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Temperature measurements in fire resistance tests on insulated and non-insulated small-scale wall assemblies protected by type X gypsum board

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**Temperature Measurements in Fire
Resistance Tests on Insulated and
Non-Insulated Small-Scale Wall
Assemblies Protected by Type X
Gypsum Board**

by M.A. Sultan, G.D. Lougheed J.W. MacLaurin and E.M.A. Denham

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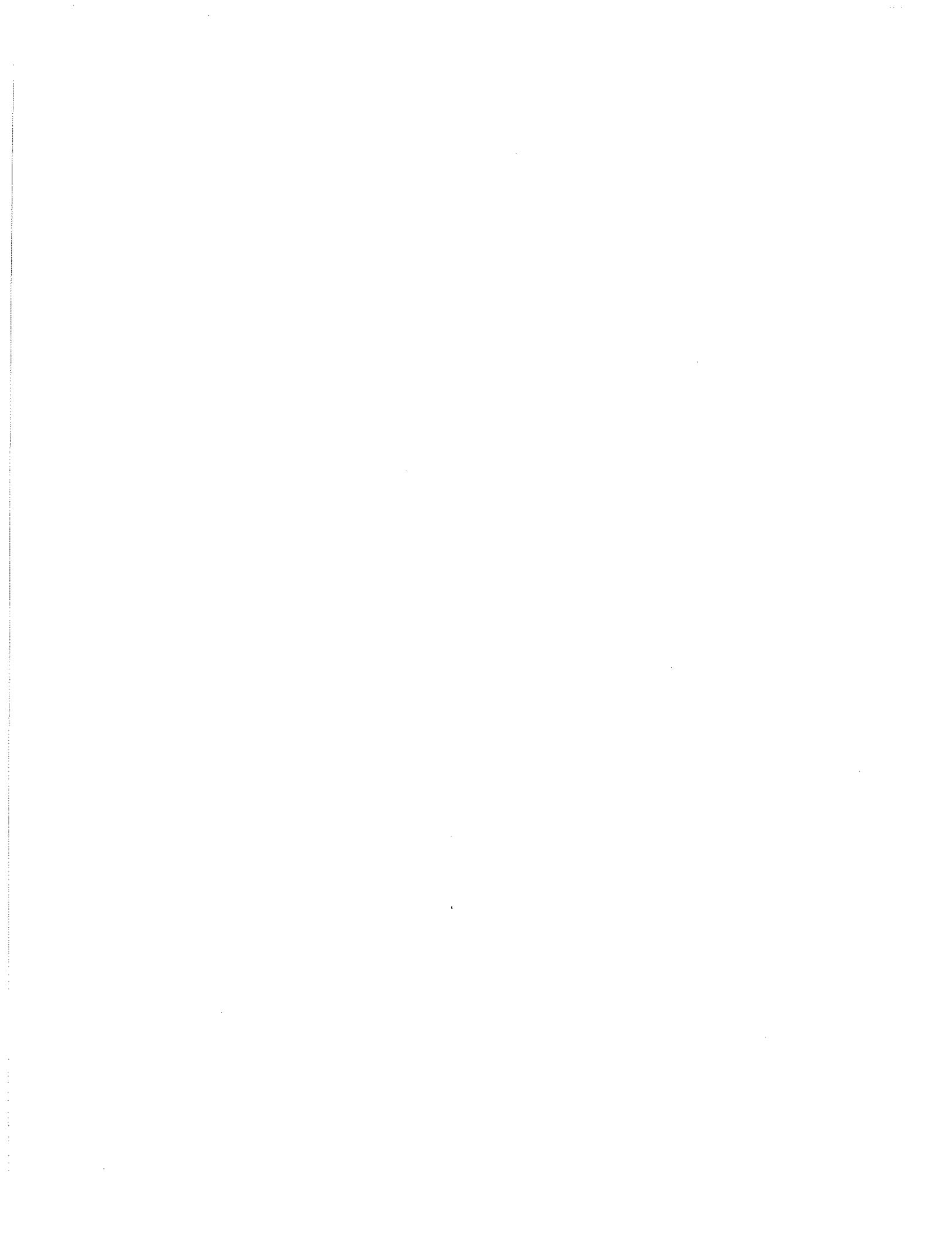
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TEMPERATURE MEASUREMENTS IN FIRE RESISTANCE TESTS ON INSULATED AND NON-INSULATED SMALL-SCALE WALL ASSEMBLIES PROTECTED BY TYPE X GYPSUM BOARD

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- Gypsum Manufacturers of Canada
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- Canadian Sheet Steel Building Institute
- Institute for Research in Construction

TEMPERATURE MEASUREMENTS IN FIRE RESISTANCE TESTS ON INSULATED AND NON-INSULATED SMALL-SCALE WALL ASSEMBLIES PROTECTED BY TYPE X GYPSUM BOARD

ABSTRACT

This report presents the temperature measurements of fire resistance tests conducted at the National Fire Laboratory (NFL) on insulated and non-insulated small-scale assemblies. Three gypsum board wall arrangements were evaluated; namely, 1x1 (one layer on the exposed and unexposed sides), asymmetrical installation 1x2 (one layer on the exposed side and two layers on the unexposed side) and 2x2 (two layers on both the exposed and unexposed sides). Tests were conducted using 15.9 mm and 12.7 mm thick gypsum board on steel studs and 12.7 mm thick gypsum board on wood studs. The effects of the installation of glass, mineral and cellulose fibre insulation in the wall cavity; insulation thickness and method of application for cellulose insulation (wet spray or blown dry) on the fire performance of small-scale tests were studied. The average temperatures on the exposed surface, as well as on the inner-surfaces, are presented.

TEMPERATURE MEASUREMENTS IN FIRE RESISTANCE TESTS ON INSULATED AND NON-INSULATED SMALL-SCALE WALL ASSEMBLIES PROTECTED BY TYPE X GYPSUM BOARD

1.0 INTRODUCTION

Recent changes to the 1990 edition of the National Building Code of Canada (NBCC) and to the CAN/CSA-A82.27-M91 Standard "Gypsum Board-Building Materials and Products" may have an effect on the fire performance of insulated and non-insulated gypsum board wall assemblies. The requirements for weight per unit area for gypsum board products has been removed as well as the addition of changes in the NBCC for higher sound transmission ratings (STC). These changes may have an impact on the fire resistance of both wall and floor assemblies referenced in Parts 3 and 9 of the NBCC, as well as the calculation methods in Chapter 2 of the Supplement to the NBCC. As a result, a Joint Research Project between the Institute for Research in Construction (IRC), National Research Council Canada (NRCC) and 7 industry partners was conducted. The primary objective of the project was to determine the impact that various changes to the Code and Standard may have on the fire resistance rating of insulated and non-insulated gypsum board wall assemblies. A number of full- and small-scale tests were conducted to study the effect of different parameters, such as the installation of resilient channels, insulation in the wall cavity, gypsum board types and symmetrical and asymmetrical gypsum board installation.

This report presents the results of small-scale fire resistance tests conducted at the National Fire Laboratory, NRCC as part of the Joint Research Project to determine the effect of the installation of glass, mineral, and cellulose fibre insulation in the wall cavity; of insulation thickness and of the method of application for cellulose insulation (wet spray or blown dry) on the fire performance of small-scale assemblies.

2.0 DESCRIPTION OF TEST ASSEMBLIES

The small-scale test furnace set-up used for the tests is shown in Figure 1.

2.1 Dimensions

Twenty-two assemblies were constructed 914 mm high by 914 mm wide with various depths depending on the number of layers of gypsum board. The specific dimensions of each assembly are given in Figures 2 to 23.

2.2 Materials

2.2.1 Gypsum Board

Type X gypsum board, conforming to the requirements of CAN/CSA-A82.27-M91 [1], was used. Type X 12.7 mm thick gypsum board has a mass/unit area of 7.83 kg/m² and Type X 15.9 mm thick gypsum board has a mass/unit area of 11.1 kg/m².

2.2.2 Framing Materials

The steel studs used were light C sections, 90 mm wide by 30 mm deep by 0.6 mm thick, manufactured in accordance with CAN/CGSB-7.1 [2]. The wood framing members were nominal 2x4's (89 mm wide by 38 mm deep) conforming to CSA 0141-1970 [3].

2.2.3 Resilient Channels

The resilient channels used in tests S-28 to S-31 (Figures 14-17 incl.) consisted of sections of 0.18 mm thick galvanized steel. These channels consisted of a 34 mm web and one flattened 18 mm flange lip (Figure 24). The flange between the web and flattened lip was perforated with 36 mm oblong holes.

2.2.4 Insulation

Three types of insulation were used: glass fibre-R12 (Supplied by Fiberglas Canada Inc., Willowdale, Ontario with a mass per unit area of 1.08 kg/m²), mineral fibre Flexibatt-R13 (Supplied by Roxal Inc., Milton, Ontario with a mass per unit area of 2.78 kg/m²) and cellulose fibre (Supplied by Thermo-Cell Insulation Ltd., Orleans, Ontario with a mass per unit area of 4.57 kg/m² and 5.25 kg/m² for wood stud and steel stud assemblies respectively). All insulations used conformed to CSA-A101 [4].

2.3 Fabrication

The small-scale assemblies were constructed using similar construction practices as employed for the full-scale fire test assemblies. The small-scale tests were non-load bearing.

2.3.1 Wood Stud Assemblies

The wood studs used were 38 mm by 89 mm (SPF No. 1 and No. 2, S-Dry, QLMA Mill Grade 149) and spaced at 400 mm O.C. To make up the required furnace width of 914 by 914 mm, an additional stud was added to each end. The top and bottom plates were then added to complete the box assembly construction.

For single layer construction, one layer of Type X gypsum board was attached to the wood studs with Type S drywall screws, 41 mm long, and spaced at 400 mm O.C. along the edges and in the field of the gypsum board. The screw heads were covered with joint compound. Screw locations and gypsum board joints for single layer construction are shown in Figure 25 [5]. The board joint was finished with fibre tape and joint compound.

In double gypsum layer construction, two layers of Type X gypsum were applied: base and face layers. The base layer was attached to the wood studs with Type S drywall screws, 41 mm long, spaced at 600 mm O.C. along the edges and in the field of the board. Screw locations and gypsum board joints for double layer construction are shown in Figure 25 [5]. The face layer was attached to both the base layer and the studs with screws, 51 mm long, spaced at 400 mm O.C. Screw heads were covered with joint compound. The joints were taped and finished with joint compound.

2.3.2 Steel Stud Assemblies

The steel studs were spaced at 600 mm O.C.. In order to complete the box assembly, two end studs were added. Top and bottom runners were also added. The end studs had a 12.7 mm gypsum facing board screwed into the web to complete the required furnace width.

For single layer construction, one layer of Type X gypsum board was attached to the steel studs with Type S drywall Screws, 25 mm long, spaced at 300 mm O.C. The screw heads were covered with joint compound. Screw locations and gypsum board

joints are shown in Figure 26 [5]. The joints were finished with fibre tape and joint compound.

In double layer construction, two layers of Type X gypsum board were applied: base and face layers. The base layer was attached to the steel studs with Type S drywall screws, 25 mm long, spaced at 300 mm O.C. along the edges and at 600 mm O.C. in the field of the board. Screw locations and gypsum board joints are shown in Figure 27 [5]. The face layer was attached to both the base layer and the studs with screws, 41 mm long, spaced at 300 mm O.C. Screw heads were covered with joint compound. All joints were taped and finished with joint compound.

2.3.3 Resilient Channel Installation

The resilient channels were attached to the exposed and/or unexposed sides of the wood studs with 25 mm long self-drilling, self-tapping steel screws spaced at 300 mm intervals. The gypsum board was attached to the channels with 32 mm long diamond-shaped point, Phillips head steel screws spaced at 300 mm O.C. along the channel (see Figure 24). Three rows of channels were installed horizontally, across the width of the assembly, at 400 mm O.C. using similar construction practices as ULC Assembly U-311 [6]. The channels were cut 39 mm shorter at both ends in order to avoid heat and flame transmission to the unexposed surface of the test assembly and the gaps were filled with strips of gypsum board screwed to the webs of the outside edge studs.

2.4 Instrumentation

Type K (20 gauge) chromel-alumel thermocouples, with a thickness of 0.91 mm, were used for measuring temperatures. Inside cavities, the thermocouples were attached to 2 wire hangers installed midway between the studs and at mid-depth of the studs at distances of 1/4 and 3/4 of the height of the wall. By providing tension to the wire hanger, the thermocouples were positioned flush with the surface of the gypsum board.

Thermocouples located on stud/gypsum board faces and between gypsum board layers were placed into position and then the gypsum board was screwed to the stud or the outer gypsum board was attached.

A number of small holes were drilled through the bottoms of the wood studs to allow the thermocouple wiring to exit the assembly.

The thermocouple locations are shown for each assembly in Figure 2 to 23.

3.0 TEST APPARATUS

The tests were carried out by exposing the assemblies to heat in a propane-heated fire brick lined furnace with an 810 by 810 mm opening. The assemblies were sealed at the edges against the furnace with ceramic fibre blanket. The furnace temperature was measured by two 20 gauge shielded thermocouples, located near the vertical centreline of the furnace and 300 mm back from the exposed surface of the assembly. The average of the two thermocouple temperatures was used to control the furnace temperature.

4.0 TEST CONDITIONS AND PROCEDURES

4.1 Fire Exposure

The ambient temperature at the start of each test was approximately 22°C. During the test, the assembly was exposed to heating, in such a way that the average temperature in the furnace followed, as closely as possible, the CAN/ULC-S101 [7] standard temperature-time curve.

4.2 Failure Criterion

The failure criteria for the small-scale tests were derived from CAN/ULC-S101-M82 [7]. The assembly was considered to have failed if a single point thermocouple temperature reading on the unexposed face (Figure 29) rose above 180°C, or the average temperature of the 5 thermocouple readings under the insulated pads on the unexposed face rose 140°C above the ambient temperature, or there was passage of flame or gases hot enough to ignite cotton waste. The tests were run beyond the failure criteria referred to above to provide additional performance data.

4.3 Recording of Results

The furnace and wall assembly temperatures were recorded at 1 minute intervals.

Individual thermocouple values and average furnace temperature values as well as the average surface temperature values for the 21 assemblies are listed in Tables 1 to 42.

5.0 RESULTS AND DISCUSSION

The results of the 22 small-scale fire tests are summarized in Table 43 in which the single point and average failure times are given for each assembly.

The average surface and inner-surface temperature distributions recorded throughout the tests are plotted in Figures 30 to 51. Detailed temperature distributions for all five thermocouples under the insulated pads on the unexposed surface are also plotted in Figures 30 to 50.

5.1 Fire performance of 1x1 (12.7 mm Thick Type X Gypsum Board) Insulated and Non-insulated Small-Scale Steel Stud Assemblies

The fire performance of the 1x1 insulated and non-insulated small-scale steel stud assemblies is shown in Figure 51.

Test S-09 (non-insulated) and Tests (insulated) S-22, S-14 and S-15 were carried out to investigate the effect of the installation of glass, mineral and cellulose fibre insulation in a wall cavity on the fire performance of 1x1 assemblies. The temperature failure criterion was reached at 46 min for Test S-09 (non-insulated), at 46 min for Test S-22 (glass fibre 90 mm thick), at 69 min for Test S-14 (mineral fibre 40 mm thick) and at 69 min for Test S-15 (cellulose fibre 90 mm thick). These results suggest that, in small-scale 1x1, 12.7 mm thick Type X gypsum board assemblies, glass fibre insulation has a neutral effect and both mineral and cellulose fibre insulations have a positive effect on the fire resistance performance compared to a non-insulated assembly.

5.2 Fire performance of 1x2 (12.7 mm Thick Type X Gypsum Board) Insulated and Non-insulated Small-Scale Steel Stud Assemblies

The fire performance of the 1x2 insulated and non-insulated small-scale steel stud assemblies is shown in Figure 52.

Test S-10 (non-insulated) and Tests S-23, S-26 and S-18 (insulated) were carried out to investigate the effects of the installation of glass, mineral and cellulose fibre insulation in the wall cavity. The temperature failure criterion was reached at 86 min for Test S-10 (non-insulated), at 88 min for Test S-23 (glass fibre insulation), at 114 min for Test S-26 (mineral fibre insulation) and at 134 min for Test S-18 (cellulose fibre insulation). These results also suggest that, in small-scale 1x2, 12.7 mm thick Type X gypsum board assemblies, glass fibre insulation has a neutral effect and both mineral and cellulose fibre insulations have a positive effect on the fire resistance performance compared to a non-insulated assembly.

5.3 Fire performance of 2x2 (12.7 mm Thick Type X Gypsum Board) Insulated and Non-insulated Small-Scale Steel Stud Assemblies

The fire performance of the 2x2 insulated and non-insulated small-scale steel stud assemblies is shown in Figure 53.

Test S-12 (non-insulated) and Tests S-25, S-27 and S-21 (insulated) were carried out to investigate the effect of the 90 mm thick installation of glass, mineral and cellulose fibre insulations in the wall cavity. The temperature failure criterion was reached at 129 min for Test S-12 (non-insulated), at 139 min for Test S-25 (glass fibre insulation), at 160 min for Test S-27 (mineral fibre insulation) and at 157 min for Test S-21 (cellulose fibre insulation). These results also suggest that, in small-scale 2x2, 12.7 mm thick Type X gypsum board assemblies, all insulations: glass, mineral and cellulose fibres have a positive effect on the fire resistance performance compared to a non-insulated assembly.

5.4 Fire performance of 1x2 (15.9 mm Thick Type X Gypsum Board) Insulated and Non-insulated Small-Scale Assemblies

The fire performance of the 1x2 insulated and non-insulated small-scale assemblies using 15.9 mm thick Type X gypsum board is shown in Figure 54.

Test S-41 (non-insulated) and Tests S-42, S-43 and S-44 (insulated) were carried out to investigate the effects of the 90 mm thick installation of mineral, cellulose and glass fibre insulation in the wall cavity. The temperature failure criterion was reached at 136 min for Test S-41 (non-insulated), at 133 min for Test S-44 (glass fibre), at 135 min for Test S-42 (mineral fibre) and at 113 min for Test S-43 (cellulose fibre). These results suggest that, in small-scale 1x2, 15.9 mm thick Type X gypsum board assemblies, both the glass and mineral fibre insulations have a neutral effect and cellulose fibre has a negative effect on fire resistance performance compared to a non-insulated assembly.

5.5 Fire performance of 1x2 (12.7 mm Thick Type X Gypsum Board) Insulated with Cellulose Fibre (Blown Dry and Wet Spray) and Non-insulated Small-Scale Assemblies

The fire performance of 1x2 assemblies insulated with blown dry and wet spray cellulose fibre insulation on small-scale assemblies is shown in Figure 55.

Test S-10 (non-insulated) and Tests S-18 (CFI, blown dry) and S-46 (CFI, wet spray) were carried out to investigate the effect of the application method (blown dry or wet spray) for cellulose fibre insulation on the fire performance of 1x2 layer, 12.7 mm

thick Type X gypsum board, small-scale wall assemblies. The temperature failure criterion was reached at 86 min for Test S-10 (non-insulated), at 95 min for Test S-46 (cellulose fibre with wet spray application) and at 134 min for Test S-18 (cellulose fibre with blown dry application). These results suggest that in small-scale 1x2, 12.7 mm thick Type X gypsum board assemblies, both types of cellulose fibre insulation have a positive effect on the fire resistance performance compared to a non-insulated assembly. The assembly with blown dry insulation provided better fire resistance performance than the assembly with wet spray insulation. This suggests that the method of application for cellulose fibre insulation has an effect on the fire performance of small-scale assemblies.

5.6 Fire Performance of 1x2 (12.7 mm Thick Type X Gypsum Board) on Wood and Steel Studs Insulated and Non-Insulated Small-Scale Assemblies

The fire performance of 1x2 layers on wood studs with resilient channels and steel studs without resilient channels on insulated and non-insulated (12.7 mm thick gypsum board) small-scale assemblies is shown in Figures 56 and 57.

Tests S-31, S-28, S-29 and S-30 (wood studs) and Tests S-10, S-23, S-26 and S-18 (steel studs) were carried out to investigate the effects of wood studs with resilient channels and steel studs without resilient channels on the fire performance of 1x2, 12.7 mm thick Type X gypsum board, small-scale wall assemblies. For wood studs with resilient channels, the temperature failure criterion was reached at 96 min for Test S-31 (non-insulated), at 92 min for Test S-28 (glass fibre insulation), at 125 min for Test S-29 (mineral fibre insulation) and at 164 min for Test S-30 (cellulose fibre insulation). For steel studs without resilient channels, the temperature failure criterion was reached at 86 min for Test S-10 (non-insulated), at 98 min for Test S-23 (glass fibre insulation), at 114 min for Test S-26 (mineral fibre insulation) and at 134 min for Test S-18 (cellulose fibre insulation). These results suggest that, in insulated and non-insulated small-scale, 1x2 12.7 mm thick Type X gypsum board assemblies, the fire resistance performance of assemblies with wood studs and resilient channels is slightly better than assemblies with steel studs.

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Table 1. Temperatures Measured in Assembly S-09, Steel Stud, 1x1 Gypsum Board Layers, No Insulation

Table 2. Average Temperatures Measured in Assembly S-09, Steel Stud, 1x1 Gypsum Board Layers, No Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/SStd. (Exp.) Av(10,11,20,21)	BL/Cav. (Exp.) Av(16,17)	Mid. SStd. Av(12,13,22)	BL/SStd. (UnExp.) Av(14,15,23)	BL/Cav. (UnExp.) Av(18,19)	UnExp. Av(1,2,3,4,5)
0	50.4	31.6	25.5	30.3	28.4	24.1	24.0
1	127.1	31.6	25.5	30.3	28.5	24.0	23.9
2	242.3	47.4	39.2	40.0	35.8	33.9	25.0
3	359.7	63.2	52.9	49.7	43.0	43.7	26.2
4	473.5	79.0	66.6	59.3	50.3	53.6	27.3
5	557.9	94.7	80.2	68.8	57.5	53.4	28.4
6	592.4	95.4	88.5	74.8	65.0	58.7	32.9
7	626.5	96.0	96.6	78.7	70.2	73.5	38.3
8	658.9	96.4	102.6	81.4	74.2	78.2	43.9
9	691.6	98.6	106.7	83.7	77.4	81.6	48.7
10	708.4	101.4	109.5	86.1	80.1	84.2	53.0
11	719.2	109.5	112.4	88.6	82.2	86.4	57.2
12	730.3	120.7	117.5	92.2	84.2	89.2	59.8
13	742.2	137.7	132.3	96.7	86.0	94.1	62.7
14	751.7	165.3	165.3	105.3	87.7	105.4	63.9
15	759.0	199.8	206.6	119.8	91.8	123.5	65.2
16	766.9	235.6	242.5	140.0	100.9	147.0	67.4
17	773.6	268.5	274.0	164.9	116.0	173.2	69.4
18	779.7	299.3	298.9	190.7	137.3	194.3	71.3
19	788.7	324.1	315.8	212.4	155.9	210.2	74.2
20	792.6	346.3	329.6	229.4	171.8	224.0	75.1
21	798.4	365.8	341.3	242.7	183.8	235.3	77.1
22	804.7	381.9	350.4	254.2	194.1	247.4	80.7
23	808.3	395.7	358.1	264.3	203.4	257.8	84.2
24	817.0	409.0	365.2	273.3	211.9	267.1	87.1
25	819.2	418.4	372.3	281.5	220.0	276.9	90.7
26	825.0	426.0	381.0	289.2	227.4	286.9	93.6
27	828.3	422.4	***	317.3	263.8	***	95.7
28	834.0	438.9	394.5	303.4	241.2	304.9	97.2
29	837.6	446.3	401.8	310.3	248.1	314.6	98.9
30	841.0	450.9	408.8	316.8	255.1	323.3	99.9
31	844.6	441.8	415.4	323.4	262.3	332.2	100.7
32	849.6	446.9	422.7	330.0	269.9	341.1	101.7
33	851.4	452.8	430.0	336.8	277.0	352.1	102.2
34	857.7	458.2	435.5	343.4	284.4	361.0	103.3
35	860.5	464.4	442.9	350.2	292.4	371.7	103.6
36	862.6	471.6	450.0	357.2	300.3	381.4	105.0
37	865.8	476.3	457.1	364.0	308.3	391.4	105.7
38	868.1	483.4	464.6	370.8	316.4	401.8	106.5
39	872.2	490.1	471.8	378.0	324.9	411.9	108.0
40	876.5	497.3	479.9	385.4	333.6	422.2	109.7
41	877.7	503.6	486.9	392.9	342.3	430.9	111.7
42	881.0	509.8	494.2	400.5	351.1	439.9	114.0
43	885.0	515.0	500.7	407.9	360.1	449.3	118.4
44	887.4	519.4	507.0	415.1	369.0	457.9	124.7
45	889.9	523.3	515.9	422.4	378.0	464.1	130.0
46	893.1	527.1	520.9	429.6	387.2	468.6	140.9
47	894.2	529.2	529.6	437.2	396.9	475.6	153.1
48	898.0	532.8	531.5	445.8	407.5	480.4	166.8
49	900.4	535.2	536.8	453.0	418.1	490.8	183.1
50	902.3	530.1	542.6	457.8	426.1	501.6	201.3
51	904.3	533.6	548.0	464.3	434.7	513.9	222.1

Table 3. Temperatures Measured in Assembly S-10, Steel Studs, 1x2 Gypsum Board Layers, No Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	50.0	24.9	26.6	26.1	25.8	27.0	23.1	24.3	24.0	25.1	40.1	37.3	37.4	34.2	34.3	31.2	30.1	27.8	39.2	38.5	37.2
1	111.2	26.6	26.9	26.4	26.0	27.2	23.2	24.4	24.1	25.3	40.1	37.6	37.5	34.0	34.3	31.6	30.1	27.8	39.2	38.5	37.3
2	224.7	26.5	26.9	26.4	26.0	27.1	23.2	24.4	24.0	25.2	45.8	39.4	38.1	34.4	34.6	31.4	30.2	27.9	43.3	42.5	39.3
3	326.2	25.1	26.8	26.3	25.9	27.1	23.1	24.3	23.9	25.1	74.0	50.0	46.0	36.1	38.4	32.9	30.5	28.2	56.7	53.8	48.7
4	434.5	25.9	27.0	26.4	26.0	27.2	23.1	24.3	23.9	25.3	97.6	73.4	65.4	44.5	53.1	39.5	30.7	28.1	71.5	66.9	66.1
5	531.6	26.0	27.1	26.5	26.1	27.3	23.3	24.4	24.0	25.4	97.6	98.7	77.6	58.7	68.1	50.5	32.5	28.6	81.4	77.0	76.9
6	561.6	25.4	27.3	26.5	26.1	27.4	23.6	24.6	24.1	25.6	96.6	98.6	82.7	68.3	74.8	60.6	36.4	30.2	91.1	84.6	81.7
7	603.6	27.4	28.0	27.0	26.5	28.2	23.9	24.4	24.0	26.1	96.8	97.7	84.9	75.7	79.3	67.7	40.8	32.2	99.7	92.2	85.8
8	636.6	28.1	29.1	27.6	27.0	29.2	24.4	25.9	24.8	27.1	96.5	97.4	87.4	79.9	83.0	73.4	45.0	35.1	105.9	100.5	91.5
9	665.6	28.1	30.6	28.4	27.6	30.7	24.7	26.7	25.4	26.7	96.8	97.0	89.3	82.9	85.2	77.6	50.4	38.0	109.8	106.9	95.9
10	696.4	29.8	32.7	29.8	28.8	32.8	25.8	28.7	26.0	30.1	105.9	97.6	89.7	85.5	86.6	80.3	54.4	43.2	112.0	110.5	98.6
11	712.3	32.7	35.4	31.7	30.4	35.4	26.4	30.1	27.6	32.6	123.7	98.6	90.1	87.3	87.5	82.6	57.9	45.4	114.0	113.3	100.7
12	721.3	34.6	38.3	33.9	32.3	38.1	28.6	31.9	29.2	35.1	148.0	107.7	97.1	89.4	87.8	84.2	61.1	49.3	117.6	116.2	102.9
13	731.7	36.9	41.2	36.4	34.4	40.9	29.9	34.1	30.6	37.6	180.4	128.2	103.4	92.1	88.1	85.0	63.7	54.0	128.4	120.7	108.1
14	742.0	39.8	44.2	39.3	36.9	43.7	30.5	36.1	32.3	40.3	211.0	154.8	112.8	97.2	87.8	85.8	65.8	57.0	157.8	137.9	123.8
15	753.9	42.8	47.1	42.3	39.5	46.4	30.2	37.2	33.4	42.4	232.3	180.1	129.7	106.3	87.1	85.5	67.5	59.5	194.7	177.6	148.5
16	761.3	45.4	49.8	45.0	41.7	48.9	32.4	39.8	36.0	45.0	265.4	208.3	151.6	120.4	92.7	86.7	69.0	61.4	227.1	219.9	175.2
17	768.0	48.8	52.5	47.5	45.1	52.0	34.6	42.7	38.6	47.3	294.7	241.6	177.8	140.6	111.0	96.5	71.1	62.8	258.2	257.8	198.2
18	774.5	50.9	55.1	50.0	47.0	54.5	33.8	42.8	39.0	49.4	325.1	275.5	203.6	165.5	130.1	111.7	74.7	64.8	280.6	289.6	215.2
19	781.9	53.9	58.0	53.2	49.0	55.8	35.3	44.2	40.1	50.7	368.0	303.5	224.0	188.6	148.1	127.5	77.2	67.6	292.0	310.8	228.2
20	788.4	56.6	61.1	55.7	51.8	59.6	35.8	46.3	40.9	53.3	405.6	328.9	240.8	205.7	159.6	141.9	80.8	70.6	304.1	325.6	241.8
21	794.6	59.4	63.9	58.7	54.8	62.9	37.8	48.7	43.7	55.7	429.6	352.2	254.3	219.5	169.9	154.3	84.7	74.1	317.2	338.0	256.4
22	798.6	62.3	65.8	61.7	58.2	65.0	39.4	51.6	45.9	58.4	450.3	377.8	266.8	231.2	180.1	163.3	87.6	78.5	323.9	349.2	266.1
23	805.8	64.9	67.5	64.3	60.7	65.3	38.9	51.9	47.5	59.8	464.9	397.9	277.6	242.0	190.6	171.7	89.9	82.7	335.6	359.1	276.8
24	809.7	66.5	68.9	66.1	63.1	67.8	41.1	54.4	50.9	61.7	477.7	417.6	286.5	252.1	199.9	180.1	92.1	85.7	339.0	366.9	286.5
25	815.5	67.6	70.1	67.5	65.0	70.1	39.7	54.3	50.1	63.4	498.0	433.5	295.1	260.9	207.8	188.7	94.2	88.1	346.6	371.4	296.0
26	820.9	68.9	70.9	68.6	66.6	71.9	43.6	57.5	51.6	65.1	510.5	448.8	303.5	269.1	215.6	197.2	96.2	90.1	353.8	373.5	305.0
27	824.1	70.6	71.7	69.6	68.1	72.2	39.8	56.5	51.5	65.5	527.1	461.0	311.4	276.4	222.7	205.3	97.9	92.0	359.7	378.2	314.8
28	828.5	71.2	72.2	70.3	69.3	73.6	42.3	59.4	54.2	66.9	538.6	472.5	319.4	283.6	230.2	212.7	99.6	93.7	366.9	383.7	323.1
29	832.6	72.2	72.7	71.1	70.4	74.1	39.7	58.8	53.4	67.0	582.0	481.1	326.7	290.9	238.1	220.2	100.8	95.2	375.9	390.1	311.7
30	837.6	73.0	73.4	71.8	71.2	74.4	38.7	58.2	53.7	67.5	591.3	491.2	334.9	298.4	246.3	227.7	102.2	96.5	385.1	396.0	339.6
31	842.5	74.3	73.7	72.6	72.0	72.8	34.1	58.0	50.7	68.1	602.4	505.4	342.3	306.1	254.6	235.2	103.1	97.8	391.5	402.5	347.6
32	845.3	74.9	74.0	73.1	72.6	72.9	43.5	58.7	46.2	68.6	615.8	523.2	349.5	313.8	263.0	243.1	104.1	98.7	401.1	408.1	356.5
33	848.6	74.3	73.9	73.2	73.0	75.2	47.2	58.5	51.8	68.5	624.8	537.8	356.8	321.7	271.4	251.2	105.0	99.8	409.4	414.6	365.6
34	853.0	75.4	74.0	73.5	73.3	73.0	48.2	59.2	52.5	69.1	629.9	549.3	363.8	329.6	279.9	259.9	105.8	100.8	420.8	420.3	374.4
35	856.7	74.5	74.0	73.4	73.7	75.6	48.4	58.7	53.9	67.8	638.9	565.1	371.4	337.4	288.6	268.6	106.8	101.6	427.6	426.0	382.4
36	859.4	75.6	74.1	73.6	74.0	73.5	47.0	58.9	54.2	69.2	648.0	575.6	378.5	345.1	297.9	277.4	107.6	102.8	436.8	432.0	392.0
37	863.0	74.7	74.0	73.6	74.2	75.8	49.0	58.4	53.2	69.5	674.9	583.4	387.6	353.0	308.0	286.6	108.6	103.4	446.5	438.4	402.3
38	866.2	75.5	74.3	74.0	74.4	74.1	49.1	59.8	55.6	69.6	688.9	593.1	398.1	361.1	319.7	296.3	109.3	104.5	458.9	445.5	418.0
39	869.3	74.7	74.3	74.0	74.5	75.3	48.7	58.0	53.8	69.4	701.1	607.1	407.6	369.2	331.0	305.6	110.4	105.2	470.5	451.8	436.8
40	872.4	74.4	74.6	74.1	74.3	75.6	47.9	57.8	53.1	68.7	709.4	618.6	415.2	377.4	340.8	314.7	111.5	106.3	480.0	457.8	449.0
41	875.5	74.6	75.2	74.4	74.2	74.7	57.2	52.6	56.9	71.6	628.3	424.2	386.5	351.3	324.9	112.6	107.2	490.9	463.9	462.5	
42	878.9	74.4	75.9	74.7	74.4	74.7	48.5	59.1	54.4	68.0	715.2	637.0	432.5	395.3	362.2	335.1	113.8	108.3	502.0	470.3	473.5
43	880.9	73.7	76.9	75.2	74.5	76.1	47.9	57.9	52.5	68.4	734.0	641.7	441.4	403.7	373.3	345.0	115.2	109.2	512.5	476.6	487.1
44	883.7	74.1	78.2	76.0	74.6	75.0	49.2	58.2	52.5	69.0	738.2	646.1	451.1	410.5	385.0	353.3	116.7	110.5	520.4	483.5	495.7
45	886.5	74.3	79.4	76.8	74.8	74.2	47.5	56.0	49.4	68.2	743.3	652.4	459.2	416.4	395.6	361.6	118.4	115.5	528.8	490.1	512.6
46	889.5	73.7	80.4	77.5	75.0	75.2	49.0	58.8	52.7	68.8	746.7	663.4	467.1	423.1	405.8	370.8	120.6	112.5	532.4	496.6	524.0
47	891.3	75.1	81.9	78.8	75.2	75.3	47.6	58.1	51.8	69.3	750.0	668.8	474.9	432.1	416.6	380.3	123.3	113.7	543.4	503.9	533.9
48	894.6	76.9	83.9	79.9	75.4	77.3	49.0	58.2	50.7	69.5	757.6	671.3	482.4	437.4	426.5	389.1	127.7	114.8	552.9	511.6	542.9
49	896.8	80.4	86.2	81.0	75.9	80.7	50.0	58.9	51.5	70.3	762.1	673.4	490.9	441.8	436.2	396.1	132.5	116.1	563.1	520.4	550.0
50	899.4	85.5	89.7	82.5																	

Table 3. Temperatures Measured in Assembly S-10, Steel Studs, 1x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	917.6	101.8	102.0	98.1	96.2	102.0	54.8	64.5	53.8	76.7	773.3	700.2	545.0	499.2	505.3	466.0	209.9	173.5	605.4	570.7	602.7
59	919.3	102.7	102.6	99.2	97.5	103.1	59.7	68.1	58.3	77.2	788.9	703.7	549.4	505.1	510.1	472.9	216.6	181.8	607.6	573.9	606.9
60	921.2	103.6	103.5	100.1	98.8	103.6	58.1	67.6	57.8	77.9	768.0	706.9	554.4	510.5	514.2	478.9	222.6	190.2	610.9	578.0	607.4
61	923.6	104.3	104.3	100.9	99.8	104.2	58.7	68.3	59.3	78.3	770.8	711.3	558.6	515.7	518.1	484.6	228.2	198.2	615.8	582.2	608.9
62	925.6	105.0	104.8	101.5	100.9	104.6	59.6	68.7	61.6	79.1	774.0	713.6	562.7	520.5	522.4	490.0	233.7	205.6	619.7	588.2	612.2
63	927.2	105.2	104.7	102.0	101.6	105.6	60.7	67.4	59.7	79.6	773.1	715.1	568.0	525.1	527.1	495.2	239.2	212.4	622.6	588.9	614.1
64	929.5	106.0	105.5	102.5	102.2	105.3	63.5	70.7	64.4	80.6	771.8	717.2	571.9	529.8	531.1	499.7	244.8	218.6	626.1	593.8	617.0
65	931.4	106.8	106.1	103.0	102.7	105.5	60.4	70.0	62.3	79.3	766.8	719.1	576.1	534.8	535.4	504.7	250.2	223.8	629.2	597.6	618.6
66	933.5	106.4	106.3	103.4	103.1	107.0	62.5	71.4	65.3	80.6	765.5	721.1	579.4	539.9	538.8	509.7	255.8	228.5	633.2	601.4	621.0
67	935.0	107.1	107.0	104.0	103.6	64.6	72.2	64.0	82.8	763.8	723.5	583.0	544.7	542.7	514.6	261.3	233.1	634.6	604.4	622.6	
68	936.8	108.4	107.8	104.6	104.0	106.9	64.9	75.0	68.0	81.9	763.9	726.2	586.8	549.3	546.9	518.7	267.0	237.6	634.7	607.2	624.8
69	938.3	107.8	108.2	105.1	104.4	108.9	66.7	75.8	67.6	83.8	761.8	728.7	591.0	553.9	551.5	522.5	272.8	241.7	637.6	610.8	627.8
70	939.9	108.9	109.0	105.7	104.7	109.1	67.4	77.6	70.8	85.3	780.1	730.9	595.7	558.4	556.0	526.1	278.5	245.9	638.2	614.2	630.5
71	942.7	110.3	109.7	106.4	105.4	109.6	67.4	77.2	68.9	86.6	765.4	733.5	600.8	562.5	563.3	530.0	284.0	250.2	643.0	617.2	632.9
72	943.2	109.9	110.3	107.0	105.9	111.1	70.0	79.9	72.6	87.8	765.2	736.0	605.4	566.4	568.8	534.4	289.7	254.2	646.6	620.3	634.6
73	945.2	111.1	111.1	107.8	106.5	112.1	66.1	77.2	68.7	87.0	764.4	737.3	607.1	570.6	572.2	538.8	295.6	258.2	652.8	623.7	637.4
74	946.8	112.1	111.8	108.4	107.3	113.3	71.1	81.5	73.1	90.2	763.7	739.8	609.2	575.0	575.6	549.4	301.1	262.1	659.8	627.5	641.2
75	948.2	113.3	112.8	109.1	108.0	114.1	70.0	82.3	74.6	88.8	763.1	746.0	611.7	579.1	579.9	548.1	306.7	265.9	660.2	630.8	646.5
76	950.3	113.1	114.2	109.8	109.0	116.8	73.4	84.8	77.6	93.8	760.2	751.5	614.9	582.9	584.1	553.2	311.8	268.4	658.2	633.7	653.0
77	952.1	116.3	116.6	111.0	110.2	117.0	74.5	86.6	78.3	94.7	760.6	754.2	617.6	587.2	588.6	558.1	316.7	273.2	662.5	637.2	660.5
78	953.8	118.3	120.5	112.5	111.2	118.7	71.8	85.5	77.1	95.0	762.6	749.5	621.2	591.6	592.9	563.4	321.6	276.9	647.7	614.2	671.3
79	955.3	121.4	125.2	114.2	112.3	121.7	75.5	87.5	77.2	96.2	769.2	742.5	622.9	596.4	595.9	569.4	326.5	280.6	657.3	645.3	674.4
80	957.1	125.9	130.4	116.5	113.2	128.5	76.0	88.6	77.8	98.4	773.5	740.2	624.4	600.1	598.5	574.7	331.9	284.4	664.8	647.6	679.7
81	958.7	131.6	141.7	120.7	114.3	140.0	78.2	89.6	79.9	99.4	765.6	740.0	625.6	603.6	600.3	579.6	337.8	288.5	668.6	650.3	681.9
82	959.5	142.9	149.8	125.3	115.7	146.8	79.5	86.9	76.9	97.8	764.8	739.3	628.3	608.0	603.2	584.9	344.0	292.6	668.3	653.4	678.7
83	961.6	151.4	156.3	133.1	117.5	153.5	76.0	88.1	77.5	99.0	766.4	739.7	631.2	611.7	606.7	589.7	349.9	296.8	671.8	656.4	679.5
84	963.6	156.8	176.7	142.9	120.3	158.7	76.0	89.2	79.3	102.0	792.5	737.9	635.0	614.8	611.0	594.2	355.5	301.0	672.1	659.2	681.5
85	964.9	172.9	195.7	151.1	126.8	170.8	77.1	89.6	78.1	101.6	798.5	737.2	641.6	617.2	616.7	598.4	360.6	304.0	669.7	662.0	681.1
86	966.6	192.6	213.3	167.4	132.5	189.6	79.8	91.3	76.4	105.1	781.2	737.5	647.2	620.1	622.0	602.0	365.4	311.0	663.5	663.9	679.4
87	967.7	208.0	230.5	186.9	135.2	204.9	83.9	96.1	82.7	109.6	779.0	737.0	652.2	622.3	627.1	605.7	370.5	313.0	672.4	666.6	684.5
88	970.0	225.3	248.3	204.9	139.4	219.6	86.5	98.7	84.8	108.3	782.2	736.8	655.6	624.5	632.3	609.0	375.0	319.0	674.4	668.9	688.6
89	970.2	241.9	267.6	222.1	146.5	233.5	89.6	99.7	84.8	111.4	835.8	735.3	664.5	626.0	640.4	611.5	379.6	323.1	684.5	671.1	692.4
90	971.9	256.3	289.9	239.7	152.4	247.8	95.5	101.9	84.4	115.1	837.2	735.6	669.7	627.4	646.5	614.4	384.3	325.4	690.7	674.0	694.9

Table 3. Temperatures Measured in Assembly S-10, Steel Studs, 1x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
0	50.0	33.1	29.2	27.8	40.0	36.5	37.4	34.1	34.3	31.4	29.4	27.8	***	***	***	***	***	***
1	111.2	33.2	29.2	27.8	40.1	36.6	37.4	34.2	34.3	31.4	29.4	27.8	***	***	***	***	***	***
2	224.7	33.7	29.3	27.8	47.7	40.5	38.2	34.2	34.4	31.8	29.8	27.9	***	***	***	***	***	***
3	326.2	37.2	29.5	27.9	67.0	53.4	44.7	35.9	38.1	32.9	29.0	27.8	***	***	***	***	***	***
4	434.5	48.0	30.1	28.1	85.9	71.5	62.1	44.5	49.0	37.8	29.9	28.0	***	***	***	***	***	***
5	531.6	60.7	32.3	28.9	92.5	87.0	76.6	57.4	62.7	47.1	31.6	28.6	***	***	***	***	***	***
6	561.5	69.2	36.9	30.6	94.9	92.2	82.4	68.1	71.3	56.7	34.7	30.3	***	***	***	***	***	***
7	603.6	74.4	42.9	33.7	96.2	93.9	85.0	74.7	75.4	63.7	39.6	32.5	***	***	***	***	***	***
8	636.6	78.8	48.4	37.6	99.3	95.2	86.5	79.6	78.6	69.4	44.5	35.5	***	***	***	***	***	***
9	665.6	82.0	53.5	42.0	102.3	96.8	87.7	82.9	81.3	73.9	49.1	38.9	***	***	***	***	***	***
10	696.4	84.3	58.1	46.6	105.8	99.2	89.1	85.2	83.2	77.7	53.5	43.0	***	***	***	***	***	***
11	712.3	85.6	61.5	51.1	114.5	105.3	91.1	87.3	84.6	80.2	57.3	46.6	***	***	***	***	***	***
12	721.3	87.2	64.3	54.7	121.8	116.3	93.8	89.4	85.8	82.3	60.5	49.6	***	***	***	***	***	***
13	731.7	91.9	66.8	57.9	133.3	122.9	100.7	92.1	86.0	83.5	63.2	53.8	***	***	***	***	***	***
14	742.0	97.9	68.5	60.6	163.9	134.2	110.7	96.7	86.5	83.9	65.2	56.7	***	***	***	***	***	***
15	753.8	110.2	70.0	62.8	202.1	166.5	129.8	105.5	90.8	85.4	66.8	58.7	***	***	***	***	***	***
16	761.3	128.4	72.0	64.8	250.7	205.8	154.6	121.0	99.4	90.7	68.9	60.5	***	***	***	***	***	***
17	768.0	152.1	74.5	68.6	288.9	239.9	182.4	140.6	112.8	96.9	72.0	63.0	***	***	***	***	***	***
18	774.5	176.2	77.3	71.0	316.4	269.4	209.4	160.2	130.0	104.2	75.3	65.7	***	***	***	***	***	***
19	781.9	196.1	80.2	73.7	338.9	293.1	231.5	179.1	148.1	115.0	78.2	68.8	***	***	***	***	***	***
20	788.4	210.1	81.3	77.1	358.0	311.0	248.8	195.0	163.1	127.2	80.6	72.2	***	***	***	***	***	***
21	794.6	220.0	82.7	79.0	374.6	325.9	262.6	208.4	175.1	139.2	83.2	75.5	***	***	***	***	***	***
22	798.6	232.8	85.0	80.4	387.4	339.6	274.8	220.5	185.1	149.5	85.5	78.6	***	***	***	***	***	***
23	805.8	243.5	87.7	82.3	397.8	351.5	285.2	231.5	194.0	157.3	87.6	81.7	***	***	***	***	***	***
24	809.7	253.7	89.9	84.4	407.1	362.6	294.3	241.7	202.3	164.7	89.5	84.2	***	***	***	***	***	***
25	815.5	260.8	91.8	86.4	415.5	370.5	302.0	252.2	210.1	173.6	91.5	86.3	***	***	***	***	***	***
26	820.9	267.7	93.4	88.1	423.5	378.7	309.7	261.9	217.4	182.0	93.5	88.2	***	***	***	***	***	***
27	824.1	275.9	94.8	89.5	430.3	386.3	316.3	270.6	223.7	189.9	95.4	90.0	***	***	***	***	***	***
28	828.5	286.3	96.0	90.5	436.8	394.0	322.5	278.3	229.4	197.0	96.8	91.4	***	***	***	***	***	***
29	832.6	293.6	97.1	91.5	443.0	403.5	329.1	285.4	235.0	203.5	98.1	92.8	***	***	***	***	***	***
30	837.8	304.7	98.1	92.3	448.6	414.5	335.6	292.4	240.8	209.6	99.3	94.1	***	***	***	***	***	***
31	842.5	317.3	99.0	92.8	453.9	428.2	342.1	299.0	246.6	215.4	100.3	95.2	***	***	***	***	***	***
32	845.3	326.0	99.7	93.5	458.2	435.9	348.0	305.0	252.4	220.9	101.4	96.4	***	***	***	***	***	***
33	849.6	338.3	100.3	93.9	462.7	441.5	354.3	311.0	258.6	226.4	102.2	97.5	***	***	***	***	***	***
34	853.0	347.4	101.1	94.4	466.9	446.5	360.1	315.4	264.8	231.8	103.1	98.4	***	***	***	***	***	***
35	856.7	352.5	101.8	95.1	471.7	452.2	366.2	320.5	271.0	237.2	104.0	99.6	***	***	***	***	***	***
36	859.4	366.2	102.5	95.2	476.4	458.0	373.1	326.1	277.1	243.0	104.9	100.5	***	***	***	***	***	***
37	863.0	375.4	103.0	95.6	481.0	462.8	379.5	331.8	283.9	248.5	105.8	101.7	***	***	***	***	***	***
38	866.2	385.1	103.3	95.8	486.4	468.5	386.7	337.6	290.8	254.8	106.7	102.8	***	***	***	***	***	***
39	869.3	394.2	103.9	96.2	490.8	473.0	394.9	343.5	298.0	260.7	107.8	104.1	***	***	***	***	***	***
40	872.4	406.5	105.0	96.7	495.4	477.4	402.2	349.0	305.6	266.7	108.8	105.4	***	***	***	***	***	***
41	875.5	409.9	106.6	97.5	499.4	480.1	408.1	356.8	312.8	274.1	110.0	106.8	***	***	***	***	***	***
42	878.9	418.7	109.5	98.4	502.9	484.6	414.1	365.2	319.9	282.1	111.6	108.7	***	***	***	***	***	***
43	880.9	426.5	114.0	99.7	506.3	489.0	421.0	372.8	327.5	289.4	113.3	110.9	***	***	***	***	***	***
44	883.7	433.2	119.3	101.2	509.6	493.7	428.2	380.2	335.5	296.8	115.6	113.1	***	***	***	***	***	***
45	886.5	442.0	129.8	103.5	511.8	497.7	436.6	387.6	344.4	304.3	118.9	115.6	***	***	***	***	***	***
46	889.5	450.9	138.4	107.1	513.6	501.2	445.3	394.8	354.0	311.4	125.1	118.6	***	***	***	***	***	***
47	891.3	460.7	155.0	110.5	515.9	505.4	452.3	401.9	363.1	318.7	133.8	121.8	***	***	***	***	***	***
48	894.6	471.2	171.4	117.9	518.1	507.7	457.5	408.3	370.5	325.8	142.6	125.8	***	***	***	***	***	***
49	896.8	481.8	184.6	125.0	520.5	509.7	462.1	415.4	377.8	333.3	151.4	130.0	***	***	***	***	***	***
50	899.4	492.9	193.7	133.3	523.9	511.5	469.8	422.2	386.2	340.8	161.1	134.6	***	***	***	***	***	***
51	901.4	502.8	200.2	146.0	527.8	513.0	475.1	429.4	393.9	348.7	170.4	138.5	***	***	***	***	***	***
52	904.2	510.4	208.7	158.1	531.0	514.9	478.9	436.3	400.6	357.2	180.7	143.8	***	***	***	***	***	***
53	906.7	517.0	217.9	166.8	534.7	517.5	483.4	442.9	407.8	365.6	191.8	148.5	***	***	***	***	***	***
54	908.4	520.6	226.8	171.7	538.6	520.8	489.1	449.5	415.0	374.0	198.6	153.0	***	***	***	***	***	***
55	911.7	525.6	235.6	177.7	542.4	524.5	493.4	455.6	422.2	381.2	206.2	158.6	***	***	***	***	***	***
56	912.6	532.6	243.8	186.0	546.3	528.7	497.9	461.0	428.9	388.4	213.8	165.6	***	***	***	***	***	***
57	915.3	539.8	252.0	194.4	550.6	532.8	503.3	467.9	435.6	394.9	222.9	174.0	***	***	***	***	***	***

Table 3. Temperatures Measured in Assembly S-10, Steel Studs, 1x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																	
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	
58	917.6	547.7	261.0	202.5	555.1	537.4	508.9	473.4	442.2	401.6	232.6	181.3	***	***	***	***	***	***	
59	919.3	552.6	273.8	210.3	559.8	542.8	513.7	479.0	446.2	410.7	245.2	189.2	***	***	***	***	***	***	
60	921.2	559.3	287.0	217.3	564.5	548.2	517.9	484.1	453.9	418.0	253.5	196.7	***	***	***	***	***	***	
61	923.6	565.4	299.7	224.3	568.9	553.4	522.3	489.2	459.1	424.9	262.6	203.8	***	***	***	***	***	***	
62	925.6	571.5	311.9	231.5	573.2	558.8	527.2	494.2	464.5	432.0	270.8	210.3	***	***	***	***	***	***	
63	927.2	574.6	323.5	239.3	577.4	563.9	532.4	500.0	469.7	439.0	279.0	217.0	***	***	***	***	***	***	
64	929.5	581.3	334.8	250.3	581.6	569.2	536.7	505.7	474.7	446.0	284.9	223.1	***	***	***	***	***	***	
65	931.4	585.7	345.5	261.3	585.5	574.9	541.2	511.1	479.6	452.8	295.2	228.9	***	***	***	***	***	***	
66	933.5	589.3	354.8	272.2	589.0	580.2	544.9	516.2	484.0	458.6	299.1	235.1	***	***	***	***	***	***	
67	935.0	590.7	362.8	282.2	591.8	585.3	548.4	520.4	487.5	464.0	305.7	241.3	***	***	***	***	***	***	
68	936.8	594.5	368.6	291.6	594.4	590.1	550.6	524.6	490.5	468.9	305.7	247.3	***	***	***	***	***	***	
69	938.3	597.7	372.4	300.4	596.7	594.7	553.4	529.6	493.7	473.1	310.4	253.9	***	***	***	***	***	***	
70	939.9	601.3	377.1	308.8	599.4	599.6	556.1	534.4	496.9	477.2	314.8	260.6	***	***	***	***	***	***	
71	942.7	602.4	381.7	317.7	601.9	604.5	558.9	539.3	500.1	482.0	320.0	267.2	***	***	***	***	***	***	
72	943.2	604.5	386.2	326.1	604.3	609.1	562.4	544.5	503.4	486.6	326.0	273.9	***	***	***	***	***	***	
73	945.2	609.4	391.2	333.2	607.2	613.8	567.1	549.7	507.5	491.9	332.5	280.9	***	***	***	***	***	***	
74	946.8	613.5	396.6	339.7	610.3	618.2	571.6	554.8	512.4	498.0	339.5	288.6	***	***	***	***	***	***	
75	948.2	617.4	402.2	345.7	612.9	622.7	575.8	560.9	516.7	505.0	346.6	297.0	***	***	***	***	***	***	
76	950.3	620.8	408.1	351.8	614.2	627.1	579.2	566.8	520.5	511.9	354.3	306.5	***	***	***	***	***	***	
77	952.1	623.5	414.8	356.5	616.8	631.5	584.2	572.6	525.7	517.6	361.3	316.0	***	***	***	***	***	***	
78	953.8	627.3	421.8	362.1	619.4	636.4	588.1	579.5	531.3	524.0	368.9	325.9	***	***	***	***	***	***	
79	955.3	631.4	428.1	367.7	623.3	641.5	593.7	586.5	537.9	530.8	375.3	336.3	***	***	***	***	***	***	
80	957.1	632.3	434.5	373.6	626.7	646.1	597.7	589.8	543.9	536.7	382.4	347.5	***	***	***	***	***	***	
81	958.7	634.4	441.3	378.6	629.9	650.5	602.4	594.6	550.2	542.9	389.3	357.2	***	***	***	***	***	***	
82	959.5	638.1	450.7	382.6	631.8	654.8	604.2	601.9	554.9	550.4	396.7	368.1	***	***	***	***	***	***	
83	961.8	640.9	457.1	387.9	632.8	657.9	604.8	607.1	558.7	558.0	404.0	378.2	***	***	***	***	***	***	
84	963.6	643.6	462.5	394.4	638.0	659.2	606.8	609.5	562.9	564.7	410.6	387.9	***	***	***	***	***	***	
85	964.9	645.2	467.2	402.9	641.3	659.5	609.5	612.9	566.7	571.4	417.6	398.3	***	***	***	***	***	***	
86	966.6	647.5	472.0	406.5	642.8	659.6	612.1	615.5	570.7	577.7	424.1	404.8	***	***	***	***	***	***	
87	967.7	650.1	477.2	413.6	644.6	659.4	614.3	617.8	574.6	582.5	430.2	413.9	***	***	***	***	***	***	
88	970.0	652.3	482.8	418.6	646.8	660.6	617.2	620.1	578.6	587.6	436.1	420.7	***	***	***	***	***	***	
89	970.2	654.4	489.1	424.5	649.3	662.5	620.2	622.3	583.5	591.4	441.8	427.9	***	***	***	***	***	***	
90	971.9	656.9	496.6	433.9	652.2	664.7	623.4	625.3	588.0	595.5	448.7	435.7	***	***	***	***	***	***	

Table 4. Average Temperatures Measured in Assembly S-10, Steel Studs, 1x2 Gypsum Board Layers, No Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(18,19)	BL/SStd. (Exp.) Av(10,11,24,25)	Mid SStd. Av(12,13,26,27)	BL/Cav. (UnExp.) Av(20,21)	BL/SStd. (UnExp.) Av(14,15,28,29)	BL/FL (UnExp.) Av(16,17,22,23,30,31)	UnExp. Av(1,2,3,4,5)
0	50.0	38.9	38.5	35.8	35.2	32.8	28.7	26.1
1	111.2	38.9	38.6	35.8	35.2	32.9	28.7	26.6
2	224.7	42.9	43.3	36.2	36.5	33.0	28.8	26.6
3	326.2	55.3	61.1	40.7	43.0	35.6	28.8	26.2
4	434.5	69.2	82.1	54.1	57.0	44.8	29.2	26.5
5	531.6	79.2	94.0	67.5	68.8	57.1	30.4	26.6
6	561.8	87.8	95.6	75.6	75.5	65.9	33.2	26.5
7	603.6	96.0	96.1	80.1	80.1	71.5	36.9	27.4
8	636.6	103.2	97.1	83.3	85.1	76.1	41.0	28.2
9	665.6	108.4	98.2	85.7	89.0	79.5	45.3	29.1
10	696.4	111.3	102.1	87.4	91.4	81.9	49.8	30.8
11	712.3	113.7	110.5	88.9	93.1	83.7	53.3	33.2
12	721.3	116.9	123.4	92.4	95.1	85.0	56.6	35.4
13	731.7	124.6	141.2	97.1	100.0	85.7	59.9	38.0
14	742.0	147.8	165.8	104.3	110.8	86.0	62.3	40.8
15	753.9	186.1	195.3	117.8	129.3	87.2	64.2	43.6
16	761.3	223.5	232.6	136.9	151.8	92.4	66.1	46.2
17	768.0	258.0	266.2	160.3	175.1	104.3	68.7	49.2
18	774.5	285.1	296.6	184.7	195.7	119.0	71.5	51.5
19	781.9	301.4	325.9	205.8	212.1	134.7	74.3	54.0
20	788.4	314.9	350.9	222.6	226.0	148.0	77.1	57.0
21	794.6	327.6	370.6	236.2	238.2	159.6	79.8	59.9
22	798.6	336.6	388.8	248.3	249.5	169.5	82.6	62.6
23	805.8	347.4	403.0	259.1	260.2	178.4	85.3	64.6
24	809.7	353.0	416.2	268.6	270.1	186.8	87.7	66.5
25	815.5	359.0	429.4	277.5	278.4	195.0	89.7	68.1
26	820.9	363.6	440.4	286.0	286.3	203.0	91.6	69.4
27	824.1	368.9	451.2	293.7	295.3	210.4	93.3	70.4
28	828.5	375.3	460.5	301.0	304.7	217.3	94.7	71.3
29	832.6	383.0	477.4	308.0	312.7	224.2	95.9	72.1
30	837.6	390.6	486.4	315.3	322.2	231.1	97.1	72.8
31	842.5	397.0	497.5	322.4	332.4	237.9	98.0	73.1
32	845.3	404.6	508.3	329.1	341.3	244.8	99.0	73.5
33	848.6	412.0	516.6	335.9	351.9	251.9	99.8	73.9
34	853.0	420.6	523.2	342.2	360.9	259.1	100.6	73.8
35	856.7	426.8	532.0	348.9	367.5	266.3	101.5	74.2
36	859.4	434.3	539.5	355.7	379.1	273.8	102.2	74.2
37	863.0	442.4	550.5	363.0	388.9	281.7	103.0	74.5
38	866.2	452.2	559.2	370.9	401.6	290.4	103.7	74.5
39	869.3	461.1	568.0	378.8	415.5	298.8	104.6	74.5
40	872.4	468.9	575.2	385.9	427.7	307.0	105.6	74.6
41	875.5	477.4	579.9	393.9	436.2	315.8	106.8	74.6
42	878.9	486.2	584.9	401.8	446.1	324.8	108.4	74.8
43	880.9	494.6	592.7	409.7	456.9	333.8	110.4	75.3
44	883.7	501.9	596.9	417.5	464.4	342.7	112.7	75.6
45	886.5	509.4	601.3	424.9	477.3	351.5	116.3	75.9
46	889.5	514.5	606.2	432.6	487.4	360.5	120.4	76.4
47	891.3	523.7	610.0	440.3	497.3	369.7	126.4	77.3
48	894.6	532.2	613.7	446.4	507.1	378.0	133.4	78.7
49	896.8	541.7	616.4	452.6	515.9	385.8	139.9	80.8
50	899.4	550.4	620.2	459.4	524.8	394.2	146.8	83.9
51	901.4	556.3	624.1	465.6	531.6	401.9	154.1	86.8
52	904.2	562.4	626.9	471.4	537.9	409.7	162.2	89.6
53	906.7	569.8	629.3	477.4	543.6	417.7	170.4	92.3
54	908.4	575.9	632.3	484.0	549.5	426.0	177.4	94.4
55	911.7	580.1	634.4	489.9	555.7	433.9	185.1	96.2
56	912.6	583.5	635.0	495.6	562.3	441.0	193.0	97.6
57	915.3	586.0	638.4	501.2	568.5	447.6	201.5	98.9

Table 5. Temperatures Measured in Assembly S-12, Steel Studs, 2x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	918.2	70.5	73.2	72.1	68.2	69.6	42.2	51.5	56.6	51.1	835.1	731.0	389.1	335.2	256.9	226.6	198.6	178.1	92.3	87.4	668.6
59	919.0	70.8	73.6	72.8	68.5	70.0	41.9	51.7	57.4	50.8	839.7	737.8	392.4	342.1	261.5	230.8	202.2	182.5	93.3	88.7	676.9
60	920.6	71.3	74.2	73.4	68.9	70.3	42.3	52.7	58.1	50.8	844.6	744.0	395.7	347.7	265.4	234.9	205.3	187.1	94.5	89.7	685.7
61	923.4	71.6	74.4	73.3	69.3	70.6	42.4	52.4	58.4	51.7	851.1	750.4	399.3	352.5	269.3	238.9	208.1	191.1	95.8	90.5	693.7
62	925.6	71.6	74.3	73.3	68.7	70.9	42.6	52.4	58.6	52.8	855.4	757.4	403.4	356.6	272.9	242.6	210.9	195.0	96.9	91.2	702.6
63	927.6	71.6	74.5	73.5	68.9	70.5	40.5	51.3	58.6	49.0	861.3	762.9	407.3	361.3	277.4	245.5	214.3	198.3	97.9	91.9	709.6
64	928.4	71.9	74.5	73.6	70.0	71.2	42.2	52.4	59.4	51.3	865.5	768.1	413.1	364.3	282.5	246.5	218.8	199.8	98.1	92.5	717.1
65	932.3	71.9	74.6	73.7	70.2	71.3	42.1	52.2	58.6	51.5	872.4	773.2	418.5	366.7	287.7	247.7	222.6	201.5	100.0	93.0	724.0
66	933.2	71.7	74.4	73.7	69.2	70.9	41.8	52.7	59.6	51.5	877.5	777.9	423.3	370.4	292.0	250.1	225.3	203.7	100.8	93.4	730.9
67	938.2	71.9	74.4	73.8	71.0	71.4	41.2	51.9	58.6	52.9	882.1	783.0	428.2	374.0	296.0	253.2	228.9	206.3	101.9	93.9	736.3
68	936.5	71.9	74.8	73.9	70.1	71.2	40.6	52.6	59.4	49.8	885.6	788.6	432.7	377.4	300.2	256.6	232.7	209.2	102.8	94.3	742.2
69	938.3	71.7	74.4	73.8	69.6	70.8	41.4	52.6	59.3	51.5	889.9	791.1	437.0	381.8	304.2	260.4	236.6	212.1	103.8	94.7	748.5
70	939.9	71.7	74.1	73.7	71.0	71.6	41.6	51.8	59.2	51.2	894.6	795.4	440.7	386.6	307.3	264.8	240.5	215.5	104.9	95.1	754.6
71	942.2	71.7	74.1	73.7	71.3	71.9	40.8	51.8	59.9	49.2	898.7	800.7	443.3	392.7	309.2	270.7	243.1	220.6	106.0	95.6	760.4
72	943.9	71.9	74.5	73.8	72.6	72.3	41.2	51.9	59.5	50.7	903.2	805.0	446.3	397.8	313.1	276.1	247.0	225.4	107.2	96.0	765.9
73	946.0	71.9	74.6	73.9	72.9	72.5	39.5	52.3	59.4	52.2	904.9	809.7	449.7	402.5	317.1	281.1	251.6	230.0	108.5	96.6	770.6
74	946.7	71.8	74.8	74.0	71.6	72.8	38.5	50.4	58.2	50.1	908.5	815.6	453.1	407.3	321.6	286.0	255.3	234.7	109.7	97.1	776.3
75	949.0	71.8	74.7	73.9	72.4	73.5	40.3	52.7	60.2	49.4	908.6	817.7	457.5	412.2	326.7	290.8	260.1	239.4	111.1	97.7	779.6
76	950.2	72.2	75.0	74.0	73.9	74.6	42.0	53.6	60.5	51.0	913.1	825.4	462.2	417.0	331.5	295.4	265.5	244.2	112.6	98.4	785.1
77	952.2	72.7	75.3	74.0	74.5	74.5	40.4	53.1	59.7	47.9	912.9	827.3	466.9	421.5	337.0	299.9	270.7	248.9	114.3	98.9	787.8
78	953.2	73.2	75.5	74.0	75.4	75.0	40.1	52.5	60.1	48.0	917.7	837.0	473.7	426.3	342.9	304.4	276.7	253.6	116.0	99.5	793.4
79	954.4	73.8	75.9	74.1	76.2	75.2	40.6	53.0	59.7	48.5	918.2	842.7	479.2	431.0	348.7	309.0	283.0	258.4	118.0	100.1	797.5
80	957.5	74.5	76.4	74.2	77.0	75.8	38.7	52.6	58.3	48.4	920.8	847.6	486.6	436.0	354.7	313.5	289.4	263.3	120.2	100.8	801.8
81	959.1	75.2	77.0	74.2	77.6	76.1	40.2	53.3	60.7	50.4	922.4	850.9	495.9	441.2	359.3	318.5	295.4	268.7	122.8	101.5	805.5
82	960.8	75.7	77.6	74.2	78.2	79.1	39.1	53.3	60.2	53.5	922.4	855.0	503.2	446.6	365.0	323.4	301.8	274.0	125.6	102.5	808.4
83	963.5	76.6	79.1	74.6	78.6	77.1	38.2	52.7	60.5	50.0	925.1	859.5	509.5	452.5	370.5	328.2	308.7	279.3	128.7	103.4	811.3
84	963.6	77.6	79.9	74.8	79.3	80.2	39.2	54.1	60.6	50.4	925.1	863.2	515.1	458.3	375.7	332.3	315.3	284.5	131.9	104.6	813.7
85	965.3	79.0	82.3	75.3	79.9	79.7	38.2	53.8	59.9	49.4	927.1	869.7	521.5	485.0	381.9	338.3	322.6	290.4	135.5	106.1	816.9
86	967.3	80.4	84.6	76.1	80.4	79.7	37.8	53.0	59.6	51.7	928.6	874.3	528.2	471.7	387.7	343.3	330.0	296.1	139.3	107.8	820.3
87	967.3	82.3	86.0	76.9	81.0	83.4	39.1	53.5	59.5	54.4	928.3	875.0	533.9	478.2	394.0	348.0	337.3	301.6	143.1	109.8	822.6
88	968.7	84.9	88.4	77.8	81.5	84.5	39.2	54.0	59.9	52.9	931.2	879.7	541.2	485.6	400.5	353.1	345.7	307.6	146.8	111.9	828.3
89	970.8	88.2	90.2	78.9	82.2	86.4	38.7	54.3	59.1	53.7	931.5	881.7	547.9	494.5	407.9	358.4	354.4	314.0	150.9	114.6	829.3
90	972.1	91.4	92.5	80.5	83.2	86.5	38.3	54.7	58.3	53.7	934.0	885.4	555.6	504.8	415.5	364.4	363.8	321.0	156.1	117.9	833.0
91	973.6	93.6	94.1	82.2	84.4	89.2	38.8	55.6	58.7	54.5	934.2	885.9	561.6	522.3	422.2	370.2	373.6	328.0	161.9	121.5	835.9
92	974.5	95.3	95.4	84.0	86.0	91.3	41.6	56.9	59.9	55.4	936.3	889.2	568.9	535.7	428.5	375.9	382.9	335.1	168.6	125.3	839.4
93	976.0	96.9	96.4	86.1	87.9	92.8	42.1	57.9	59.9	55.8	937.7	890.9	576.0	552.8	434.2	381.9	391.3	342.4	175.9	129.5	842.7
94	977.0	98.1	97.3	88.3	90.1	95.1	41.0	58.2	60.2	58.8	938.4	893.0	583.4	571.4	440.1	388.4	399.7	350.2	183.2	134.6	848.3
95	977.4	99.3	98.5	90.5	91.3	95.5	42.0	58.0	60.4	62.1	940.4	895.1	591.0	587.4	446.9	395.0	408.6	358.9	190.7	141.9	850.0
96	979.5	100.3	99.1	92.2	94.9	97.4	41.8	58.2	61.7	58.9	943.0	898.4	598.3	598.2	454.4	401.9	417.6	367.7	198.3	149.3	854.0
97	980.5	100.9	99.5	93.4	95.0	97.8	42.6	58.5	62.8	59.6	943.7	901.6	604.6	608.2	461.8	408.6	426.4	376.9	204.8	154.9	857.7
98	982.3	101.7	100.3	94.4	95.5	98.3	41.8	58.9	64.8	59.7	946.0	905.3	608.1	613.6	457.9	415.6	435.0	386.7	211.2	159.5	861.8
99	984.5	102.3	101.8	95.4	97.1	99.3	42.9	59.4	66.1	61.6	948.5	906.2	610.1	616.5	474.4	422.1	442.7	395.1	218.2	184.5	866.6
100	984.3	102.7	102.3	96.2	97.6	99.9	42.6	60.6	67.7	60.1	947.0	911.0	612.1	625.2	479.2	428.2	449.7	402.4	225.4	171.3	870.4
101	985.5	103.2	102.7	96.9	98.3	100.4	43.2	62.4	68.9	62.3	948.6	914.7	615.6	635.5	485.3	434.7	457.8	409.9	232.9	178.7	874.8
102	987.7	103.6	103.3	97.7	99.8	101.4	41.9	62.3	69.4	64.8	948.9	915.1	619.6	650.6	491.8	440.7	465.3	417.3	240.8	186.1	878.7
103	989.0	103.8	103.6	98.1	99.6	101.5	44.6	63.9	69.8	64.9	950.2	912.9	623.3	658.8	496.8	445.9	472.0	423.6	248.9	193.5	883.5
104	990.1	104.2	104.2	98.8	101.1	102.4	45.0	64.1	73.0	62.7	951.1	914.6	627.7	667.2	502.6	450.8	479.7	430.2	257.4	200.8	886.8
105	990.3	104.5	104.6	99.3	99.2	102.5	45.1	64.7	71.3	62.9	952.7	916.5	632.9	676.4	509.4	456.5	487.5	437.2	266.0	207.3	890.8
106	992.4	104.9	105.3	99.9	101.7	103.4	46.2	66.4	73.2	64.2	955.6	917.0	638.5	685.6	516.9	463.3	495.3	445.1	275.4	213.3	895.5
107	992.6	105.4	105.7	100.4	102.0	103.8	46														

Table 5. Temperatures Measured in Assembly S-12, Steel Studs, 2x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
116	1002.0	111.6	113.0	104.9	105.8	110.0	47.2	70.9	81.4	72.3	968.8	952.2	694.3	745.0	574.9	522.4	563.5	502.4	384.5	287.7	929.2
117	1002.0	112.5	114.8	103.8	106.4	110.2	48.5	71.5	82.6	71.8	973.6	955.0	699.3	748.9	579.1	528.1	573.5	507.5	399.1	295.8	933.3
118	1002.7	113.8	117.6	105.2	107.0	111.7	50.6	72.4	83.8	74.3	973.3	956.4	704.1	753.2	583.2	533.9	580.2	512.4	413.1	303.9	936.0
119	1003.0	115.4	120.4	104.8	107.6	112.6	52.4	72.9	84.2	68.9	975.6	958.4	708.8	758.8	587.1	538.8	586.3	515.7	426.1	312.0	940.0
120	1004.5	117.8	122.6	105.6	108.4	114.7	56.5	75.9	83.9	76.1	976.3	959.0	712.0	762.4	591.1	544.1	592.2	519.8	437.9	320.1	943.2
121	1005.4	121.6	125.6	106.3	109.2	117.6	51.5	74.7	86.6	76.2	977.2	960.8	713.6	766.8	595.2	549.3	595.6	524.4	449.4	328.5	945.9
122	1006.2	125.8	132.4	107.3	110.1	123.1	50.5	75.2	89.0	74.3	982.7	962.6	714.0	771.2	599.1	555.0	603.9	529.6	464.9	336.8	949.5
123	1006.1	130.1	135.6	108.0	111.1	127.1	53.4	76.0	90.2	74.0	980.5	965.1	714.7	774.1	603.0	560.3	610.7	534.1	479.8	345.2	951.2
124	1006.4	140.6	137.5	108.4	112.3	134.2	54.6	76.4	91.7	76.6	981.3	967.0	715.5	777.0	605.6	584.3	612.6	537.9	494.9	353.1	953.1
125	1007.6	149.3	141.5	109.3	113.9	143.7	55.7	77.4	91.8	76.1	982.6	968.0	716.1	776.9	607.9	588.2	616.4	541.6	509.8	380.6	954.7
126	1008.5	155.4	149.9	110.5	116.1	150.4	59.0	77.8	90.9	74.9	982.6	969.4	717.3	776.9	610.7	572.4	621.6	545.8	531.7	368.1	957.2
127	1009.1	171.1	156.3	112.1	119.6	163.9	55.1	77.1	92.9	77.6	983.3	970.6	718.7	777.5	613.7	576.7	625.1	550.1	547.4	376.3	958.9
128	1010.1	188.7	170.6	114.0	123.8	183.4	57.0	78.8	95.7	79.5	986.0	972.8	720.2	777.4	616.8	580.7	626.0	554.1	560.3	384.7	960.6
129	1010.8	204.3	189.9	116.1	127.6	200.3	60.1	79.9	96.7	80.3	985.5	973.3	721.7	777.2	619.2	584.4	627.6	558.0	575.5	394.0	962.7
130	1010.7	219.1	206.8	118.1	136.2	220.2	61.4	80.8	98.2	81.2	984.9	973.8	723.3	777.4	622.5	588.1	630.2	562.6	595.3	403.1	962.9

Table 5. Temperatures Measured in Assembly S-12, Steel Studs, 2x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																		
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
0	31.7	27.1	27.5	25.8	25.9	25.0	24.6	23.9	28.4	27.0	26.8	25.5	26.0	25.0	25.2	24.3	24.5	23.6		
1	112.9	27.3	27.4	25.8	25.9	25.0	24.6	23.8	26.9	27.2	26.7	25.6	26.0	24.9	25.3	24.4	24.4	23.8		
2	221.8	30.8	27.4	25.8	25.8	25.1	24.6	23.7	39.8	32.8	26.8	25.6	25.9	24.9	25.1	24.4	24.4	23.7		
3	328.8	41.8	28.1	25.9	26.0	25.2	24.6	23.7	59.8	46.7	27.6	26.0	26.1	25.1	25.3	24.4	24.4	23.8		
4	427.6	62.6	31.5	26.4	28.9	25.4	24.6	23.8	77.6	66.2	34.4	28.2	26.7	25.3	25.4	24.6	24.4	23.8		
5	525.1	78.8	57.2	28.6	44.8	26.3	24.6	23.9	84.6	83.5	77.5	52.3	31.2	27.2	26.1	24.9	24.5	23.9		
6	573.8	82.4	64.2	32.8	52.0	28.6	24.7	23.9	89.3	88.5	82.0	78.9	40.4	35.1	31.0	26.4	24.6	23.9		
7	594.8	84.6	69.7	40.1	54.8	33.4	25.2	24.0	94.8	91.7	86.3	86.0	51.1	42.8	42.0	29.7	25.0	24.0		
8	635.2	88.0	73.5	49.2	60.1	39.4	26.2	24.5	100.1	96.8	87.8	88.9	68.9	49.0	63.5	34.0	26.3	24.4		
9	663.8	91.9	76.0	57.8	66.8	45.0	27.9	25.3	104.8	102.0	90.2	90.1	85.0	54.2	77.8	38.5	29.4	25.3		
10	698.1	94.6	80.7	63.9	71.3	50.2	30.2	26.4	108.6	105.8	92.6	90.4	88.3	58.9	82.7	43.3	34.1	26.6		
11	709.6	95.9	83.6	72.5	72.2	55.5	33.3	28.1	111.9	109.2	93.9	90.9	89.5	63.5	85.3	48.7	39.2	28.3		
12	723.2	96.6	85.8	77.0	73.7	59.6	37.6	30.5	116.9	113.0	95.5	91.1	90.1	67.4	86.5	53.2	44.3	30.3		
13	730.9	98.2	87.3	80.2	75.1	62.9	42.5	32.8	127.9	119.4	98.3	91.0	89.8	70.8	86.6	58.4	49.4	32.7		
14	743.5	103.0	87.1	81.2	75.5	65.6	47.8	35.2	159.0	134.3	102.7	91.0	88.5	73.3	85.3	63.0	52.3	35.1		
15	754.9	119.9	86.3	81.1	78.6	67.8	52.2	38.5	202.2	168.2	113.0	89.5	87.6	75.2	84.2	65.5	55.9	38.3		
16	762.5	149.2	86.6	81.8	76.4	69.8	55.7	41.0	229.2	206.8	125.8	88.2	87.8	76.1	83.7	68.0	58.1	40.2		
17	766.0	178.3	88.6	82.3	77.4	71.8	58.4	43.1	254.4	234.4	138.4	90.5	89.4	77.4	85.1	70.2	60.1	42.8		
18	775.5	193.5	90.1	83.6	80.0	73.9	60.6	45.5	276.9	256.9	155.4	92.6	91.2	79.2	85.8	72.5	62.0	45.0		
19	782.3	212.3	94.3	84.5	80.3	75.9	62.6	49.0	296.2	280.4	168.2	94.1	94.2	81.4	85.9	75.1	63.9	48.2		
20	789.5	229.5	96.8	85.2	81.4	78.2	64.6	50.0	313.4	300.1	175.2	96.5	99.7	83.4	86.0	76.6	65.5	51.3		
21	794.0	243.8	100.3	85.8	82.9	79.6	66.4	52.7	330.7	317.2	181.7	99.1	104.8	85.1	86.1	78.1	66.9	53.3		
22	799.9	259.4	105.3	86.1	81.0	67.9	55.0	347.5	332.8	190.2	101.3	107.8	86.9	86.2	79.5	68.1	55.6			
23	807.1	274.8	109.1	86.1	100.1	81.9	69.0	57.1	365.0	346.9	201.8	106.5	110.4	88.7	86.6	80.6	69.2	57.6		
24	808.2	291.5	111.9	86.4	106.2	83.4	69.9	59.2	382.0	361.8	214.1	112.1	113.0	90.5	86.9	81.5	70.1	59.4		
25	816.3	307.8	114.6	87.2	110.4	85.0	70.9	60.9	398.3	377.7	226.7	118.6	115.8	92.3	87.6	82.3	70.8	61.3		
26	820.5	322.2	115.8	87.7	113.8	86.2	71.6	62.7	414.0	392.2	239.3	124.1	118.8	94.1	88.3	83.0	71.6	62.9		
27	824.3	335.6	116.7	88.3	116.9	87.1	72.4	64.5	428.5	406.1	249.6	130.5	121.9	96.0	89.4	83.7	72.4	64.3		
28	829.3	348.5	117.6	89.1	121.1	88.2	73.2	66.0	443.4	421.3	257.8	139.8	125.1	98.3	91.0	84.3	73.1	65.6		
29	834.1	359.8	118.6	90.0	124.4	89.0	73.9	67.3	457.3	435.8	264.7	151.5	128.4	101.2	93.0	85.1	73.9	66.8		
30	837.0	370.5	119.1	90.3	126.3	89.7	74.5	68.5	471.1	450.6	270.2	159.4	131.7	104.3	94.9	85.8	74.6	68.0		
31	842.4	381.0	119.5	91.0	126.5	90.4	75.0	69.5	486.2	468.3	274.3	171.6	134.6	107.3	97.0	86.4	75.3	69.0		
32	846.9	393.6	120.1	91.0	127.0	90.8	75.4	70.3	500.8	486.1	287.3	190.4	136.7	110.4	99.0	87.2	75.9	69.9		
33	848.6	406.3	120.6	91.8	129.3	91.3	75.5	71.0	513.7	504.4	294.3	216.1	138.4	114.5	100.7	98.1	76.4	70.6		
34	852.1	414.9	122.0	92.2	131.6	91.9	75.7	71.4	525.3	520.7	301.3	233.1	140.6	119.0	102.5	99.3	76.7	71.4		
35	856.8	426.1	124.2	93.0	136.0	92.2	75.8	72.0	536.8	536.2	311.0	243.2	143.9	123.2	104.4	90.7	77.2	72.0		
36	860.7	437.3	128.3	94.4	140.2	93.1	75.9	72.2	547.5	550.0	320.8	254.6	147.7	127.3	106.7	92.3	77.5	72.6		
37	863.9	447.5	133.0	96.7	145.6	93.9	75.9	72.6	558.1	562.0	330.1	265.6	152.0	131.5	109.4	94.0	78.1	73.2		
38	866.1	457.5	145.8	99.3	151.0	95.5	75.7	72.7	568.6	573.0	339.5	275.4	157.2	136.2	112.5	96.0	78.6	73.9		
39	869.2	468.3	158.3	103.9	155.7	98.0	75.8	72.9	578.5	583.2	349.2	283.0	163.4	140.9	116.2	98.6	79.3	74.5		
40	872.4	480.2	175.5	108.7	165.3	101.5	75.6	73.1	589.7	595.4	360.4	292.7	170.1	145.9	120.3	101.4	80.1	75.2		
41	875.9	491.4	194.3	116.1	172.1	105.9	75.8	73.1	599.9	606.3	371.9	303.1	177.3	150.9	124.9	104.7	81.0	76.0		
42	879.4	502.6	211.1	125.1	184.0	112.8	76.2	73.3	609.1	615.5	384.0	313.6	184.9	156.2	129.4	108.4	82.0	76.8		
43	881.1	515.8	223.4	135.3	195.9	120.0	76.8	73.7	619.7	627.0	396.2	324.2	192.8	162.1	133.9	112.7	83.3	77.7		
44	884.0	528.3	238.5	145.1	206.6	128.4	77.5	74.2	628.3	636.7	404.9	327.2	200.9	166.6	138.0	117.5	85.0	78.6		
45	885.8	537.9	249.6	156.0	216.2	137.9	78.3	74.9	634.3	642.3	407.2	335.0	208.4	175.2	141.6	122.8	86.9	79.6		
46	888.8	550.0	261.1	167.8	225.5	148.4	78.9	75.5	642.3	651.0	406.8	344.1	215.3	181.3	144.3	128.0	88.7	80.6		
47	891.0	560.6	271.9	179.0	234.5	158.4	79.3	76.1	648.5	658.6	408.7	358.0	221.0	187.2	146.6	132.8	90.2	81.7		
48	894.1	569.5	280.5	186.7	242.4	166.1	80.2	76.6	653.0	665.7	409.6	370.8	226.0	193.2	149.6	137.0	91.5	83.0		
49	896.6	572.7	287.6	190.8	250.2	172.6	81.2	77.0	655.2	670.1	409.1	378.4	230.7	199.1	153.6	140.1	92.6	84.6		
50	898.9	584.8	293.9	196.4	256.4	177.0	82.8	78.0	658.1	676.0	409.7	387.1	235.1	203.9	158.0	142.9	93.6	86.5		
51	902.2	592.2	300.3	205.5	261.5	181.5	84.7	79.7	660.9	680.1	410.6	395.0	239.8	208.1	162.3	146.0	94.8	88.2		
52	904.3	599.1	307.4	211.8	266.9	187.6	86.7	81.3	664.2	684.3	412.8	393.7	244.0	211.5	166.7	149.4	95.8	89.7		
53	905.8	606.7	311.8	219.5	272.4	194.5	88.4	89.0	669.0	688.9	416.5	395.8	248.1	215.1	170.5	153.2	96.8	90.8		
54	909.0	612.9	318.0	226.3	277.0	201.2	89.9	84.4	672.2	692.5	420.0	401.5	252.3	220.5	174.5	157.6	97.7	92.0		
55	911.7	618.3	323.5	232.0	282.2	207.6	91.0	85.7	674.8</td											

Table 5. Temperatures Measured in Assembly S-12, Steel Studs, 2x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
58	918.2	633.9	338.3	248.5	296.0	223.5	93.4	88.5	681.9	701.4	434.2	422.3	268.9	235.7	189.1	174.0	101.3	95.9
59	919.0	639.7	342.4	253.4	299.7	227.5	94.0	89.2	684.5	705.3	438.2	426.1	272.9	240.0	192.0	177.3	101.8	96.5
60	920.6	646.1	347.3	260.9	303.5	232.2	94.7	89.7	688.4	709.8	443.3	430.6	276.7	244.4	195.0	180.9	102.4	97.3
61	923.4	652.3	351.4	265.2	308.4	236.8	95.3	90.3	693.1	714.5	450.2	435.1	280.3	248.9	197.8	184.8	103.0	97.9
62	925.6	658.3	355.3	272.4	312.5	239.8	95.8	90.9	697.9	718.3	456.6	438.8	284.0	252.6	200.7	188.8	103.7	98.5
63	927.6	663.9	360.3	276.9	316.9	244.9	96.2	91.4	702.4	721.4	463.3	442.6	287.7	257.6	203.8	192.9	104.3	99.1
64	928.4	669.1	363.7	284.3	325.4	254.3	96.8	91.8	706.6	724.5	470.4	448.1	290.8	263.3	206.9	197.5	104.7	99.6
65	932.3	674.3	367.6	290.3	328.4	260.9	97.1	92.1	710.8	727.6	477.0	454.3	293.7	268.3	209.9	201.9	105.2	100.1
66	933.2	679.9	371.6	296.6	333.6	266.6	97.5	92.4	715.5	730.6	483.4	464.4	297.4	272.5	213.0	206.0	105.7	100.6
67	936.2	684.0	375.1	301.2	337.6	271.7	98.0	92.8	718.6	732.7	489.3	472.5	301.7	276.5	216.3	209.9	106.1	101.1
68	936.5	688.4	379.8	306.4	341.5	276.1	98.6	93.2	722.2	734.8	495.3	478.7	306.4	280.4	219.8	213.6	106.6	101.7
69	938.3	693.2	380.6	310.0	344.6	281.7	99.0	93.5	726.1	737.1	501.6	484.0	312.0	284.3	223.5	217.4	107.1	102.2
70	939.9	698.4	387.7	316.9	346.9	285.5	99.4	93.9	729.8	739.0	506.6	489.7	317.4	288.2	227.5	221.1	107.5	102.6
71	942.2	703.8	394.1	323.0	348.0	286.3	100.2	94.5	734.3	739.8	513.7	495.2	322.4	291.4	231.7	224.2	108.1	103.2
72	943.9	708.3	400.4	331.2	352.2	289.5	101.0	94.9	735.8	740.3	520.2	500.3	327.2	294.3	236.0	227.3	108.6	103.7
73	946.0	711.4	407.6	339.4	356.3	294.5	101.6	95.3	735.8	740.3	524.3	506.6	332.7	297.6	240.2	230.6	109.2	104.2
74	946.7	716.5	414.4	347.2	361.6	301.1	102.3	95.7	736.9	740.9	528.6	514.4	338.2	300.9	244.6	234.0	109.7	104.8
75	949.0	718.0	420.4	354.7	365.7	305.4	103.1	96.2	736.7	739.8	530.9	517.7	343.9	304.8	249.8	237.8	110.4	105.0
76	950.2	723.6	426.4	362.9	370.2	312.4	104.0	96.8	737.8	739.0	536.9	522.6	350.3	309.0	254.1	241.7	111.1	105.5
77	952.2	725.1	431.9	370.0	374.7	321.9	105.0	97.2	737.4	738.2	539.6	524.3	356.4	312.1	258.8	244.9	111.9	106.0
78	953.2	731.4	439.0	378.5	380.0	330.1	106.1	97.7	738.0	738.2	547.2	528.3	363.0	315.3	263.8	248.2	112.7	106.4
79	954.4	735.7	445.7	386.3	384.9	336.5	107.6	98.4	738.2	738.8	553.7	535.6	369.7	319.3	268.7	252.1	113.6	106.9
80	957.5	739.3	452.7	394.9	389.6	342.8	109.5	99.2	738.5	739.8	559.8	543.5	377.0	324.3	274.0	256.1	114.9	107.4
81	959.1	743.1	460.0	403.9	394.7	349.3	112.4	100.0	739.1	741.5	567.3	554.2	383.7	329.3	279.2	259.5	116.3	107.9
82	960.8	744.3	467.3	412.8	400.0	354.9	115.5	100.9	739.6	743.0	570.6	560.2	390.0	332.9	284.5	263.7	117.9	108.4
83	963.5	744.7	474.3	421.5	405.2	361.2	118.9	101.5	739.7	748.3	573.3	566.1	396.1	337.4	290.0	267.9	120.0	109.0
84	963.6	746.3	480.9	430.2	410.1	367.4	125.5	102.2	739.9	749.8	576.5	571.9	401.9	342.1	295.5	272.5	122.5	109.5
85	965.3	748.8	489.6	442.1	415.7	374.2	132.5	103.1	740.4	749.6	581.8	578.4	408.7	349.7	301.4	277.1	126.1	110.2
86	967.3	751.1	498.5	450.7	421.4	381.4	138.8	104.7	741.5	751.2	586.3	582.4	415.9	355.3	307.8	282.8	130.3	110.9
87	967.3	753.1	506.0	457.7	425.4	387.1	147.1	107.2	742.7	753.2	588.0	584.0	421.8	360.0	313.7	287.5	134.6	111.7
88	968.7	755.6	510.4	464.8	431.1	394.2	160.4	109.6	743.9	754.4	588.5	587.4	427.4	364.9	319.7	292.8	139.2	112.6
89	970.8	758.4	515.8	471.8	436.7	400.9	172.7	112.1	745.4	755.9	590.3	589.7	433.7	368.6	325.8	297.6	144.0	113.7
90	972.1	761.6	523.9	484.0	442.7	408.4	182.1	116.9	747.0	757.5	594.8	592.5	440.4	372.6	332.2	302.4	148.8	115.0
91	973.6	764.6	528.2	488.8	447.7	416.0	188.7	123.1	748.6	759.2	595.5	594.7	446.1	377.7	338.3	307.5	153.7	116.5
92	974.5	767.6	535.6	496.6	453.6	424.7	193.8	128.4	750.2	761.0	598.8	597.9	452.9	382.7	344.3	313.0	158.5	118.1
93	976.0	770.7	542.8	505.1	459.2	433.3	199.7	133.5	751.7	762.8	601.9	601.2	459.2	387.2	350.2	318.3	163.8	120.4
94	977.0	774.4	549.4	514.9	465.5	441.7	206.4	140.5	753.4	764.5	605.9	603.9	465.4	391.4	357.0	324.0	169.4	123.1
95	977.4	777.2	556.5	521.3	471.4	449.9	213.5	150.5	755.1	766.5	610.0	605.5	472.4	396.6	363.6	332.5	175.6	126.2
96	979.5	780.3	566.1	532.9	477.3	457.2	220.9	160.2	756.8	768.9	613.7	608.7	479.4	402.5	370.7	342.6	181.5	129.7
97	980.5	783.8	571.7	543.3	483.1	464.1	228.2	168.1	758.6	771.5	617.1	613.4	487.0	410.0	378.0	350.8	187.4	133.4
98	982.3	787.6	584.6	551.7	489.4	469.9	235.2	172.8	760.6	774.0	620.7	616.7	495.4	414.2	386.9	357.6	192.8	137.3
99	984.5	791.3	595.2	560.8	494.1	475.8	241.7	175.5	762.5	776.9	623.4	619.9	502.6	419.6	393.7	362.2	198.1	141.5
100	984.3	794.8	599.9	565.1	498.6	481.0	248.5	179.3	764.5	780.0	625.9	624.2	508.3	425.0	400.1	366.0	203.1	146.0
101	985.5	797.9	610.0	575.3	504.5	487.2	255.4	184.8	766.4	783.1	630.4	629.1	516.1	430.6	407.9	371.4	207.9	150.7
102	987.7	801.0	618.6	583.8	509.5	492.8	262.9	190.9	768.1	786.3	634.4	633.7	522.7	436.0	413.5	376.2	212.5	165.3
103	989.0	803.6	619.8	588.2	513.1	497.1	270.6	197.0	769.7	795.9	638.6	638.3	526.7	440.0	417.7	380.6	216.9	159.6
104	990.1	806.6	620.8	589.5	517.9	503.7	279.4	202.9	771.7	792.8	642.7	644.1	531.0	443.4	421.2	384.6	221.6	164.3
105	990.3	809.1	629.2	598.6	523.8	510.8	290.0	208.9	773.3	795.6	647.6	651.3	536.0	447.8	426.0	389.7	226.0	168.7
106	992.4	811.8	635.3	608.2	530.9	516.2	301.6	214.3	774.9	798.9	652.1	665.7	543.1	453.6	432.3	395.8	230.5	173.4
107	992.6	814.7	643.4	626.5	537.9	522.1	312.5	219.8	776.3	801.5	655.0	672.8	550.2	458.1	438.4	401.1	234.9	178.1
108	994.1	817.1	638.5	640.3	544.3	529.1	323.7	222.9	777.9	804.4	658.3	680.0	556.8	463.1	446.2	407.7	239.5	182.9
109	994.6	819.5	641.2	648.7	549.2	534.4	334.9	227.9	779.2	806.7	661.2	685.3	561.6	468.2	451.5	415.0	244.3	187.5
110	997.2	822.4	643.9	646.6	553.9	539.6	346.6	234.1	780.4	809.1	664.3	690.6	566.4	473.6	456.1	422.0	249.5	191.9
111	995.8	825.5	648.2	653.2	560.5	547.9	357.8	242.2	781.5	810.7	667.0	695.5	569.7	478.3	460.6	426.7	254.8	196.0
112	999.0	828.8	653.3	654.4	565.6	554.3	368.2	250.7	782.2	813.1	669.2	700.3	573.4	485.2	464.6	431.5	260.6	200.0
113	998.8	831.6	657.5	656.8														

Table 5. Temperatures Measured in Assembly S-12, Steel Studs, 2x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																		
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
116	1002.0	843.0	664.6	657.9	584.6	581.2	397.7	284.6	787.3	821.8	680.7	722.8	588.7	512.7	481.6	455.7	283.1	214.8		
117	1002.0	846.3	666.9	659.1	589.9	588.1	403.1	292.8	788.3	823.6	684.0	727.3	593.9	518.7	487.1	461.8	288.3	218.7		
118	1002.7	850.0	670.0	661.3	595.6	592.7	408.9	299.3	789.3	826.3	685.9	729.9	597.2	524.8	491.9	467.5	294.0	222.9		
119	1003.0	853.6	672.4	663.3	601.4	600.1	414.8	307.5	790.2	828.8	687.9	733.7	600.4	529.5	497.3	471.9	298.6	227.2		
120	1004.5	857.3	676.1	666.8	606.9	604.7	420.5	316.3	791.0	831.1	688.9	730.3	606.6	534.1	503.4	476.5	303.9	231.6		
121	1005.4	861.3	677.7	667.5	611.2	608.9	426.3	325.5	792.0	833.9	689.8	732.9	610.5	537.3	508.0	480.2	309.2	235.9		
122	1006.2	865.1	681.1	670.5	617.5	616.2	432.5	334.6	793.3	838.2	691.1	738.0	614.3	541.2	513.6	484.5	314.7	240.3		
123	1006.1	867.9	684.2	671.6	622.1	622.4	439.3	343.4	794.2	840.8	691.5	735.4	616.8	546.2	518.6	489.9	319.2	244.6		
124	1006.4	871.2	684.4	673.5	625.6	625.9	445.9	351.3	795.1	843.7	691.6	713.3	619.4	549.9	523.0	494.0	323.3	248.5		
125	1007.6	874.1	687.3	676.7	629.2	628.4	452.8	358.1	795.0	846.6	690.4	715.3	619.4	553.3	525.9	497.7	326.6	252.9		
126	1008.5	877.0	689.0	677.0	633.6	632.2	459.5	363.9	794.8	848.8	688.6	716.3	620.0	557.8	526.7	502.2	329.6	256.9		
127	1009.1	879.9	691.2	678.3	635.8	633.6	466.4	368.8	794.6	850.6	687.3	717.4	621.7	561.8	527.4	506.8	332.2	260.9		
128	1010.1	882.2	693.3	680.4	635.6	635.1	473.1	373.5	794.8	852.2	686.9	727.1	623.7	565.3	527.8	511.0	335.2	264.8		
129	1010.8	884.4	695.3	682.0	636.5	636.4	479.6	377.5	795.4	854.2	687.5	730.3	626.6	568.3	530.1	514.9	338.9	268.7		
130	1010.7	888.8	697.2	681.7	636.9	636.8	486.4	382.0	796.6	854.5	688.2	729.3	630.0	571.5	533.4	518.4	342.7	272.3		

Table 6. Average Temperatures Measured in Assembly S-12, Steel Studs, 2x2 Gypsum Board Layers, No Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min.)	T(Fav) (°C)	BL/FL (Exp.) Av(10,11,20,21,28,29)	BL/SStd. (Exp.) Av(12,13,30,31)	BL/Cav. (Exp.) Av(22,23)	Mid. SStd. Av(14,15,32,33)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(16,17,34,35)	BL/FL (UnExp.) Av(18,19,26,27,36,37)	UnExp. Av(1,2,3,4,5)
0	31.7	27.8	26.3	26.6	25.6	25.5	24.8	24.2	23.7
1	112.9	28.0	26.3	26.6	25.5	25.5	24.9	24.1	23.7
2	221.8	34.5	26.4	26.6	25.5	25.5	24.9	24.1	23.7
3	328.8	52.6	26.9	27.0	25.6	25.6	24.9	24.1	23.7
4	427.6	73.1	30.3	29.0	26.0	27.2	25.0	24.1	23.7
5	525.1	84.6	50.8	42.9	28.3	35.5	25.5	24.2	23.7
6	573.8	89.0	65.3	48.5	34.4	40.3	27.9	24.2	23.7
7	594.8	91.8	74.9	54.9	42.3	44.1	33.9	24.4	23.7
8	635.2	94.8	80.6	61.3	52.9	49.7	43.6	25.1	23.7
9	663.8	99.1	84.2	66.9	61.7	55.9	52.1	26.6	23.8
10	698.1	103.6	86.6	72.3	66.8	60.8	58.2	28.6	23.9
11	709.6	108.4	88.4	78.1	71.5	63.9	64.0	31.2	24.2
12	723.2	114.0	89.9	81.4	75.1	66.6	68.2	34.3	24.6
13	730.9	122.7	91.3	83.8	77.5	69.0	71.5	37.7	25.3
14	743.5	140.3	93.1	84.2	78.7	70.5	73.0	40.7	26.2
15	754.9	168.4	95.9	83.7	79.4	72.2	73.8	44.1	27.5
16	762.5	191.5	99.2	84.2	80.1	73.1	74.7	46.5	29.1
17	769.0	210.9	103.4	85.4	81.4	74.6	76.2	49.8	30.9
18	775.5	226.9	108.6	86.8	83.0	76.9	77.9	50.9	32.9
19	782.3	243.4	112.5	89.4	84.9	78.1	79.3	53.5	35.0
20	789.5	258.1	115.3	91.0	87.4	79.8	80.3	55.4	37.1
21	794.0	271.1	117.8	93.1	89.7	81.3	81.3	57.2	39.3
22	799.9	284.1	120.9	95.7	91.4	83.6	82.2	59.1	41.4
23	807.1	297.2	125.4	97.6	93.0	91.0	83.1	61.0	43.5
24	808.2	310.6	130.3	99.1	94.4	94.8	83.9	62.5	45.6
25	816.3	324.0	135.7	100.9	96.0	97.7	84.7	63.8	47.4
26	820.5	337.1	141.3	101.8	97.7	100.0	85.4	65.2	49.1
27	824.3	349.8	146.8	102.5	99.9	102.0	86.2	66.6	50.9
28	829.3	363.2	152.4	103.3	101.9	104.7	87.0	67.8	52.5
29	834.1	379.7	158.2	104.3	104.2	106.7	88.0	69.0	54.0
30	837.0	395.8	162.7	104.7	106.6	108.0	88.9	70.1	55.4
31	842.4	411.2	169.1	105.2	108.8	108.4	89.7	71.1	56.6
32	846.9	425.8	178.4	105.6	110.9	108.9	90.5	71.9	57.7
33	848.6	441.8	187.6	106.2	113.0	110.3	91.3	72.6	58.6
34	852.1	454.9	194.4	107.1	115.3	111.7	92.2	73.2	59.4
35	856.8	469.1	200.2	108.6	117.7	113.6	93.0	73.7	60.2
36	860.7	483.1	206.6	111.3	120.2	116.6	94.1	74.1	60.9
37	863.9	495.9	213.1	114.9	123.0	119.7	95.2	74.4	61.5
38	866.1	508.0	220.0	122.5	126.4	123.2	96.6	74.7	61.8
39	869.2	520.2	229.2	131.1	130.5	126.8	98.2	75.0	62.4
40	872.4	533.8	239.5	142.1	135.6	133.4	100.4	75.4	62.7
41	875.9	547.5	253.2	155.2	141.6	139.0	103.6	75.7	63.1
42	879.4	560.7	268.0	168.1	148.7	148.4	107.4	76.3	63.6
43	881.1	575.0	281.7	179.3	156.5	157.9	112.1	77.0	64.0
44	884.0	588.5	293.4	191.8	164.6	167.5	116.9	77.9	64.3
45	885.8	600.6	304.7	202.8	172.8	177.0	121.8	78.7	64.7
46	888.8	614.5	314.6	214.5	180.7	186.9	127.0	79.6	65.2
47	891.0	626.8	325.3	225.4	188.2	196.5	132.2	80.5	65.7
48	894.1	637.7	335.1	233.6	195.3	204.3	137.6	81.5	66.2
49	896.6	646.9	342.6	239.2	202.0	211.4	142.8	82.6	66.6
50	898.9	656.1	350.0	245.2	208.0	216.7	147.8	83.9	67.2
51	902.2	664.1	357.0	252.9	213.8	221.5	152.9	85.4	67.8
52	904.3	671.9	361.8	259.6	218.9	227.3	157.8	86.8	68.1
53	905.8	680.4	367.8	265.7	224.0	233.4	162.5	88.1	68.8
54	909.0	687.3	374.5	272.1	229.2	239.1	167.4	89.3	69.4
55	911.7	692.9	379.9	277.7	234.1	244.9	172.1	90.3	69.6
56	913.7	698.0	385.2	282.9	238.7	250.5	176.6	91.3	70.2
57	915.9	703.5	389.9	288.3	243.0	255.0	180.9	92.2	70.5

Table 7. Temperatures Measured in Assembly S-14, Steel Stud, 1x1 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	917.8	110.8	102.7	105.0	107.4	104.0	71.8	72.3	76.8	96.6	773.6	743.0	719.2	676.1	475.0	433.8	729.9	700.8	713.6	650.9	362.6
59	919.3	112.2	102.9	105.3	108.0	104.6	70.9	70.6	74.5	97.7	784.7	745.3	722.9	679.5	483.4	439.4	733.3	702.9	716.1	653.0	368.7
60	922.0	113.9	103.1	105.4	108.7	105.3	71.7	71.2	74.1	99.5	790.4	747.9	727.2	682.8	491.4	445.2	736.3	704.7	719.5	655.1	374.7
61	924.1	116.5	103.3	105.7	109.5	106.1	72.7	72.4	75.5	101.2	798.4	751.3	730.5	686.0	498.4	451.0	739.0	706.2	722.4	657.3	381.7
62	926.2	120.4	103.5	105.9	110.3	107.2	72.5	72.4	77.1	100.6	803.1	755.0	733.7	689.2	505.5	456.9	742.4	707.9	726.0	659.9	390.2
63	927.8	126.4	103.7	106.2	111.7	108.5	73.8	72.7	76.9	85.5	806.8	758.9	736.7	693.0	512.4	462.8	745.7	710.5	730.1	662.6	400.8
64	928.4	135.4	104.0	106.5	112.9	110.0	76.1	74.5	78.9	88.3	808.2	762.8	740.7	697.1	519.1	468.9	751.0	712.8	735.1	666.0	414.3
65	931.3	144.1	104.4	107.0	114.8	112.3	77.4	74.0	80.2	90.5	806.9	767.4	744.0	701.7	525.4	475.1	756.2	716.1	741.1	669.3	429.6
66	933.2	156.2	104.8	107.5	117.3	115.4	78.5	75.1	80.1	93.6	806.2	771.9	747.0	706.8	530.6	481.6	761.9	719.8	746.6	673.5	442.9
67	935.4	174.2	105.2	108.1	121.2	119.6	78.5	74.4	78.8	94.7	807.2	774.8	750.2	711.5	536.0	488.7	763.9	723.4	749.3	676.8	453.1
68	937.0	193.5	105.7	108.9	126.9	126.2	78.3	74.1	80.2	102.9	807.7	778.4	752.8	715.8	540.2	495.4	764.8	726.4	750.3	680.6	458.6
69	938.6	213.7	106.3	109.7	134.3	135.7	79.8	74.9	79.9	108.2	809.9	781.6	755.8	720.0	543.9	502.0	766.7	729.3	751.9	684.4	466.9
70	940.0	234.4	106.9	110.6	147.1	145.9	82.0	76.5	84.6	120.5	813.6	785.2	759.1	724.9	547.0	508.5	769.4	732.6	754.7	688.3	477.5
71	941.9	257.0	107.7	111.7	155.9	163.6	80.3	74.2	81.1	132.9	820.3	790.3	762.4	730.0	550.7	514.5	772.9	736.8	758.9	692.5	488.9
72	943.3	284.0	108.6	112.8	174.7	185.3	83.7	76.9	84.3	140.6	823.0	792.5	766.5	734.6	554.1	520.7	775.2	739.6	761.3	696.8	497.9
73	944.9	316.4	109.9	114.0	197.9	208.4	87.1	78.0	86.4	146.2	830.3	798.2	770.2	740.0	558.4	527.7	778.7	744.3	764.9	701.0	505.6
74	947.3	359.4	111.3	115.3	219.3	232.4	92.2	79.3	90.9	159.0	833.7	802.8	774.3	745.9	561.6	534.9	782.3	748.2	768.4	704.8	511.8
75	948.2	413.5	112.8	116.6	240.8	259.0	96.9	77.9	88.6	161.5	837.6	804.2	779.1	750.6	564.7	540.9	786.0	749.1	771.9	705.7	519.7

Table 7. Temperatures Measured in Assembly S-14, Steel Stud, 1x1 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Table 7. Temperatures Measured in Assembly S-14, Steel Stud, 1x1 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Table 8. Average Temperatures Measured in Assembly S-14, Steel Stud, 1x1 Gypsum Board Layers, Mineral Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/SStd. (Exp.) Av(10,11,22,23)	BL/Cav. (Exp.) Av(16,17)	Mld. SStd. Av(12,13,24,35)	MFL/Cav. (Exp.) Av(18,19)	BL/SStd. (UnExp.) Av(14,15,26,27)	BL/Cav. (UnExp.) Av(20,21)	UnExp. Av(1,2,3,4,5)
0	40.6	35.7	36.8	31.9	36.7	27.8	25.5	22.9
1	109.7	35.7	38.8	31.8	36.6	27.8	25.5	22.9
2	223.7	38.4	43.1	32.0	37.4	27.6	25.4	22.9
3	325.1	50.5	57.7	34.9	42.6	27.9	25.5	22.9
4	435.1	78.2	73.8	48.5	55.8	30.2	27.1	22.8
5	531.4	94.8	86.5	65.7	71.1	37.9	36.1	22.9
6	570.4	96.8	95.5	75.4	77.9	48.0	47.1	23.3
7	600.4	97.1	104.4	81.1	82.9	56.9	56.1	24.8
8	632.6	97.8	111.8	84.4	91.9	63.0	62.3	27.7
9	683.8	100.8	117.0	86.7	99.7	67.6	66.7	32.0
10	697.4	105.4	120.1	88.7	105.4	72.0	70.2	36.9
11	712.2	111.8	122.0	90.3	109.7	75.8	73.3	41.9
12	721.0	120.7	124.9	91.7	113.3	78.6	75.7	46.9
13	732.5	132.2	132.6	94.1	118.2	80.3	77.0	51.2
14	742.5	153.1	159.5	98.8	131.5	80.3	76.8	54.6
15	753.5	191.9	227.4	110.7	171.2	78.9	74.6	57.4
16	760.9	240.2	304.3	134.6	238.5	78.7	74.5	59.0
17	768.8	292.6	376.4	172.6	313.6	81.3	81.8	59.5
18	775.6	344.0	426.5	212.2	375.8	87.2	97.9	59.9
19	782.5	390.5	482.4	247.6	419.3	97.5	120.5	60.1
20	788.9	430.4	490.9	278.6	453.2	110.1	142.3	60.0
21	794.4	462.3	515.3	307.1	482.0	122.7	160.2	60.2
22	800.7	489.5	537.7	333.6	507.8	138.2	175.8	60.7
23	805.3	516.3	557.7	357.3	529.1	152.8	189.7	61.5
24	810.6	536.8	574.6	378.6	546.4	165.9	202.4	62.7
25	816.2	555.1	588.8	398.0	560.6	177.9	214.2	64.2
26	821.5	573.9	601.0	415.4	572.9	189.0	224.8	66.0
27	824.4	587.8	611.6	431.9	583.2	199.3	234.8	67.0
28	828.6	600.7	621.1	447.5	591.9	209.9	244.0	68.1
29	834.0	609.6	629.0	461.8	599.6	220.8	252.3	69.7
30	838.0	622.1	638.0	476.2	607.8	232.2	260.3	71.1
31	841.7	636.5	646.6	490.6	616.1	244.4	269.0	72.0
32	845.1	635.6	656.1	505.1	625.5	257.8	278.5	74.3
33	849.8	651.7	665.8	521.9	635.6	273.5	289.5	76.9
34	852.8	663.4	675.5	538.2	645.4	287.9	297.6	79.4
35	857.7	674.9	687.2	548.6	657.7	297.2	308.0	82.5
36	859.7	686.2	696.3	557.3	666.0	301.3	315.6	85.7
37	863.3	692.1	706.8	569.8	674.5	306.9	319.5	88.1
38	866.5	695.3	713.4	581.3	681.6	319.3	323.2	91.0
39	869.3	697.9	719.4	589.6	686.1	324.2	325.5	93.1
40	872.2	699.3	715.3	602.8	683.4	326.8	324.0	95.2
41	875.4	704.6	713.0	612.9	680.6	332.8	325.2	96.6
42	877.8	712.6	712.3	618.8	679.4	340.6	327.4	98.4
43	881.7	715.9	713.7	623.1	680.7	347.3	329.6	99.4
44	883.6	719.0	714.8	625.4	681.8	353.6	332.8	100.5
45	886.5	725.6	717.2	627.6	684.1	359.4	334.8	101.4
46	888.7	730.2	714.9	629.5	683.5	365.3	337.5	101.7
47	891.6	729.2	708.4	630.8	676.5	370.8	337.9	102.5
48	894.2	721.1	707.3	629.9	671.7	375.2	338.5	102.9
49	897.3	716.9	705.9	628.1	670.5	378.8	340.7	103.1
50	900.5	715.8	706.7	627.0	670.9	381.6	341.1	103.5
51	901.9	714.6	705.7	626.7	670.8	384.3	343.7	103.6
52	904.7	715.4	707.4	627.2	671.7	387.3	345.3	104.0
53	906.6	716.5	708.3	628.5	672.8	390.6	348.0	104.2
54	908.4	718.0	709.0	630.2	674.6	394.3	350.3	104.4
55	910.7	719.4	711.0	632.5	676.1	398.3	354.0	104.8
56	912.9	721.5	712.6	634.8	677.8	402.2	359.1	105.1
57	916.0	724.7	714.3	637.3	679.9	406.8	361.1	105.6

Table 9. Temperatures Measured in Assembly S-15, Steel Stud, 1x1 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Table 10. Temperatures Measured in Assembly S-15, Steel Stud, 1x1 Gypsum Board Layers, Cellulosic Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/SStd. (Exp.) Av(10,11,20,21)	BL/Cav. (Exp.) Av(16,17)	Mid. SStd. Av(12,13,22,23)	BL/SStd. (UnExp.) Av(14,15,24,25)	BL/Cav. (UnExp.) Av(18,19)	UnExp. Av(1,2,3,4,5)
0	31.8	26.2	27.0	23.8	22.2	21.0	20.2
1	129.9	26.6	27.0	23.8	22.2	21.1	20.2
2	228.0	32.4	29.3	24.0	22.2	21.1	20.2
3	333.7	48.9	42.3	25.5	22.5	21.5	20.2
4	433.5	74.7	69.3	30.5	24.2	23.8	20.2
5	529.7	96.2	85.5	44.6	32.6	30.1	20.2
6	568.4	97.7	90.7	62.5	42.8	37.8	20.4
7	601.2	98.5	94.3	77.7	52.0	45.3	21.0
8	635.5	99.8	97.9	86.4	63.2	55.9	22.6
9	668.1	101.6	100.6	90.8	69.2	65.4	25.6
10	700.8	105.6	102.8	92.9	74.0	71.9	30.0
11	711.4	112.5	104.2	93.8	77.9	76.3	35.5
12	722.4	120.0	105.5	94.2	80.6	78.9	40.7
13	732.5	130.2	107.2	94.2	82.1	80.1	45.7
14	744.0	148.5	112.4	93.9	81.9	80.4	50.3
15	754.1	182.1	129.5	94.2	80.9	78.7	63.6
16	761.7	218.4	158.8	97.1	81.0	77.1	55.5
17	769.2	255.2	198.4	102.4	82.5	79.7	56.9
18	774.5	298.8	241.8	110.8	83.9	81.7	58.4
19	783.5	322.7	292.2	121.3	85.2	81.3	59.3
20	790.1	357.9	340.9	133.0	86.9	81.1	60.4
21	796.6	387.7	386.9	144.8	89.0	81.7	61.4
22	802.1	415.7	430.6	156.7	91.8	83.0	61.9
23	804.9	441.7	468.0	168.9	94.7	85.6	62.2
24	813.2	464.4	497.3	181.2	98.0	88.6	62.5
25	816.2	483.4	520.9	193.6	101.8	92.6	62.5
26	823.0	502.9	540.0	206.3	106.1	97.0	63.0
27	826.0	520.7	555.8	219.2	111.1	102.2	63.3
28	831.3	536.9	568.9	232.2	116.6	107.6	63.9
29	836.2	551.3	580.3	245.5	122.4	113.1	64.4
30	838.0	564.2	590.5	259.1	128.2	118.6	64.8
31	841.9	577.0	600.1	272.9	134.4	124.0	65.4
32	847.1	588.2	609.1	286.8	140.6	129.6	65.4
33	850.7	599.8	617.9	300.8	147.0	136.6	65.8
34	853.8	611.1	627.2	314.5	153.6	141.9	66.3
35	859.5	620.8	637.3	328.3	160.6	148.5	67.0
36	859.8	629.9	601.0	342.2	166.7	155.3	67.5
37	865.6	638.4	655.2	356.0	173.8	162.2	68.4
38	867.2	648.0	665.3	369.7	181.5	169.4	69.5
39	868.4	657.2	674.2	383.4	190.6	176.7	70.6
40	873.1	665.7	681.8	396.8	201.7	184.2	71.3
41	876.5	672.9	691.8	409.7	215.5	191.7	73.2
42	879.2	681.1	700.5	422.0	232.2	199.9	74.3
43	882.9	687.9	707.8	433.5	251.3	208.6	76.0
44	883.2	694.8	715.5	444.2	272.7	218.9	77.7
45	887.3	701.1	721.9	454.4	294.8	230.3	78.9
46	890.8	707.5	727.3	464.1	316.3	242.6	80.0
47	893.1	714.3	733.3	473.7	337.3	255.6	81.1
48	894.9	720.9	741.6	483.2	357.1	269.4	82.1
49	899.1	726.9	748.6	492.6	375.3	283.7	83.3
50	899.6	732.1	753.0	501.6	392.2	298.9	84.3
51	901.1	737.1	757.0	510.4	408.9	315.6	84.9
52	904.0	741.2	759.8	518.9	425.9	332.9	86.0
53	908.5	745.0	762.6	527.2	441.9	351.5	87.2
54	910.3	749.0	765.2	535.6	458.3	372.3	88.6
55	912.5	752.4	767.2	544.0	474.2	393.4	89.9
56	914.6	755.5	763.9	552.3	488.9	413.6	91.2
57	916.8	759.1	730.5	560.7	503.8	432.7	92.7

Table 11. Temperatures Measured in Assembly S-18, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	916.8	61.4	63.1	63.0	63.0	63.0	43.7	50.7	44.0	51.0	796.2	786.0	614.0	794.4	308.8	354.3	103.1	101.5	813.5	843.1	235.0
59	921.1	62.3	64.3	64.1	63.7	63.6	44.8	51.9	45.0	52.2	799.7	787.7	627.5	801.2	338.1	384.9	104.0	102.4	815.7	840.6	255.8
60	921.6	63.5	65.4	64.8	64.5	64.1	45.0	52.6	45.4	52.5	803.3	789.3	641.6	809.3	370.5	415.1	105.0	103.2	817.2	836.1	276.7
61	922.8	64.7	66.3	65.0	65.2	64.4	44.9	52.8	45.3	53.2	806.4	790.7	655.5	820.9	405.9	445.1	105.6	103.9	818.5	831.2	298.0
62	926.3	65.6	67.4	65.7	66.0	64.8	44.2	51.8	44.5	52.8	808.5	791.1	668.6	827.1	443.3	474.2	106.4	104.5	816.8	823.1	320.3
63	928.6	66.3	68.1	66.2	66.7	65.1	45.8	53.2	45.8	54.1	811.3	791.7	681.1	833.6	481.4	501.4	107.4	105.3	813.5	815.6	344.3
64	929.9	67.1	68.7	66.5	67.4	65.4	45.7	53.1	45.7	53.9	815.4	791.5	694.5	835.3	518.7	526.9	108.4	106.2	808.4	807.4	371.3
65	932.0	67.5	69.4	66.9	67.9	65.8	46.4	53.7	46.3	54.9	818.8	792.2	706.4	840.7	554.6	550.6	109.5	107.3	802.7	802.2	400.2
66	932.2	68.1	70.0	67.1	68.4	66.1	47.3	54.5	46.7	55.4	822.3	793.2	717.4	841.6	588.0	572.9	110.6	108.4	797.5	797.8	430.5
67	936.5	68.7	70.4	67.3	68.9	66.3	47.8	54.9	48.0	55.5	825.2	793.5	726.9	842.0	619.0	583.1	111.7	109.6	792.7	793.6	461.1
68	937.0	69.2	70.8	67.6	69.3	66.5	48.0	55.3	48.1	56.0	828.9	795.3	735.5	846.9	647.3	612.2	113.0	110.8	790.0	792.7	491.2
69	938.2	69.7	70.8	68.0	69.8	66.6	48.0	55.5	48.2	56.0	832.9	798.7	743.3	851.1	671.4	631.7	114.2	112.1	789.3	792.9	519.7
70	940.6	70.1	71.3	68.5	70.2	66.8	48.9	56.4	49.3	57.7	835.0	799.8	760.1	851.7	688.7	648.6	116.0	113.9	788.4	792.4	545.3
71	942.8	70.6	71.4	68.7	70.7	66.8	49.1	56.6	49.7	58.1	838.2	802.9	756.6	853.6	704.0	664.8	118.6	116.6	789.4	793.8	568.5
72	942.9	70.9	71.5	69.1	71.0	66.8	49.2	57.1	50.4	58.7	839.3	803.3	762.4	852.1	716.5	677.5	122.4	120.5	789.6	792.2	589.5
73	945.8	71.2	71.6	69.3	71.4	66.9	49.1	57.4	51.1	58.8	841.1	803.7	767.9	850.8	728.5	687.7	126.0	125.8	790.5	791.2	608.6
74	948.0	71.3	71.8	69.5	71.8	67.0	49.8	58.1	51.7	59.4	842.8	804.6	772.0	851.4	736.0	696.9	131.7	132.4	791.3	791.3	624.8
75	949.2	71.5	72.1	69.8	72.1	67.3	49.3	56.9	49.9	58.3	844.7	806.7	775.2	851.4	742.6	706.1	138.4	140.2	792.0	791.9	638.3
76	950.9	71.8	72.1	70.0	72.3	67.4	49.8	57.4	50.8	58.7	846.5	808.8	778.4	851.8	748.0	714.8	144.2	148.6	792.9	792.8	649.8
77	952.2	72.0	71.9	70.1	72.6	67.7	50.0	57.3	51.3	58.9	848.5	811.3	781.5	852.0	752.9	722.6	149.8	157.9	794.1	794.3	660.8
78	954.4	72.0	72.2	70.2	72.6	68.1	50.9	57.9	52.1	60.1	849.9	813.3	784.6	851.1	756.9	729.8	155.5	166.8	795.3	795.4	670.2
79	956.4	72.2	72.2	70.7	72.8	68.3	50.5	57.3	51.8	58.6	851.5	815.3	787.4	851.0	760.6	736.2	162.8	175.0	796.4	796.8	678.5
80	957.8	72.2	72.0	70.1	72.9	68.5	51.0	57.5	52.5	59.8	852.9	817.7	789.9	851.3	764.3	742.5	169.4	182.4	797.7	798.8	685.7
81	959.6	72.1	72.3	70.2	73.0	68.8	51.3	57.5	52.5	59.8	855.2	820.7	792.4	852.8	768.0	749.0	175.1	189.5	799.1	801.7	692.5
82	960.8	72.3	72.0	70.2	73.1	68.9	50.8	57.4	52.6	59.0	857.1	823.6	794.7	854.3	771.7	755.3	179.9	196.5	800.7	804.4	698.7
83	961.5	72.2	72.3	70.3	73.1	69.0	50.2	56.4	52.5	58.9	860.0	828.4	796.9	856.7	776.3	763.1	184.4	202.8	802.4	806.7	704.5
84	964.1	72.2	72.7	70.5	73.2	68.2	51.7	57.8	53.3	60.5	862.3	832.7	798.9	858.0	780.3	770.5	188.7	208.5	804.2	812.4	710.0
85	965.5	72.5	72.9	70.8	73.2	69.2	50.8	57.0	54.2	59.6	864.7	835.9	800.7	859.6	783.7	776.3	192.7	214.1	805.8	814.9	715.1
86	967.8	72.9	73.0	71.1	73.4	69.3	51.2	56.5	53.0	59.8	868.3	840.6	802.6	861.5	788.0	784.3	196.5	219.5	807.7	818.8	720.0
87	969.0	73.3	73.5	71.7	73.5	69.5	51.4	57.0	53.3	60.4	869.8	843.3	804.6	860.7	790.8	788.7	200.0	224.6	809.6	820.3	725.0
88	969.5	73.9	74.2	72.3	73.5	69.5	51.4	57.4	54.1	59.8	872.6	847.0	806.4	861.7	794.1	794.5	203.5	229.8	811.5	823.7	729.6
89	971.4	74.6	74.9	73.0	73.6	69.6	51.9	57.4	54.1	60.4	874.2	849.9	807.8	862.7	796.9	799.1	206.7	235.1	812.9	825.9	733.8
90	972.7	75.4	75.6	73.7	73.7	69.6	51.4	57.5	53.7	59.3	876.5	853.9	809.2	865.0	799.5	804.6	209.6	240.3	814.5	829.5	737.5
91	972.1	76.2	76.1	74.4	73.8	69.6	52.0	58.0	54.2	60.3	878.5	857.6	810.9	866.1	801.7	810.0	212.1	245.3	816.2	832.4	741.4
92	975.3	77.0	76.6	75.0	74.0	69.8	52.4	58.4	54.3	60.4	881.4	861.9	812.9	869.0	804.1	815.6	214.3	250.2	818.0	835.9	745.1
93	976.7	78.0	77.9	75.7	74.0	69.8	51.4	58.5	54.4	59.8	885.3	866.9	815.6	871.8	807.2	822.0	216.6	255.3	820.4	840.3	749.6
94	977.1	79.3	77.9	76.3	74.2	69.7	51.9	59.3	54.3	60.1	893.5	873.8	818.9	877.2	812.0	829.6	218.4	260.5	823.7	845.9	754.6
95	979.1	80.7	78.8	76.9	74.3	69.7	52.1	60.1	55.2	60.3	895.6	879.4	822.8	877.0	816.3	837.2	220.5	265.8	827.4	848.8	760.4
96	980.0	82.3	80.2	77.5	74.3	70.0	52.1	61.2	55.5	60.9	897.8	882.3	824.8	877.5	818.5	840.6	223.0	271.4	829.2	851.9	764.6
97	981.2	84.4	81.0	78.1	74.5	70.3	51.2	61.1	54.4	60.1	899.6	886.1	826.7	877.6	820.5	843.3	225.5	277.5	831.0	845.4	768.4
98	982.5	86.7	80.7	78.5	74.8	70.5	51.1	61.7	54.5	60.0	900.6	891.2	828.7	878.4	822.4	845.3	227.8	284.1	833.0	857.8	772.2
99	984.2	88.8	82.4	79.0	75.2	71.1	51.4	63.2	54.9	60.4	906.7	894.2	832.8	882.3	825.2	847.2	231.4	291.1	835.6	862.1	777.6
100	984.7	90.6	83.3	79.5	75.7	71.6	51.4	64.7	54.5	59.9	911.3	910.2	837.0	884.5	828.6	850.4	235.4	298.3	839.1	866.0	783.6
101	986.4	92.3	82.9	80.0	76.7	71.8	50.7	65.9	54.5	59.6	916.4	916.3	840.6	885.6	832.1	854.0	239.0	305.6	842.4	868.8	789.1
102	988.5	93.7	84.4	80.4	77.8	72.7	51.4	67.1	54.7	60.2	919.5	917.9	843.9	885.7	835.3	864.8	245.1	312.9	845.3	870.5	794.0
103	989.3	95.1	85.0	80.9	79.3	73.1	51.2	67.3	53.8	60.5	922.8	919.8	847.0	886.6	838.1	903.1	250.6	320.5	847.9	872.2	798.8
104	990.1	96.2	86.5	81.3	81.4	73.9	50.7	69.2	54.4	59.9	929.7	941.4	855.7	889.2	843.2	924.2	258.3	328.5	853.7	875.6	808.2
105	991.8	97.3	86.7	81.6	84.4	74.6	51.2	69.3	54.9	60.0	932.7	946.5	862.3	890.3	847.9	928.4	263.6	336.1	859.4	882.6	816.5
106	993.3	98.3	87.6	82.2	87.2	75.1	50.2	70.2	53.3	59.8	941.9	958.7	867.9	896.4	854.0	929.8	270.2	344.3	865.6	892.6	824.4
107	993.8	99.1	88.1	82.6	89.7	76.7															

Table 11. Temperatures Measured in Assembly S-18, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
116	1000.8	105.4	93.9	92.5	105.0	84.0	52.0	79.8	54.7	67.4	970.1	977.9	917.3	916.5	968.4	910.2	344.5	482.8	923.3	956.3	859.7
117	1003.5	106.0	94.5	94.0	106.0	86.5	52.0	80.7	54.0	68.6	969.0	978.6	919.6	912.5	967.3	908.8	352.7	490.4	924.8	954.6	856.0
118	1002.6	106.8	95.0	95.1	107.0	88.6	52.1	82.1	53.9	69.1	967.2	981.8	921.1	918.0	970.2	904.9	358.9	496.3	926.5	956.3	854.0
119	1004.7	107.7	95.5	96.1	108.0	90.4	52.3	82.8	54.5	71.1	964.6	972.2	922.9	920.3	971.2	901.4	365.8	503.3	927.2	957.7	854.2
120	1004.8	108.6	96.0	97.1	108.7	92.9	51.9	82.5	54.0	73.7	963.6	973.1	924.6	922.0	970.7	897.0	373.5	512.0	928.8	959.5	855.3
121	1009.1	109.4	96.4	97.8	109.4	95.7	52.9	83.9	54.7	75.2	959.6	956.7	924.9	924.1	972.3	917.6	381.6	521.2	930.7	961.3	859.8
122	1008.0	110.4	96.9	99.3	110.2	97.5	53.5	85.9	56.3	78.5	953.6	963.7	926.9	930.3	972.4	928.3	393.2	531.2	932.5	964.9	866.9
123	1004.9	111.5	97.4	99.4	111.0	99.0	53.8	86.4	57.6	80.1	963.3	941.5	925.8	927.0	968.8	940.2	406.9	540.2	931.5	961.6	865.4
124	1007.6	112.8	97.9	99.8	111.9	100.6	52.5	86.1	58.0	80.1	958.0	955.9	925.8	926.9	968.8	941.4	416.8	548.2	931.7	965.4	866.4
125	1007.2	114.7	98.4	100.3	112.7	101.4	54.4	87.2	59.2	80.0	960.5	957.7	926.2	927.0	968.7	937.3	424.4	558.1	931.6	966.1	878.9
126	1006.2	117.2	99.0	101.0	113.8	102.7	56.0	88.3	60.1	81.9	958.1	954.8	925.7	925.5	968.2	926.3	435.3	567.6	930.5	964.6	901.2
127	1009.2	121.1	99.5	101.6	115.2	103.6	57.6	90.0	63.1	83.6	960.6	959.5	927.0	926.2	969.9	934.6	440.0	577.7	931.3	967.4	924.7
128	1010.4	128.2	100.1	102.2	117.5	104.5	59.3	90.8	65.3	84.9	957.0	968.9	929.6	927.7	971.4	936.6	449.3	588.3	933.3	961.5	932.8
129	1011.8	137.1	100.7	102.7	120.9	105.5	62.5	92.7	67.6	86.6	959.2	968.4	930.6	927.5	972.0	935.7	457.4	598.9	933.6	962.0	932.9
130	1010.8	146.3	101.3	103.2	124.8	105.9	62.7	94.6	68.9	85.1	966.9	967.8	932.1	927.7	972.3	933.5	468.2	611.1	934.6	967.3	920.6
131	1014.6	161.3	101.8	103.7	132.2	106.6	63.1	94.5	68.4	83.9	970.9	970.6	934.4	928.9	974.3	924.7	480.2	622.5	936.2	966.8	926.1
132	1014.2	177.9	102.4	104.2	140.3	107.3	64.5	97.3	70.4	85.4	970.6	972.4	937.0	931.2	974.8	939.9	488.5	635.1	938.0	966.2	927.8
133	1016.4	194.9	103.2	104.8	143.8	107.9	68.3	101.2	73.8	89.0	972.4	970.0	938.9	933.1	975.9	947.9	497.9	646.2	939.4	970.2	931.5
134	1015.7	212.4	104.0	105.5	150.1	108.4	67.2	102.1	71.7	88.1	973.6	969.9	940.7	933.9	975.9	953.9	509.8	657.6	941.0	973.5	946.3
135	1016.2	230.5	104.9	106.2	159.6	108.9	70.8	107.5	75.8	91.2	974.6	970.0	943.0	935.3	976.4	956.9	524.9	669.0	942.2	973.4	946.6

Table 11. Temperatures Measured in Assembly S-18, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
0	36.3	24.4	22.2	21.8	30.3	29.6	28.1	27.6	26.1	25.3	23.9	23.4	***	***	***	***	***	***
1	111.7	24.3	22.2	21.8	30.9	30.3	28.0	27.5	26.1	25.3	23.9	23.3	***	***	***	***	***	***
2	237.1	24.4	22.2	21.8	38.2	36.8	28.1	27.6	26.2	25.3	23.7	23.2	***	***	***	***	***	***
3	327.1	24.3	22.2	21.6	55.8	51.1	29.6	28.8	26.3	25.4	23.7	23.2	***	***	***	***	***	***
4	429.1	24.5	22.2	21.7	79.0	73.7	34.5	34.2	27.2	25.7	23.5	23.2	***	***	***	***	***	***
5	526.2	24.3	22.9	21.7	93.0	88.9	43.5	44.8	29.3	27.0	23.8	23.3	***	***	***	***	***	***
6	582.8	24.8	22.3	21.7	95.0	92.0	53.3	57.1	32.3	29.6	24.0	23.4	***	***	***	***	***	***
7	604.1	28.0	22.3	21.8	96.6	93.1	62.8	68.1	36.2	33.2	24.4	23.7	***	***	***	***	***	***
8	634.2	37.1	22.2	21.8	99.2	97.7	71.9	76.8	41.2	37.9	25.0	24.2	***	***	***	***	***	***
9	667.0	50.1	22.3	21.8	102.4	104.5	79.7	82.5	47.1	43.7	26.1	25.2	***	***	***	***	***	***
10	698.9	52.6	22.5	22.0	106.2	109.3	85.1	86.2	53.8	50.5	27.6	26.8	***	***	***	***	***	***
11	711.4	70.7	23.0	22.4	111.1	113.2	88.3	88.3	60.4	57.7	29.9	29.2	***	***	***	***	***	***
12	721.3	75.5	24.3	23.5	116.6	117.1	89.5	89.2	66.0	64.0	32.9	32.4	***	***	***	***	***	***
13	732.8	78.2	26.4	25.3	124.8	124.6	89.7	89.3	70.1	68.8	36.1	35.8	***	***	***	***	***	***
14	743.9	79.0	29.1	27.8	142.3	141.9	88.7	89.0	72.1	71.3	39.0	39.1	***	***	***	***	***	***
15	754.3	78.1	32.2	30.7	186.1	187.5	88.3	89.7	72.7	72.1	41.6	41.9	***	***	***	***	***	***
16	761.0	76.9	35.0	33.4	231.2	236.3	91.5	94.7	74.0	73.0	45.4	45.0	***	***	***	***	***	***
17	768.4	79.5	37.4	35.9	272.4	275.4	97.5	104.7	77.4	76.0	48.2	48.5	***	***	***	***	***	***
18	774.8	81.3	39.5	38.0	306.8	308.0	104.7	116.2	80.7	79.1	51.1	51.7	***	***	***	***	***	***
19	783.0	81.5	41.8	40.2	336.5	335.6	114.4	128.7	83.4	81.5	54.3	55.5	***	***	***	***	***	***
20	789.5	81.7	43.9	42.4	373.4	371.1	125.2	143.1	86.1	83.5	56.7	58.4	***	***	***	***	***	***
21	795.9	81.8	45.7	44.4	403.8	402.3	136.9	158.9	88.7	85.7	58.9	61.6	***	***	***	***	***	***
22	800.6	81.9	47.4	46.2	429.1	429.8	149.2	175.8	91.5	88.4	60.7	64.8	***	***	***	***	***	***
23	806.2	81.9	48.7	47.8	452.6	456.4	161.7	194.0	94.8	91.7	62.6	68.0	***	***	***	***	***	***
24	811.5	81.8	50.0	49.3	475.0	481.5	174.5	212.8	98.2	95.5	63.9	71.1	***	***	***	***	***	***
25	815.9	82.0	51.0	50.4	495.7	505.7	187.4	232.2	101.8	99.7	65.7	73.5	***	***	***	***	***	***
26	820.9	82.2	51.9	51.5	514.4	525.8	200.6	252.5	105.6	104.3	67.0	75.6	***	***	***	***	***	***
27	824.9	82.3	52.9	52.5	531.2	543.9	214.0	272.9	109.7	109.4	68.7	77.4	***	***	***	***	***	***
28	830.2	82.7	53.5	53.4	545.5	560.3	227.3	293.2	114.3	115.0	70.0	78.6	***	***	***	***	***	***
29	834.5	83.0	54.3	54.1	558.8	576.1	240.6	313.0	119.1	121.1	70.5	79.6	***	***	***	***	***	***
30	838.3	83.3	54.9	54.9	573.2	591.5	254.0	332.6	124.2	127.3	***	***	***	***	***	***	***	***
31	842.4	83.6	55.6	55.7	587.6	605.6	267.9	351.4	129.6	133.8	72.7	81.1	***	***	***	***	***	***
32	847.1	84.8	56.1	56.2	602.8	619.9	282.1	365.3	135.3	140.4	72.7	81.7	***	***	***	***	***	***
33	848.6	85.5	56.6	56.8	617.1	634.2	297.0	382.5	141.2	147.0	73.2	82.2	***	***	***	***	***	***
34	853.7	86.7	57.1	57.3	630.8	648.8	312.1	399.6	147.3	153.7	73.9	82.8	***	***	***	***	***	***
35	857.6	87.2	57.6	57.8	642.7	663.2	327.4	416.4	154.0	160.2	74.6	83.5	***	***	***	***	***	***
36	861.0	91.9	58.0	58.2	654.8	677.6	342.7	432.7	160.3	166.9	75.3	84.0	***	***	***	***	***	***
37	863.6	94.0	58.4	58.6	666.6	688.9	358.2	448.5	166.6	173.7	76.1	84.5	***	***	***	***	***	***
38	866.2	100.1	58.9	59.0	675.9	699.6	373.7	464.8	173.5	180.5	77.0	85.2	***	***	***	***	***	***
39	869.8	103.8	59.4	59.4	683.7	708.7	388.9	482.0	180.3	187.6	78.0	85.9	***	***	***	***	***	***
40	874.1	110.8	59.8	59.8	691.8	716.8	403.6	501.3	187.5	194.6	80.5	86.6	***	***	***	***	***	***
41	877.2	116.0	60.3	60.2	699.6	724.3	418.4	523.2	194.8	201.8	82.4	87.7	***	***	***	***	***	***
42	878.8	125.4	60.8	60.6	705.8	728.5	432.9	547.2	202.4	209.1	84.0	88.9	***	***	***	***	***	***
43	882.3	133.4	61.3	61.1	711.6	731.7	447.4	572.8	209.0	216.8	85.9	90.5	***	***	***	***	***	***
44	881.5	143.8	61.8	61.5	717.8	734.8	461.8	600.2	214.8	224.8	87.7	91.9	***	***	***	***	***	***
45	888.0	154.1	62.3	62.0	723.0	736.0	476.3	627.4	222.3	233.0	89.7	93.4	***	***	***	***	***	***
46	899.5	165.9	62.9	62.4	728.9	737.3	491.4	652.9	230.9	241.4	91.8	94.9	***	***	***	***	***	***
47	891.9	178.4	63.5	62.9	734.8	738.3	508.4	674.8	239.2	250.2	93.8	96.4	***	***	***	***	***	***
48	895.0	192.1	64.2	63.4	740.8	740.7	529.3	693.9	249.1	259.5	95.9	97.8	***	***	***	***	***	***
49	898.0	206.8	64.7	63.9	746.8	743.4	555.6	709.9	258.6	269.3	97.8	99.3	***	***	***	***	***	***
50	900.6	222.1	65.3	64.3	751.9	747.0	586.0	722.4	269.6	279.3	99.4	100.5	***	***	***	***	***	***
51	903.0	238.6	65.9	64.7	755.4	760.3	623.0	731.2	281.0	289.2	101.2	101.9	***	***	***	***	***	***
52	905.2	255.9	66.5	65.1	758.4	754.0	656.1	737.1	291.4	298.7	102.9	103.2	***	***	***	***	***	***
53	907.2	273.4	67.0	65.7	761.9	759.0	684.6	741.6	300.6	307.2	104.8	104.6	***	***	***	***	***	***
54	908.3	290.2	67.6	66.3	763.5	763.0	706.2	743.7	312.9	314.8	106.9	106.2	***	***	***	***	***	***
55	911.0	306.4	68.2	67.0	764.1	766.2	721.5	745.2	326.3	321.6	109.1	107.9	***	***	***	***	***	***
56	912.8	322.0	69.9	67.6	764.6	769.3	733.2	747.4	340.0	327.6	111.6	109.7	***	***	***	***	***	***
57	916.7	337.0	69.6	68.3	764.7	771.2	742.3	749.9	352.9	333.3	114.3	111.6	***	***	***	***	***	***

Table 11. Temperatures Measured in Assembly S-18, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
58	916.8	351.7	70.2	69.0	766.0	773.3	750.5	753.4	370.5	339.1	117.5	113.7	***	***	***	***	***	***
59	921.1	366.1	70.9	69.7	767.4	774.5	757.5	756.9	390.8	345.8	121.2	116.1	***	***	***	***	***	***
60	921.6	381.0	71.5	70.3	768.8	774.7	763.6	759.5	413.4	354.3	125.1	118.6	***	***	***	***	***	***
61	922.8	398.6	72.1	70.8	771.8	775.3	770.0	761.3	438.0	365.9	129.3	121.3	***	***	***	***	***	***
62	926.3	420.0	72.7	71.1	773.9	775.2	774.2	762.5	464.3	381.5	133.7	124.3	***	***	***	***	***	***
63	928.6	445.6	73.2	71.5	776.7	775.1	778.3	763.0	491.6	402.3	138.3	127.3	***	***	***	***	***	***
64	929.9	474.3	74.0	71.8	779.8	774.9	782.2	763.2	519.2	428.0	143.0	130.5	***	***	***	***	***	***
65	932.0	504.6	74.9	72.3	784.5	775.4	787.7	763.9	546.5	457.2	***	***	***	***	***	***	***	***
66	932.2	534.9	75.6	72.8	789.5	777.0	792.4	765.7	573.2	488.4	153.5	137.7	***	***	***	***	***	***
67	936.5	562.1	76.1	73.3	794.3	778.7	796.6	767.7	599.1	518.5	158.3	141.7	***	***	***	***	***	***
68	937.0	587.8	76.4	73.7	801.5	781.8	803.8	771.6	623.0	547.6	163.0	145.7	***	***	***	***	***	***
69	938.2	612.9	76.4	73.9	807.8	786.1	808.8	777.0	645.4	576.3	167.8	149.9	***	***	***	***	***	***
70	940.6	633.5	76.6	74.2	811.1	788.0	810.6	779.5	663.3	600.5	173.1	154.4	***	***	***	***	***	***
71	942.8	653.0	77.4	74.7	815.5	791.9	812.8	783.9	679.6	622.5	178.4	159.4	***	***	***	***	***	***
72	942.9	666.8	78.8	75.6	816.2	793.1	810.9	784.3	692.2	639.6	183.9	163.4	***	***	***	***	***	***
73	945.8	678.2	80.6	77.1	817.5	794.1	810.2	784.7	702.4	653.5	189.1	167.2	***	***	***	***	***	***
74	948.0	688.3	82.4	78.8	821.0	796.1	813.1	786.9	711.5	665.8	195.7	171.7	***	***	***	***	***	***
75	949.2	697.9	84.1	80.4	824.5	799.9	815.7	790.1	720.0	677.2	201.4	176.0	***	***	***	***	***	***
76	950.9	706.9	85.6	81.7	826.7	801.2	816.6	792.2	727.0	687.8	207.0	180.1	***	***	***	***	***	***
77	952.2	715.6	86.8	82.7	829.8	803.6	819.0	794.6	733.1	698.4	212.6	184.6	***	***	***	***	***	***
78	954.4	723.2	87.7	83.7	831.1	805.5	819.0	796.1	738.5	707.6	218.3	189.2	***	***	***	***	***	***
79	956.4	730.7	88.4	84.4	832.7	807.4	819.6	797.5	743.4	716.2	224.2	193.1	***	***	***	***	***	***
80	957.8	737.9	89.0	85.0	834.9	809.5	821.1	799.5	747.9	724.4	230.1	196.9	***	***	***	***	***	***
81	959.6	745.1	89.4	85.7	838.2	812.2	823.7	802.4	752.7	732.3	235.8	201.1	***	***	***	***	***	***
82	960.8	751.8	89.7	86.1	841.4	814.8	826.8	804.8	757.0	739.8	241.2	203.8	***	***	***	***	***	***
83	961.5	759.8	89.9	86.5	845.4	818.9	830.2	808.9	762.3	748.2	246.6	207.1	***	***	***	***	***	***
84	964.1	766.9	90.1	86.9	847.9	822.1	832.1	812.2	767.0	755.7	252.0	211.6	***	***	***	***	***	***
85	965.5	772.6	90.2	87.2	851.0	824.6	835.0	814.6	770.9	761.8	257.3	215.3	***	***	***	***	***	***
86	967.8	779.2	90.5	87.4	853.8	828.3	837.2	818.0	775.5	768.6	262.5	217.9	***	***	***	***	***	***
87	969.0	783.6	90.6	87.6	854.5	830.1	837.9	819.3	778.8	773.3	267.8	221.7	***	***	***	***	***	***
88	969.5	789.3	90.8	87.9	855.7	832.7	838.7	821.5	782.3	779.3	273.2	225.8	***	***	***	***	***	***
89	971.4	793.8	91.0	88.1	857.2	834.3	840.0	823.0	785.0	783.9	273.7	231.9	***	***	***	***	***	***
90	972.7	799.4	91.2	88.4	859.2	836.7	841.9	825.3	788.0	789.9	284.1	236.4	***	***	***	***	***	***
91	972.1	804.2	91.4	88.6	860.9	839.2	843.5	827.4	791.1	794.7	289.7	241.1	***	***	***	***	***	***
92	975.3	809.5	91.7	88.8	863.4	841.8	845.8	829.6	794.1	800.2	295.5	244.1	***	***	***	***	***	***
93	976.7	815.4	91.9	89.0	866.4	844.9	848.5	832.5	797.8	806.3	301.5	250.5	***	***	***	***	***	***
94	977.1	822.5	92.1	89.1	873.2	850.3	854.0	837.6	802.7	814.2	307.6	255.2	***	***	***	***	***	***
95	979.1	828.4	92.3	89.4	875.3	855.1	855.4	841.6	808.5	818.8	314.1	262.1	***	***	***	***	***	***
96	980.0	832.1	92.6	89.6	875.3	856.7	855.9	843.1	811.4	822.6	321.1	269.2	***	***	***	***	***	***
97	981.2	836.2	92.8	89.9	875.0	858.2	856.4	844.4	814.1	826.6	328.3	275.9	***	***	***	***	***	***
98	982.5	841.1	93.0	90.0	874.2	859.1	858.3	845.2	816.7	831.1	336.0	282.9	***	***	***	***	***	***
99	984.2	846.0	93.3	90.4	876.7	862.5	859.2	848.1	819.9	836.3	344.4	291.5	***	***	***	***	***	***
100	984.7	850.9	93.5	90.7	879.1	866.4	861.9	851.6	824.1	841.0	353.1	301.8	***	***	***	***	***	***
101	986.4	854.5	93.6	90.7	880.7	869.9	884.2	854.7	828.3	844.4	362.0	312.6	***	***	***	***	***	***
102	988.5	856.2	94.8	91.1	882.3	872.9	866.4	857.7	832.1	846.7	370.9	324.2	***	***	***	***	***	***
103	989.3	857.5	93.3	91.1	883.4	875.6	868.2	860.2	835.4	849.1	379.7	338.8	***	***	***	***	***	***
104	991.0	859.0	94.7	92.1	885.2	879.7	871.9	864.3	840.1	852.9	388.6	353.1	***	***	***	***	***	***
105	991.8	857.8	95.1	91.9	886.8	883.6	874.8	867.7	844.2	853.4	398.3	367.2	***	***	***	***	***	***
106	993.3	860.7	95.3	92.1	890.0	898.6	880.0	873.5	850.4	859.3	407.9	382.8	***	***	***	***	***	***
107	993.8	860.3	95.5	91.7	892.7	892.9	885.1	879.0	857.1	859.8	415.2	393.8	***	***	***	***	***	***
108	995.6	856.0	95.9	91.3	895.8	894.9	888.5	882.7	861.5	858.2	422.1	402.3	***	***	***	***	***	***
109	996.0	911.6	96.3	92.6	894.5	893.1	892.1	886.5	865.0	882.9	428.6	411.6	***	***	***	***	***	***
110	997.1	918.3	96.8	93.3	890.2	894.6	895.2	890.0	867.9	896.1	433.5	419.6	***	***	***	***	***	***
111	997.9	928.3	96.9	94.6	891.0	894.6	899.1	893.8	870.8	897.3	439.0	426.9	***	***	***	***	***	***
112	997.5	939.1	100.3	94.9	888.4	848.9	899.6	894.7	872.7	897.8	443.9	434.0	***	***	***	***	***	***
113	1000.0	944.2	99.6	94.8	885.1	951.3	901.9	897.3	874.7	897.1	447.6	442.0	***	***	***	***	***	***
114	1000.5	942.7	101.8	96.8	920.2	954.1	905.3	900.7	877.3	903.2	451.5	450.1	***	***	***	***	***	***
115	1001.8	945.7	105.3	97.7	953.6	958.0	909.6	904.8	880.1	909.0	455.2	457.1	***	***	***	***	***	***

Table 12. Average Temperatures Measured in Assembly S-18, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation

Legend: BL - Base Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(18.18)	SL/Stud. (Exp.) Av(10.11.24.25)	Mid Stud. Av(12.13.26.27)	BL/Cav. (UnExp.) Av(20.21)	BL/Std. (UnExp.) Av(14.15.28.29)	BL/FL (UnExp.) Av(16.17.22.23.30.31)	UnExp. Av(1.2.3.4.5)
0	38.5	33.0	30.3	28.1	24.1	25.7	23.2	22.0
1	111.7	33.2	30.6	27.8	24.1	25.7	23.2	22.0
2	257.1	37.5	35.1	27.9	24.1	25.7	23.2	22.0
3	327.1	52.8	48.5	28.0	24.1	25.8	23.3	22.0
4	428.1	75.9	72.7	32.7	24.4	26.1	23.1	22.0
5	526.2	87.8	95.1	41.6	24.1	27.3	23.4	22.0
6	562.8	92.8	96.3	59.7	24.4	29.6	23.4	22.1
7	604.1	98.0	96.8	78.7	26.6	34.7	23.6	22.1
8	634.7	102.8	98.5	84.6	33.3	45.2	24.0	22.1
9	667.0	106.4	101.1	88.0	44.5	55.1	25.0	22.1
10	698.9	109.0	104.4	90.0	56.8	61.5	26.8	22.2
11	711.4	111.0	109.6	91.2	65.6	66.4	29.1	22.2
12	721.3	113.0	116.8	91.7	71.1	70.3	31.9	22.6
13	732.8	118.0	126.1	91.7	74.3	73.2	35.0	22.6
14	743.9	136.4	141.1	91.4	75.2	74.9	38.1	23.8
15	754.3	175.8	172.2	91.4	74.4	75.6	41.2	24.0
16	761.0	230.5	204.9	93.1	73.8	76.0	44.1	25.1
17	766.4	293.5	236.9	97.3	76.5	78.9	46.6	26.3
18	774.8	351.0	286.0	104.0	78.1	78.3	48.8	27.7
19	783.0	403.6	282.0	113.1	78.4	80.0	51.1	29.1
20	789.5	449.6	325.2	123.9	78.6	81.9	53.1	30.6
21	795.9	487.9	355.6	136.0	79.8	83.9	55.0	32.0
22	800.8	519.0	385.5	149.0	78.6	85.9	56.8	33.5
23	806.2	545.0	411.9	162.9	78.7	88.4	58.4	35.0
24	811.5	567.1	436.0	177.0	78.7	91.0	60.0	36.5
25	815.9	586.3	460.2	191.3	78.9	93.8	61.4	37.8
26	820.9	603.1	482.0	206.0	79.2	96.8	62.7	39.2
27	824.9	617.8	501.4	220.7	79.3	100.0	63.9	40.5
28	830.2	629.7	518.2	235.4	79.7	103.3	64.9	41.8
29	834.5	639.8	532.8	249.9	80.0	107.1	65.7	42.9
30	838.3	649.3	546.3	264.2	80.2	111.1	61.9	44.0
31	842.4	659.6	559.2	278.5	80.5	115.9	67.5	45.1
32	847.1	669.7	572.5	291.8	81.3	121.0	68.1	46.1
33	848.6	679.2	586.0	306.1	81.8	126.2	68.9	47.1
34	853.7	689.0	599.3	320.6	82.5	131.4	69.6	47.9
35	857.6	697.9	612.5	335.2	83.0	136.8	70.4	48.8
36	861.0	706.8	625.3	349.7	85.6	142.2	71.2	49.7
37	863.6	716.5	637.0	364.0	86.9	147.4	72.1	50.1
38	866.2	724.9	648.5	378.4	90.3	152.8	73.0	51.1
39	869.8	733.0	658.5	392.8	92.4	158.1	73.9	51.7
40	874.1	741.7	671.1	407.5	96.3	163.6	74.9	52.4
41	877.2	750.4	682.3	423.0	99.3	169.4	76.0	52.9
42	878.8	758.1	694.2	439.2	104.6	175.4	77.0	53.4
43	882.3	765.9	704.2	456.2	108.2	181.4	78.1	54.0
44	881.6	773.6	712.4	474.1	115.2	187.3	79.2	54.5
45	888.0	779.3	720.3	493.0	121.4	194.1	80.3	55.2
46	889.5	785.9	727.6	513.6	128.5	201.3	81.5	55.8
47	891.9	792.9	734.3	537.0	136.5	208.9	82.7	56.4
48	896.0	799.2	740.4	564.3	145.7	217.1	83.9	56.9
49	898.0	805.9	746.9	593.0	156.0	225.7	85.1	57.6
50	900.8	812.1	752.3	620.1	167.7	234.9	86.2	58.0
51	903.0	806.5	757.1	643.4	180.7	244.8	87.2	58.6
52	905.2	812.3	761.9	663.0	195.0	254.8	88.3	59.0
53	907.2	818.4	767.1	679.7	210.1	265.2	89.4	59.6
54	908.3	821.9	770.8	692.6	225.7	277.4	90.5	60.1
55	911.0	824.2	773.7	703.2	241.9	281.1	91.8	60.9
56	912.0	826.3	776.4	712.4	258.8	306.6	93.1	61.3
57	913.7	827.2	778.3	720.3	276.0	323.5	94.4	62.0

Table 12. Average Temperatures Measured in Assembly S-18, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Legend: BL - Base Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(16,18)	BL/Std. (Exp.) Av(10,11,24,25)	Mid Stud. Av(12,13,26,27)	BL/Cav. (UnExp.) Av(20,21)	BL/Std. (UnExp.) Av(14,15,26,29)	BL/FL (UnExp.) Av(16,17,22,23,30,31)	UnExp. Av(1,2,3,4,5)
56	916.8	828.3	780.4	728.1	293.4	343.2	95.9	62.7
59	921.1	828.1	782.3	735.8	310.9	364.9	97.4	63.6
60	921.6	826.7	784.0	743.5	328.9	388.3	99.0	64.4
61	922.6	824.9	786.0	751.9	348.3	413.7	100.5	65.1
62	923.3	819.9	787.2	758.1	370.2	440.8	102.1	65.9
63	923.6	814.5	788.7	764.0	395.0	469.2	103.8	66.5
64	923.0	807.9	790.4	768.8	422.8	486.2	105.6	67.0
65	932.0	802.5	792.7	774.7	452.4	527.2	91.0	67.5
66	932.2	797.6	795.5	779.3	482.7	555.7	109.8	67.9
67	936.5	783.2	797.9	783.3	511.6	582.4	111.8	68.3
68	937.0	791.4	801.9	789.5	539.5	607.6	113.8	68.7
69	934.2	791.1	806.4	795.0	566.3	631.2	115.7	69.0
70	940.6	790.4	808.6	798.0	589.4	650.3	118.1	69.4
71	941.3	791.6	812.1	801.7	610.7	667.7	120.8	69.6
72	942.0	790.9	813.0	802.5	628.1	681.4	124.1	69.9
73	945.0	790.9	814.1	803.4	643.4	693.1	127.6	70.1
74	946.0	791.3	816.1	805.8	656.6	702.6	132.1	70.3
75	949.7	791.9	818.7	808.1	668.1	711.5	136.7	70.6
76	950.3	792.8	820.8	809.8	678.4	719.4	141.2	70.7
77	952.2	794.2	823.3	811.8	688.2	726.7	145.7	70.8
78	954.1	795.4	824.9	812.7	696.7	733.2	150.2	71.0
79	956.4	796.6	826.7	813.9	704.6	739.1	154.7	71.2
80	957.8	798.3	828.7	815.4	711.8	744.8	158.8	71.1
81	959.6	800.4	831.6	817.8	718.8	750.5	162.8	71.3
82	960.8	802.5	834.2	820.2	725.3	756.0	166.2	71.3
83	961.1	805.5	838.2	823.2	732.2	762.5	169.5	71.4
84	964.1	809.3	841.3	825.3	738.5	768.4	172.9	71.6
85	965.6	810.3	844.0	827.5	743.9	773.2	176.1	71.7
86	967.0	813.3	847.8	829.8	749.8	778.9	178.1	71.9
87	969.0	814.9	849.4	830.7	754.3	782.9	182.1	72.3
88	969.5	817.6	852.0	832.1	759.5	787.5	185.2	72.7
89	971.4	819.4	853.9	833.4	763.8	791.2	188.6	73.1
90	977.1	822.0	856.6	835.3	768.5	795.5	191.7	73.6
91	972.2	824.3	859.0	837.0	772.8	799.4	194.7	74.0
92	975.3	826.9	862.1	839.3	777.3	803.5	197.4	74.5
93	975.7	830.3	865.9	842.1	782.5	808.3	200.8	75.1
94	977.1	834.8	872.7	846.9	788.5	814.6	203.8	75.5
95	970.1	838.6	876.4	849.2	794.4	820.2	207.4	76.1
96	980.0	840.5	878.1	850.3	799.3	823.3	211.1	76.9
97	981.7	842.8	879.7	851.3	803.3	826.1	215.0	77.7
98	982.5	845.4	881.3	852.2	806.7	828.9	219.0	78.2
99	984.2	848.9	885.5	855.6	811.8	832.1	223.7	79.3
100	984.7	852.5	891.7	859.7	817.2	836.0	228.8	80.1
101	986.4	855.6	895.8	861.3	821.8	839.7	233.9	80.7
102	986.3	857.9	898.1	863.4	825.1	844.7	239.8	81.8
103	989.3	860.0	900.4	865.5	828.1	856.4	245.7	82.7
104	991.0	864.7	909.0	870.3	833.6	865.1	252.5	83.9
105	991.3	871.0	912.4	873.8	837.2	868.5	256.7	84.9
106	993.3	897.5	927.3	879.5	842.6	873.4	265.4	85.1
107	998.8	908.6	932.5	884.2	846.7	877.2	271.4	87.0
108	995.6	912.5	934.7	887.7	848.4	875.6	277.7	88.0
109	993.0	914.9	935.4	891.4	880.4	882.8	285.1	89.0
110	997.1	919.0	937.3	894.9	888.2	896.2	291.5	90.0
111	997.1	922.0	937.5	898.4	897.3	908.2	298.3	91.0
112	997.5	925.1	941.5	900.3	906.1	909.7	304.3	91.9
113	1000.0	928.8	941.6	902.7	910.2	913.0	309.7	92.9
114	1000.5	932.7	951.4	906.6	908.1	916.3	316.9	94.1
115	1001.3	936.4	962.2	910.4	905.9	915.7	321.2	95.1

Table 12. Average Temperatures Measured in Assembly S-18, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Legend: BL - Base Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(18,19)	BL/Std. (Exp.) Av(10,11,24,25)	Mid Stud. Av(12,13,26,27)	BL/Cav. (UnExp.) Av(20,21)	BL/Std. (UnExp.) Av(14,15,28,29)	BL/FL (UnExp.) Av(16,17,22,23,30,31)	UnExp. Av(1,2,3,4,5)
116	1009.8	939.8	967.6	914.0	904.9	915.2	326.2	96.2
117	1009.6	939.7	968.7	913.4	899.9	912.8	332.2	97.4
118	1009.0	941.4	968.6	916.2	901.9	915.4	337.3	98.5
119	1004.7	942.5	966.9	918.8	903.9	919.5	343.2	99.5
120	1004.7	944.1	965.8	920.6	904.8	921.8	350.0	100.7
121	1009.3	946.0	962.8	922.3	908.0	928.4	357.8	101.7
122	1008.0	948.7	963.0	926.3	912.4	934.9	368.1	102.9
123	1004.6	946.5	956.8	924.1	920.4	936.6	375.8	103.7
124	1007.0	948.5	960.2	924.4	910.6	937.1	385.2	104.6
125	1007.2	948.9	961.4	924.8	916.8	946.1	393.5	105.5
126	1006.2	947.5	960.2	924.1	925.5	942.2	402.1	106.8
127	1006.2	949.3	963.8	925.6	938.8	946.3	408.3	108.2
128	1010.4	947.4	967.0	928.0	943.5	950.7	416.1	110.5
129	1011.8	947.8	967.6	928.7	944.5	949.8	423.8	113.4
130	1010.8	950.9	969.1	930.0	937.5	945.9	432.6	116.3
131	1014.6	951.5	972.2	932.9	940.5	946.5	441.8	121.1
132	1014.2	952.1	973.3	936.0	941.4	947.4	449.8	126.4
133	1018.3	954.8	973.2	938.0	942.8	950.4	458.0	130.9
134	1016.7	957.3	974.1	939.0	950.6	951.5	467.0	136.1
135	1019.2	957.8	974.3	942.1	959.5	965.0	476.6	142.0

Table 13. Temperatures Measured in Assembly S-21, Steel Stud, 2x2 Gypsum Board Layers, Cellulosic Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	22.4	20.6	20.8	20.6	20.4	20.6	20.5	20.1	20.0	20.0	21.0	20.9	21.0	20.8	21.2	20.9	21.0	20.7	21.0	20.7	21.1
1	139.2	20.6	20.8	20.7	20.4	20.7	20.4	20.0	20.1	21.3	21.1	21.2	20.8	21.0	20.9	21.2	20.7	20.9	20.6	21.6	
2	231.1	20.5	20.8	20.6	20.4	20.6	20.5	20.2	20.0	20.0	38.6	25.2	21.2	21.0	21.2	20.8	21.0	20.8	20.5	34.3	
3	330.3	20.5	20.7	20.6	20.3	20.5	20.4	20.0	19.9	19.9	77.9	37.1	22.1	21.4	21.2	20.7	21.1	20.9	20.8	20.4	54.7
4	442.1	20.6	20.8	20.6	20.3	20.4	20.6	20.3	20.0	20.1	95.1	80.7	27.2	22.7	21.5	21.1	21.1	20.7	20.9	20.7	73.2
5	536.0	20.5	20.7	20.6	20.4	20.6	20.4	20.3	19.9	19.9	95.0	93.9	37.9	29.4	22.3	21.5	21.2	20.7	20.9	20.6	82.0
6	570.1	20.5	20.7	20.6	20.3	20.6	20.5	20.1	20.0	20.0	94.9	93.6	53.6	44.3	24.8	22.9	21.8	20.9	20.8	20.4	86.2
7	602.7	20.5	20.7	20.6	20.3	20.6	20.8	20.2	20.0	20.1	95.7	95.5	68.2	63.5	29.9	26.7	22.5	21.5	21.0	20.6	92.5
8	636.2	20.5	20.7	20.5	20.3	20.5	20.4	20.1	19.9	20.0	96.8	95.8	77.2	80.3	37.1	34.3	24.6	22.7	21.1	20.6	100.5
9	667.1	20.5	20.7	20.6	20.3	20.6	20.8	20.2	19.9	20.0	105.4	96.7	83.7	89.6	45.0	47.4	28.3	24.5	21.6	20.8	106.9
10	699.0	20.5	20.7	20.5	20.3	20.5	20.4	20.1	19.9	19.9	113.4	99.4	88.3	94.4	54.0	60.3	33.4	28.0	22.5	21.0	110.4
11	710.7	20.4	20.6	20.5	20.3	20.5	20.3	19.9	19.8	19.8	127.0	103.8	91.5	85.9	62.6	71.9	40.2	33.4	23.8	21.3	109.6
12	721.1	20.4	20.6	20.5	20.2	20.5	20.3	19.9	19.7	19.8	141.6	108.4	93.3	96.3	69.7	80.7	47.2	41.0	25.8	22.3	108.9
13	732.7	20.5	20.7	20.5	20.3	20.6	20.5	20.2	19.8	20.0	154.2	111.4	94.4	96.3	74.9	86.0	53.3	48.9	28.3	24.2	111.6
14	743.2	20.4	20.6	20.5	20.3	20.5	20.3	20.0	19.8	19.9	168.3	116.8	95.1	96.2	78.1	87.8	58.2	55.6	30.7	25.5	126.4
15	754.4	20.4	20.6	20.7	20.4	20.6	20.3	20.0	19.7	19.9	184.9	134.0	95.2	95.9	79.7	88.0	61.3	59.8	33.4	28.1	162.7
16	761.5	20.4	20.7	21.2	20.5	20.8	20.5	20.2	19.7	20.1	196.3	184.1	95.7	95.0	80.5	87.8	64.0	62.4	35.8	31.1	204.8
17	768.5	20.5	20.8	22.0	20.7	20.9	20.6	20.5	19.8	20.2	205.6	189.7	96.4	94.0	82.0	87.0	66.5	64.7	38.1	33.4	233.7
18	775.2	20.5	21.0	23.1	21.1	21.1	20.7	20.8	19.8	20.2	216.3	204.8	96.9	95.6	84.2	87.2	69.7	66.3	40.2	35.1	245.4
19	782.8	20.6	21.3	24.6	21.5	21.6	21.1	21.9	19.9	20.5	229.2	225.5	97.3	95.7	85.5	88.0	72.1	67.6	42.7	38.5	266.9
20	789.4	20.7	21.6	26.2	22.0	21.9	21.3	22.7	20.0	20.8	241.1	242.6	97.6	96.2	86.5	87.6	74.1	68.9	43.9	38.4	285.9
21	794.8	21.0	22.1	28.0	22.6	22.5	21.8	23.8	20.2	21.2	255.0	256.3	97.9	96.7	87.4	87.9	75.8	69.6	45.9	40.9	302.1
22	799.8	21.3	22.8	30.0	23.3	23.2	22.4	25.7	20.6	21.7	272.0	268.9	98.1	97.1	88.5	88.2	77.3	70.5	47.9	42.4	319.5
23	805.5	21.7	23.5	31.9	24.1	23.9	22.9	27.0	21.1	22.0	288.3	280.4	98.3	97.6	89.4	88.3	78.9	71.5	48.8	42.7	336.7
24	811.0	22.3	24.4	33.8	24.9	24.6	23.2	26.9	21.4	22.4	303.2	292.0	99.6	98.3	90.3	88.7	80.7	72.4	49.7	44.0	353.5
25	816.3	23.1	25.6	35.8	25.9	25.7	24.2	29.4	21.9	23.1	317.0	304.1	101.2	99.9	91.2	89.0	82.2	73.5	51.3	45.1	369.3
26	820.8	24.0	26.9	37.7	27.0	26.9	25.0	30.7	22.6	24.0	332.2	316.9	104.3	102.2	92.0	89.5	83.6	74.6	54.4	47.0	384.4
27	825.3	25.0	28.3	39.5	28.1	28.2	25.8	32.2	23.3	24.9	348.9	330.4	108.1	104.8	92.6	89.9	84.7	75.7	55.1	48.1	399.2
28	829.5	26.2	29.8	41.3	29.4	29.4	26.4	32.6	23.8	25.0	365.9	344.5	111.8	107.2	93.0	90.3	85.6	77.0	56.1	49.2	413.5
29	833.9	27.5	31.4	42.9	30.6	30.9	27.1	33.3	24.0	25.0	381.0	359.0	114.4	109.7	93.5	90.6	86.3	78.1	57.4	50.8	428.0
30	837.6	28.9	33.1	44.5	32.0	32.5	28.0	34.6	25.1	26.2	394.3	372.8	116.3	112.3	93.8	91.0	87.0	79.2	58.6	53.0	441.8
31	840.6	30.4	34.9	46.0	33.4	34.0	28.7	35.3	26.1	27.6	408.4	386.0	117.8	114.5	94.1	91.4	87.4	80.1	59.8	54.8	452.8
32	846.3	32.0	36.8	47.5	34.9	35.7	29.6	35.9	26.7	28.3	422.3	398.7	119.1	116.4	94.3	91.6	87.6	81.0	60.9	56.3	464.5
33	850.0	33.7	38.6	48.8	36.4	37.3	30.6	36.5	27.3	29.2	437.5	411.0	120.4	118.0	94.4	91.8	87.8	81.7	61.9	57.7	475.4
34	852.7	35.4	40.4	50.1	37.9	39.1	31.9	37.1	28.2	29.2	455.5	423.3	121.7	119.6	94.6	91.8	87.8	82.4	62.9	59.1	485.8
35	856.6	37.2	42.3	51.3	39.4	40.6	33.4	38.8	29.0	30.0	471.7	434.4	123.4	121.5	94.8	91.9	87.8	82.8	63.9	60.5	496.2
36	860.4	38.9	44.0	52.5	40.9	42.3	34.3	39.3	29.3	31.0	485.2	442.7	126.0	123.7	95.0	92.1	87.7	83.1	64.9	61.8	507.4
37	863.6	40.5	45.4	53.3	42.3	43.7	34.8	40.0	30.4	33.5	496.9	453.0	129.0	126.1	95.2	92.4	87.6	83.4	65.8	63.1	517.8
38	866.6	42.1	46.8	54.1	43.6	44.9	35.5	40.0	31.6	34.6	508.6	463.7	131.9	128.4	95.5	92.6	87.9	83.5	66.4	63.9	527.5
39	869.4	43.7	48.0	54.9	44.9	46.1	36.4	40.7	31.9	34.2	519.3	474.8	139.9	131.2	95.9	93.1	86.8	83.5	67.0	64.7	537.1
40	872.4	45.1	49.1	55.5	46.1	47.1	37.4	41.0	31.9	34.3	530.1	485.8	154.1	137.2	96.6	93.6	86.5	83.5	67.5	65.2	546.7
41	876.1	46.3	49.9	56.0	47.1	48.0	38.1	40.9	32.4	34.7	541.8	497.7	165.6	150.3	97.6	94.5	85.7	83.2	67.8	65.3	556.9
42	878.9	47.4	50.5	56.4	48.0	48.8	39.1	42.1	33.5	36.1	554.0	509.9	186.8	161.1	99.3	95.7	84.7	82.9	67.7	65.4	568.3
43	881.8	48.4	51.0	56.6	48.8	49.5	39.5	41.9	32.9	35.5	566.3	522.3	206.0	179.0	102.1	97.3	84.3	82.5	67.8	65.5	580.0
44	884.0	49.2	51.4	56.8	49.4	50.0	40.0	42.0	33.8	36.1	578.6	534.5	223.8	196.1	105.9	100.0	84.2	82.0	67.9	65.8	592.7
45	885.6	50.0	51.8	57.0	50.1	50.6	40.5	42.3	33.4	37.4	590.1	546.7	240.5	212.4	110.8	104.0	84.6	82.0	68.9	66.3	604.5
46	890.5	50.6	52.0	57.0	50.4	50.8	40.9	41.8	33.9	36.2	600.8	558.5	258.5	228.2	117.0	109.1	86.5	82.6	68.9	67.7	615.5
47	891.7	50.8	51.9	56.9	50.6	50.9	40.9	41.9	33.5	37.7	610.9	570.2	276.1	243.6	123.5	115.2	87.6	83.9	69.7	68.2	627.2
48	894.7	51.2	52.1	56.9	50.9	51.1	41.2	42.0	33.8	37.3	621.3	581.9	292.2	258.4	130.3	121.4	87.9	85.2	70.4	69.0	638.1
49	898.2	51.5	52.4	56.9	51.1	51.6	40.9	41.2	32.7	35.9	631.5	593.2	307.2	273.3	137.4	128.1	88.1	86.1	71.0	69.8	649.6
50	899.5	51.7	52.7	56.9	51.4	51.8	41.4	41.8	33.6	36.6	641.4	604.3	321.4	287.6	144.8	135.0	88.5	86.9	7		

Table 13. Temperatures Measured in Assembly S-21, Steel Stud, 2x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	915.4	53.4	54.9	57.0	53.1	53.4	42.3	41.2	32.9	37.0	734.6	680.9	416.6	408.1	208.3	199.0	105.4	96.5	76.1	75.1	732.6
59	919.7	53.7	55.3	57.0	53.3	55.0	42.6	42.0	33.3	37.7	743.6	688.9	426.9	419.6	217.0	208.2	109.7	98.7	77.1	75.8	739.1
60	921.2	53.9	55.5	57.1	53.4	55.1	42.9	41.9	33.9	38.2	752.2	697.1	436.9	430.6	225.8	217.5	114.2	101.4	78.1	76.2	746.0
61	923.7	54.1	55.7	57.1	53.5	55.0	42.8	41.7	33.5	38.0	760.1	705.0	446.5	440.8	234.7	227.0	119.2	104.4	79.5	77.0	752.1
62	925.8	54.4	56.0	57.2	53.8	56.0	42.9	41.7	33.7	37.9	768.1	713.2	455.7	450.4	243.8	236.7	124.3	107.6	81.0	77.6	757.7
63	928.0	54.6	56.2	57.3	53.9	56.5	43.4	42.4	33.9	38.4	776.0	721.5	465.0	459.3	252.9	246.4	129.6	111.0	82.6	78.2	763.9
64	930.4	54.8	56.4	57.4	54.0	56.8	43.2	41.5	33.3	38.2	783.9	730.0	473.7	467.7	262.1	256.2	134.9	114.6	83.9	78.7	769.8
65	931.3	55.0	56.6	57.5	54.1	57.4	43.6	42.4	34.1	39.1	791.8	738.8	482.1	475.9	271.2	266.1	140.3	118.4	85.0	79.4	776.2
66	934.4	55.2	56.8	57.6	54.2	57.5	43.6	41.8	33.9	38.9	799.3	747.1	490.3	484.1	280.4	275.9	145.8	122.3	86.1	80.0	782.1
67	936.4	55.5	57.0	57.8	54.3	58.0	43.8	42.3	34.2	39.2	807.8	756.3	498.1	491.1	289.7	285.7	151.4	126.4	87.2	80.6	788.8
68	938.5	55.7	57.2	58.0	54.4	58.2	43.9	42.6	33.9	40.3	814.5	763.9	505.7	497.8	298.0	295.4	156.9	130.6	88.6	81.2	783.9
69	938.9	55.8	57.3	58.1	54.5	56.8	44.1	42.1	34.6	40.3	822.5	771.9	513.3	505.1	308.0	305.0	162.7	134.9	90.1	81.6	801.1
70	940.4	56.0	57.4	58.3	54.6	56.8	44.2	42.7	34.2	40.1	828.8	779.2	520.8	513.0	317.0	314.7	168.2	139.5	91.9	82.2	806.7
71	942.5	56.2	57.6	58.5	54.7	57.0	44.3	42.8	34.2	40.6	836.3	787.0	528.5	521.3	325.9	324.3	173.8	144.6	93.6	82.3	814.0
72	943.4	56.5	57.9	58.8	54.9	58.0	44.3	42.6	34.0	40.8	841.9	794.0	536.3	529.8	334.7	333.7	179.0	150.4	95.3	82.6	819.3
73	944.5	56.8	58.1	59.1	55.2	59.3	44.4	43.1	34.4	41.9	846.8	800.6	543.7	538.1	343.3	343.2	184.6	156.7	97.0	83.2	823.7
74	946.5	57.0	58.3	59.3	55.5	58.5	44.4	42.8	33.7	41.2	852.7	806.8	550.9	546.3	351.7	352.4	190.4	163.1	98.4	83.9	827.7
75	947.7	57.3	58.4	59.6	55.7	58.7	44.7	43.3	34.6	42.2	858.0	812.6	558.4	554.2	359.8	361.4	195.8	169.3	100.1	84.9	831.0
76	950.2	57.6	58.7	60.0	56.1	59.9	45.0	43.7	34.5	42.2	863.2	818.8	565.8	562.3	367.7	370.0	200.9	175.3	101.6	86.0	836.2
77	951.6	58.0	59.0	60.3	56.6	60.4	45.0	43.6	34.6	43.6	868.2	825.7	573.1	570.3	375.5	378.2	206.3	181.1	103.0	87.6	842.3
78	954.4	58.4	59.2	60.7	57.0	60.8	45.3	43.7	35.6	44.5	872.0	831.5	580.2	578.3	383.1	385.9	211.7	186.5	104.6	89.0	846.3
79	954.8	58.7	59.4	61.0	57.4	60.3	45.5	43.7	34.9	43.6	875.4	837.1	587.1	586.0	390.5	393.1	217.2	191.5	106.0	90.2	850.6
80	957.8	59.2	59.7	61.4	57.9	61.8	45.9	44.7	35.1	44.3	879.0	841.6	593.7	592.3	397.8	399.8	223.0	196.2	107.6	91.1	854.1
81	959.7	59.5	59.9	61.8	58.3	60.6	46.0	45.0	35.1	44.5	883.0	846.1	601.7	600.4	405.1	406.2	229.1	200.7	109.2	91.9	857.6
82	960.5	60.0	60.3	62.3	58.8	62.4	46.3	45.4	35.6	45.1	885.5	850.2	608.3	607.2	412.3	412.4	235.1	205.1	110.9	92.6	860.0
83	962.2	60.2	60.4	62.6	59.1	61.5	46.4	45.5	35.7	45.4	890.0	854.6	613.9	614.0	419.5	418.1	241.3	209.3	112.5	93.2	863.0
84	964.2	60.7	60.8	63.2	59.5	62.8	46.6	46.0	36.1	44.9	894.1	859.3	619.2	619.8	426.8	423.7	247.8	213.7	114.5	93.6	865.3
85	965.6	61.1	61.2	63.7	59.9	63.1	47.2	47.1	36.4	46.3	896.6	863.1	624.6	625.0	434.1	428.7	254.3	217.9	116.5	94.1	866.5
86	967.2	61.6	61.5	64.2	60.2	63.2	47.2	47.3	36.2	45.9	899.8	866.7	630.0	629.9	441.5	433.4	260.9	221.8	118.6	94.5	868.4
87	968.0	61.8	61.6	64.7	60.4	63.1	47.6	47.6	37.8	46.3	905.6	870.9	635.3	634.6	448.7	438.0	267.8	225.5	120.7	95.0	871.7
88	969.0	62.6	62.1	65.3	60.8	63.2	48.1	48.1	36.9	46.3	910.3	874.4	640.7	639.3	456.2	442.4	274.7	229.3	123.0	95.6	874.4
89	971.8	63.2	62.4	65.9	61.2	63.9	48.0	48.1	37.5	46.0	914.6	878.0	646.4	643.8	463.5	446.8	281.9	232.9	125.5	96.2	876.8
90	972.1	63.3	62.5	66.2	61.3	63.5	48.3	48.7	37.2	46.1	943.2	927.5	652.0	648.5	470.8	451.1	289.4	236.6	129.0	97.0	881.0
91	973.6	63.8	63.0	66.6	61.6	63.6	48.8	49.6	37.8	46.8	952.4	944.0	659.0	654.2	478.2	455.4	297.0	240.3	130.7	97.8	884.1
92	973.3	63.8	63.4	66.8	61.8	64.0	49.1	50.7	38.3	48.6	952.4	949.0	668.3	661.8	485.7	459.9	304.9	243.9	133.5	98.9	887.2
93	976.5	64.3	64.1	67.2	62.2	65.2	49.9	51.4	38.8	48.9	951.6	948.1	677.1	669.4	493.6	464.8	313.1	247.7	136.5	100.2	890.3
94	977.6	64.8	64.7	67.6	62.5	64.7	50.2	51.5	39.1	48.5	953.3	951.4	684.9	677.0	501.6	470.0	321.5	251.8	139.7	101.5	893.8
95	977.5	65.2	65.5	68.1	63.0	65.1	50.3	51.8	38.7	48.4	952.0	951.1	693.1	684.5	509.7	475.4	330.0	255.9	143.0	102.9	897.3
96	979.8	65.6	66.4	68.6	63.3	65.7	50.9	52.7	40.6	49.0	952.6	951.5	700.8	692.4	518.0	481.1	338.2	260.2	146.6	104.4	900.9
97	981.5	66.4	67.4	69.2	63.6	66.0	51.2	53.5	40.2	48.8	951.2	950.9	708.3	700.8	526.5	487.0	345.5	265.0	150.3	106.1	903.8
98	982.0	67.0	68.6	69.8	63.8	66.2	51.2	53.9	38.9	46.9	949.9	950.8	715.2	709.3	535.2	493.1	353.6	270.2	154.3	107.7	906.6
99	983.2	68.0	69.9	70.3	64.2	66.6	51.6	53.8	38.1	47.9	947.0	947.4	721.8	718.2	544.3	499.6	362.7	276.2	158.6	109.4	909.1
100	985.2	68.4	71.0	70.9	64.6	67.1	52.4	54.6	41.3	49.2	944.5	945.6	728.4	727.0	554.1	506.4	371.9	283.0	163.2	111.1	911.3
101	986.9	68.5	71.9	71.4	64.9	67.1	53.0	55.7	40.0	49.4	944.4	946.2	734.7	735.4	564.5	513.5	380.3	291.0	168.0	112.9	913.7
102	988.2	68.4	72.7	71.9	64.9	68.6	54.0	56.4	41.8	48.9	941.0	943.6	741.0	743.4	575.1	521.0	386.2	300.4	173.1	115.0	917.3
103	989.7	69.9	73.8	72.5	65.9	68.3	54.8	57.3	41.5	49.8	938.7	942.7	748.3	750.6	586.3	528.5	394.9	311.2	178.4	116.8	920.3
104	988.6	69.3	75.2	72.8	65.8	69.8	54.8	56.1	41.9	49.0	930.8	937.6	754.8	756.8	597.6	536.3	405.0	324.1	184.3	118.8	920.7
105	991.7	69.5	75.9	73.3	66.1	68.7	55.5	57.4	43.0	49.0	930.0	938.0	760.4	761.9	608.5	544.0	415.5	337.4	190.8	120.6	920.4
106	992.2	69.9	75.5	73.8	66.7	67.6	56.4	58.7	42.7	50.1	925.5	935.7	765.9	766.3	619.3	551.7	426.5	351.6	198.0	122.7	919.5
107	993.6	69.9	75.0	73.8	67.1	70.3	56.1	58.5	42.1	47.9	922.8	934.1	7								

Table 13. Temperatures Measured in Assembly S-21, Steel Stud, 2x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
118	1001.8	72.2	75.7	74.7	69.0	74.5	59.4	60.6	46.6	51.5	908.5	918.3	794.2	778.3	704.7	610.3	595.8	492.1	261.7	143.7	877.2
117	1002.1	72.9	75.5	74.5	69.2	75.5	59.8	60.6	48.3	53.6	908.7	916.6	794.8	778.9	711.1	614.6	545.1	503.8	268.4	146.4	872.5
118	1003.4	73.6	75.2	73.8	69.6	79.4	59.7	60.8	48.5	53.7	908.4	915.5	794.6	779.2	717.0	618.9	553.8	514.3	275.3	149.6	868.0
119	1004.4	74.4	75.1	74.1	70.1	78.4	59.8	61.1	47.4	54.3	908.4	914.7	795.0	779.5	722.7	622.9	562.8	524.5	282.6	152.3	863.8
120	1003.6	75.0	75.0	73.8	70.6	78.8	59.6	60.5	46.9	53.8	906.8	912.2	794.6	779.7	727.9	626.5	570.7	533.3	290.1	154.8	860.0
121	1005.7	75.5	74.8	73.7	71.2	81.1	59.7	60.1	47.4	53.7	906.3	910.5	794.7	778.6	732.5	630.0	578.5	542.2	298.7	157.3	856.8
122	1006.9	76.1	74.8	73.2	71.7	86.0	59.9	59.9	47.8	55.5	907.0	907.9	794.0	779.7	736.8	633.1	586.4	550.8	308.3	159.4	854.0
123	1007.0	76.7	74.9	73.2	72.2	85.9	60.1	60.4	47.4	55.6	907.1	907.5	793.9	780.1	740.7	636.1	594.7	558.3	318.8	161.2	850.9
124	1007.4	77.3	75.0	73.2	72.8	86.7	60.3	60.5	49.6	58.1	907.0	905.5	793.5	780.1	744.5	639.2	602.9	565.6	330.4	162.8	848.2
125	1008.5	77.8	75.1	73.4	73.1	86.6	60.6	60.5	48.3	56.6	907.9	903.7	793.1	780.2	748.2	642.0	611.3	573.5	342.7	164.4	845.5
126	1008.9	78.3	75.3	73.5	73.5	87.6	60.0	60.2	46.2	55.2	907.1	902.2	792.9	781.0	751.5	645.0	619.1	580.5	354.5	165.8	842.9
127	1008.1	78.8	75.6	73.7	74.1	88.7	60.8	61.1	47.6	57.8	905.9	899.6	792.4	782.1	754.9	648.6	626.6	587.3	365.4	167.3	839.9
128	1010.9	79.3	76.3	74.4	74.8	88.3	60.8	60.1	47.5	57.9	906.3	899.4	792.7	783.6	757.7	651.9	633.1	594.2	374.7	168.7	838.9
129	1010.8	79.9	77.7	75.2	75.2	89.6	60.9	60.5	47.6	58.7	905.7	897.5	793.0	784.6	760.1	655.2	639.3	599.5	383.3	170.2	837.6
130	1010.8	80.5	79.8	76.5	75.5	89.5	60.7	59.9	47.7	57.5	904.8	896.0	793.3	785.7	762.4	658.7	645.3	606.1	391.8	171.9	835.9
131	1012.6	81.1	82.6	78.0	75.9	90.7	61.1	61.8	46.5	59.3	904.8	895.2	793.5	786.8	764.4	661.4	651.1	612.7	400.7	173.7	834.4
132	1014.0	82.0	85.8	79.8	76.4	94.1	61.2	61.7	47.7	62.1	904.7	894.1	793.3	788.4	766.1	663.5	656.4	620.0	412.1	175.6	832.7
133	1014.0	83.2	89.0	82.4	76.7	93.4	61.4	62.3	47.9	62.6	903.9	892.9	793.6	790.1	768.0	666.8	661.6	627.7	420.5	177.7	832.1
134	1015.0	84.5	92.0	84.7	77.1	92.7	61.8	63.0	46.6	63.6	904.0	893.2	796.2	795.1	771.1	670.2	668.0	641.0	432.1	179.8	833.1
135	1014.1	86.1	94.8	86.9	77.5	95.9	61.1	63.0	46.7	62.0	904.4	892.7	797.8	797.4	774.0	674.1	674.5	650.0	440.7	182.3	832.4
136	1015.3	87.8	97.0	88.9	77.9	97.7	61.2	63.8	46.7	63.2	902.7	891.2	797.0	797.3	775.0	677.5	678.9	655.6	449.4	184.9	830.7
137	1017.1	89.7	99.2	90.7	78.4	97.8	61.7	64.7	47.2	66.4	903.9	891.4	798.7	799.9	776.8	680.5	685.0	665.3	457.7	187.7	831.0
138	1016.6	91.4	100.7	92.2	78.9	98.2	61.3	65.0	45.8	66.1	907.5	899.2	811.4	818.0	785.3	684.7	703.6	696.5	465.7	190.3	841.2
139	1019.1	93.0	102.0	93.6	79.5	98.5	61.4	66.2	46.8	66.3	910.8	905.1	818.5	834.3	793.6	691.6	718.0	727.3	473.9	193.4	845.6
140	1019.1	94.3	103.1	95.1	80.5	98.7	60.8	65.8	46.4	67.6	926.5	921.9	905.0	860.7	805.4	700.5	738.4	797.7	481.9	196.6	959.9
141	1019.6	95.5	104.1	96.3	81.8	101.5	61.0	66.3	46.4	67.3	938.6	922.5	925.3	873.7	823.5	712.1	779.9	824.6	493.4	200.0	960.3
142	1020.3	96.5	104.9	97.4	83.7	100.4	61.2	67.8	47.5	68.8	940.9	922.8	924.2	877.5	832.5	724.0	798.3	828.8	499.1	204.8	949.5
143	1019.7	97.4	105.5	98.7	86.3	100.5	61.2	67.0	47.4	68.8	942.2	919.9	922.1	880.2	838.5	735.9	806.8	829.3	505.6	209.6	959.4
144	1023.5	98.3	106.0	98.6	89.3	103.8	61.0	67.1	47.7	68.0	943.6	917.5	922.5	883.3	842.3	746.4	813.7	830.0	507.0	215.1	952.1
145	1023.3	99.3	106.6	100.7	102.1	102.1	61.6	68.5	51.0	71.4	948.8	918.2	926.2	886.4	847.4	756.2	822.0	832.3	513.6	221.0	949.5
146	1022.6	100.2	107.2	101.3	93.5	103.4	61.7	68.9	51.9	71.8	945.0	919.3	921.7	891.6	846.1	766.1	822.2	834.8	515.6	227.2	946.1
147	1022.3	101.1	107.8	101.4	95.0	106.9	61.1	67.8	50.0	70.4	947.0	917.1	938.5	894.2	847.9	771.5	828.2	832.7	516.0	233.6	946.4
148	1024.7	102.2	108.3	103.4	97.3	107.9	62.1	70.4	53.6	77.5	947.6	918.6	940.9	896.5	848.7	777.1	829.5	841.3	519.3	240.2	945.3
149	1026.1	103.1	108.7	103.3	98.4	111.5	62.1	71.1	53.8	76.8	948.7	918.8	945.7	899.8	850.5	782.8	832.9	838.3	520.3	247.3	947.0
150	1025.5	104.1	109.5	104.2	99.4	114.9	63.1	72.3	55.6	78.8	946.8	920.2	945.5	901.7	850.7	788.6	834.8	846.1	521.2	254.8	946.8
151	1027.5	105.0	110.2	103.7	100.2	121.3	63.9	73.8	54.9	78.8	949.9	925.4	948.1	902.2	851.9	795.3	837.8	858.8	523.7	262.6	949.7
152	1027.1	105.9	111.2	105.1	101.6	127.9	65.8	75.5	56.1	81.2	951.6	925.9	947.4	897.7	854.0	799.9	841.0	863.7	525.3	270.6	950.5
153	1027.2	106.8	112.4	106.1	102.9	137.5	67.0	77.4	55.8	82.2	952.3	928.7	949.7	899.5	855.2	806.3	844.0	867.1	529.2	279.1	951.1
154	1027.6	107.8	114.0	106.4	103.8	150.3	69.1	80.3	57.6	80.7	953.3	933.1	948.6	903.0	856.4	812.2	844.0	870.6	532.8	288.2	958.4
155	1028.5	108.7	116.4	107.2	104.7	165.0	71.1	81.9	58.9	84.9	952.5	935.7	948.9	905.6	855.9	818.4	845.4	889.8	536.7	298.3	958.3
156	1030.8	109.5	119.5	107.0	105.2	182.5	72.6	84.1	60.6	84.0	955.6	935.9	951.4	904.3	857.4	821.9	848.3	896.2	538.7	309.4	960.4
157	1028.5	110.7	123.4	108.0	106.3	200.5	74.1	85.1	61.2	83.6	956.4	938.9	952.3	903.9	857.1	826.4	850.8	904.1	544.4	321.3	957.0
158	1032.4	111.5	130.8	108.5	107.0	217.7	75.3	87.3	62.1	87.6	955.6	945.1	956.8	911.3	856.7	834.8	855.9	911.7	549.4	334.4	959.3
159	1032.7	112.6	138.8	109.1	107.8	230.7	76.2	89.1	64.5	86.5	956.6	949.4	958.1	917.1	859.1	842.6	860.9	918.1	554.8	348.3	956.9
160	1032.4	114.2	147.0	110.1	108.9	240.2	77.1	91.5	67.7	90.4	956.5	951.4	960.6	913.4	861.4	848.2	864.7	917.6	559.1	362.6	957.2
161	1033.8	116.6	160.9	111.1	109.8	246.2	78.3	91.7	66.2	92.2	956.3	952.6	963.2	910.2	864.4	859.1	869.8	919.5	568.0	376.9	957.3
162	1034.7	121.7	184.2	112.5	110.8	252.3	82.1	93.2	67.9	93.4	956.3	956.6	962.9	908.1	867.4	857.2	875.6	918.6	576.8	390.9	958.8
163	1035.2	131.8	210.4	115.0	112.1	259.9	86.8	96.8	69.4	102.1	956.7	959.5	975.7	911.5	870.5	863.3	882.8	920.5	589.6	404.1	958.8
164	1035.9	151.3	237.2	117.8	113.7	267.3	89.9	98.													

Table 13. Temperatures Measured in Assembly S-21, Steel Stud, 2x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number															
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
0	22.4	21.0	21.1	21.0	21.2	21.0	20.7	21.0	20.8	20.9	20.8	20.9	20.6	20.9	20.7	20.6	20.4
1	139.2	21.3	21.1	21.0	21.1	21.0	20.7	21.6	21.1	20.9	20.9	20.7	20.8	20.7	21.0	20.6	20.5
2	231.1	27.4	21.1	21.0	21.1	21.0	20.7	36.1	27.0	20.8	20.7	21.0	20.7	20.7	20.8	20.5	
3	330.3	41.4	21.3	21.1	21.1	21.0	20.7	58.7	41.9	21.7	21.3	21.0	20.7	20.8	20.7	20.7	20.5
4	442.1	61.7	22.5	21.8	21.1	21.0	20.9	20.7	77.8	52.4	30.3	24.0	21.2	21.0	20.9	20.6	20.6
5	536.0	77.4	25.9	24.0	21.1	21.0	20.9	20.6	84.2	76.4	63.8	49.9	23.4	22.0	21.1	20.6	20.5
6	570.1	83.9	32.7	29.0	21.1	21.0	20.9	20.6	88.3	83.4	78.7	73.0	29.1	26.4	21.7	21.0	20.6
7	602.7	88.2	42.9	38.3	21.1	21.1	20.8	20.6	96.4	91.8	83.1	80.7	40.2	33.8	23.0	22.0	20.8
8	636.2	93.1	55.3	50.8	21.2	21.4	20.9	20.6	103.3	99.3	89.0	86.2	53.8	48.9	24.9	24.1	21.1
9	667.1	101.5	66.7	62.8	21.7	22.2	20.8	20.6	108.8	105.6	91.4	89.8	65.2	73.2	28.3	34.2	21.5
10	699.0	105.2	77.2	73.1	23.1	23.6	20.9	20.6	111.8	110.2	92.6	91.8	76.3	88.6	33.2	64.9	22.2
11	710.7	106.0	83.5	79.4	26.8	28.1	20.9	20.5	114.4	113.7	93.1	93.1	85.0	91.7	40.4	82.1	23.2
12	721.1	106.1	87.3	83.2	33.0	35.2	20.9	20.5	117.8	116.8	93.1	95.2	89.3	92.2	48.5	86.4	24.9
13	732.7	106.7	89.2	85.6	40.2	43.2	20.9	20.5	127.4	125.4	93.0	98.6	90.2	92.2	54.6	87.3	27.2
14	743.2	110.6	89.8	86.6	45.3	50.2	21.2	20.6	155.2	149.1	92.6	103.4	89.4	91.5	58.2	87.1	29.7
15	754.4	126.2	89.6	88.3	48.8	56.1	21.8	20.8	200.6	197.6	93.1	113.6	88.1	90.5	59.9	85.7	32.2
16	761.5	158.8	90.2	91.0	51.4	66.2	22.6	20.8	234.8	237.6	95.0	126.9	86.8	90.5	60.8	84.7	34.6
17	768.5	191.9	91.9	93.9	52.8	73.4	23.9	21.5	259.8	268.0	98.2	145.2	87.7	90.7	61.7	84.9	36.5
18	775.2	224.4	94.5	96.4	54.7	78.1	25.1	22.7	282.5	289.5	98.8	163.2	90.3	93.2	64.1	87.0	38.1
19	782.8	240.8	95.1	98.0	57.9	80.9	26.3	24.7	300.8	308.2	100.3	169.4	91.6	95.0	68.0	87.4	40.3
20	789.4	259.3	96.1	97.9	60.7	82.4	27.8	27.2	315.4	326.1	106.2	173.4	91.9	96.6	71.2	87.1	41.8
21	794.8	277.1	96.9	98.5	63.6	83.3	29.1	29.9	329.5	345.7	110.8	175.0	92.1	98.4	73.2	86.6	44.8
22	799.8	293.7	97.9	99.6	66.1	84.2	30.7	32.9	344.7	366.9	113.6	176.9	92.1	99.8	74.4	86.1	47.0
23	805.6	310.6	99.2	100.8	68.3	85.1	32.4	35.7	359.0	385.7	116.1	181.7	92.0	101.0	75.5	85.6	47.8
24	811.0	326.8	100.5	102.1	70.5	86.1	33.8	38.3	372.5	402.8	118.8	188.4	92.0	102.5	76.3	85.1	50.5
25	816.3	342.2	101.9	103.7	72.2	86.9	35.5	40.9	384.6	419.4	122.2	196.6	92.0	103.8	77.1	84.9	51.4
26	820.8	357.2	103.2	105.4	74.0	87.8	37.3	43.3	396.7	436.4	126.0	205.5	92.0	105.4	77.8	84.6	53.1
27	825.3	371.5	104.5	106.9	75.6	88.7	39.4	45.5	408.5	452.0	131.0	213.9	92.0	107.3	78.4	84.4	54.6
28	828.5	385.2	105.7	108.2	77.0	89.6	40.6	47.6	419.5	466.5	136.2	220.8	92.1	109.5	79.1	84.0	56.0
29	833.9	399.1	106.7	109.3	78.3	90.4	42.1	49.6	431.6	480.8	141.8	228.2	92.3	112.0	79.5	83.9	57.2
30	837.6	413.0	107.4	110.3	79.4	91.0	43.6	51.5	445.0	494.8	148.4	236.6	92.7	114.8	79.9	83.9	58.5
31	840.6	426.9	108.0	111.2	80.3	91.5	45.3	53.5	458.2	507.9	156.5	243.0	93.3	118.0	80.2	83.8	59.5
32	846.3	439.2	108.6	111.9	81.0	91.9	47.0	55.1	471.3	520.1	166.2	250.5	94.1	121.7	80.5	83.7	60.5
33	850.0	452.5	109.3	112.5	81.4	92.1	48.6	56.6	484.3	531.7	177.3	258.0	95.3	125.6	80.8	83.8	61.5
34	852.7	464.7	110.3	113.3	81.7	92.1	50.3	58.0	497.8	543.1	190.5	267.7	96.7	130.0	81.1	84.0	62.4
35	856.6	475.3	111.2	114.3	81.9	92.1	51.8	59.3	511.2	553.9	***	***	***	***	***	***	***
36	860.4	486.0	112.3	115.4	82.1	92.0	53.1	60.4	524.2	564.5	226.2	291.0	100.6	139.4	81.4	85.1	63.7
37	863.6	497.2	114.4	116.9	82.3	91.9	54.2	61.4	536.2	574.5	241.1	312.2	103.3	144.6	81.3	85.7	64.4
38	866.6	508.7	118.0	119.8	82.2	91.7	55.3	62.1	548.1	584.5	255.9	332.7	106.6	148.9	81.4	86.3	64.9
39	869.4	519.1	125.7	124.7	82.0	91.3	56.3	62.8	559.3	594.7	271.6	350.5	110.7	155.6	81.9	86.9	65.1
40	872.4	529.0	135.3	134.6	81.6	90.7	57.2	63.3	570.2	604.9	288.9	365.4	115.7	161.4	82.5	87.6	65.3
41	876.1	538.7	150.5	147.2	81.1	90.2	57.9	63.6	581.0	615.2	311.8	377.4	121.3	167.7	83.1	88.3	65.5
42	878.9	548.7	171.2	165.6	80.0	88.9	58.3	63.8	591.2	625.1	330.9	387.3	127.7	174.4	83.9	89.2	65.6
43	881.8	559.9	193.7	192.6	79.0	87.2	58.7	63.9	600.3	634.4	347.1	398.1	134.9	181.6	85.0	90.3	65.8
44	884.0	573.1	217.4	218.8	78.3	86.0	58.8	63.7	610.6	643.1	360.1	407.9	142.6	189.0	86.3	91.6	66.2
45	886.6	585.7	243.4	245.3	77.9	85.5	59.0	63.4	618.9	649.8	369.7	418.1	150.5	196.4	87.7	93.2	66.5
46	889.5	597.2	278.9	275.2	78.9	86.3	59.9	63.0	624.7	655.8	376.5	427.5	158.8	204.4	89.2	95.1	67.0
47	891.7	608.9	313.0	308.9	80.6	88.9	58.9	62.7	632.8	663.1	388.5	440.0	166.9	212.3	90.8	96.6	67.8
48	894.7	621.0	346.8	334.9	80.8	88.8	59.1	62.6	639.8	670.2	398.8	450.8	174.7	220.1	92.1	98.4	68.2
49	898.2	633.2	374.0	362.6	80.8	88.4	59.4	62.8	647.2	678.2	410.4	460.8	182.7	228.2	93.4	100.6	68.8
50	899.5	645.4	393.1	388.7	81.1	88.6	59.6	62.8	655.2	686.0	423.1	470.8	190.8	236.4	94.8	102.9	69.6
51	901.8	657.6	409.5	410.9	81.4	89.4	59.8	62.7	663.4	693.8	436.7	480.8	199.0	244.9	96.3	105.6	70.3
52	905.4	668.5	424.8	428.8	81.6	90.4	60.0	62.5	670.6	700.5	449.0	489.4	207.5	253.7	98.0	108.7	70.9
53	906.8	679.0	439.1	445.2	81.8	91.6	60.3	62.5	677.8	707.5	462.6	499.5	216.1	262.5	99.8	112.1	71.5
54	909.3	689.2	452.2	460.4	82.2	93.3	60.4	62.4	685.0	713.9	474.1	508.2	224.9	271.7	102.0	115.5	72.3
55	911.1	698.9	464.6	474.7	82.5	95.5	60.7	62.3	692.1	720.4	484.7	516.5	233.6	281.0	104.6	119.1	72.9
56	913.1	707.6	476.0	488.0	82.7	98.1	60.8	62.3	698.7	726.2	495.3	525.1	242.5	290.3	107.3	122.7	73.7
57	916.0	715.3	486.5	500.5	83.0	101.4	61.1	62.3	705.0	731.7	506.1	535.2	251.4	299.5	110.3	126.3	74.6

Table 14. Average Temperatures Measured in Assembly S-21, Steel Stud, 2x2 Gypsum Board Layers, Cellulosic Fibre Insulation

Legend: BL - Base Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/FL (Exp.) Av(10,11,20,21,28,29)	BL/Std. (Exp.) Av(12,13,30,31)	BL/Cav.(Exp.) Av(22,23)	Mld. Std. Av(14,15,32,33)	BL/Cav. (UnExp.) Av(24,25)	BL/Std. (UnExp.) Av(16,17,34,35)	BL/FL (UnExp.) Av(18,19,26,27,36,37)	UnExp. Av(1,2,3,4,5)
0	22.4	21.0	20.9	21.0	20.9	21.1	20.8	20.8	20.6
1	139.2	21.3	20.9	21.0	20.9	21.1	20.9	20.7	20.6
2	231.1	31.4	20.9	21.0	20.9	21.1	20.8	20.7	20.6
3	330.3	51.9	21.6	21.2	20.9	21.1	20.9	20.7	20.5
4	442.1	75.1	26.0	22.1	21.2	21.1	20.8	20.8	20.5
5	546.0	84.8	45.2	24.9	22.3	21.0	20.9	20.7	20.6
6	570.1	88.4	62.4	30.9	25.8	21.1	21.3	20.6	20.5
7	602.7	93.3	73.9	40.6	32.6	21.1	22.3	20.7	20.5
8	636.2	98.1	83.2	53.0	43.5	21.3	24.1	20.8	20.5
9	667.1	104.1	88.6	64.7	57.7	22.0	28.8	21.0	20.5
10	699.0	108.4	91.8	76.1	69.8	23.4	30.9	21.5	20.5
11	710.7	112.4	93.4	81.4	77.8	27.5	49.0	22.6	20.5
12	721.1	116.6	94.5	85.2	83.0	34.1	55.7	24.9	20.5
13	732.7	122.8	95.6	87.3	85.8	41.7	61.0	27.8	20.5
14	743.2	137.7	96.8	88.2	86.7	47.7	64.8	30.1	20.5
15	754.4	167.7	99.4	89.0	86.6	52.5	66.7	32.4	20.5
16	761.5	199.4	103.2	90.6	86.4	58.8	68.0	34.3	20.7
17	768.5	224.9	108.5	92.9	86.6	63.1	69.4	36.0	21.0
18	775.2	243.8	113.6	95.4	88.7	66.4	71.8	37.6	21.4
19	782.8	261.9	115.6	96.6	90.0	69.4	73.8	39.8	21.9
20	789.4	278.4	118.4	97.0	90.7	71.6	75.3	41.2	22.5
21	794.8	294.3	120.1	97.7	91.4	73.4	76.3	43.3	23.2
22	799.8	310.9	121.4	98.8	92.1	75.1	77.1	45.0	24.1
23	805.5	326.8	123.4	100.0	92.7	78.7	77.9	46.1	25.0
24	811.0	341.8	126.3	101.3	93.4	78.3	78.6	47.6	26.0
25	816.3	356.1	130.0	102.8	94.0	79.6	79.4	49.0	27.2
26	820.8	370.6	134.5	104.3	94.7	80.9	80.1	50.7	28.5
27	825.3	385.1	139.4	105.7	95.4	82.1	80.8	52.0	29.8
28	829.5	399.1	144.0	106.9	96.2	83.3	81.4	53.2	31.2
29	833.9	413.3	148.5	108.0	97.1	84.4	82.0	54.4	32.7
30	837.6	426.9	153.4	108.9	98.1	85.2	82.5	55.7	34.2
31	840.6	440.0	158.0	109.6	99.2	85.0	82.9	57.0	35.7
32	846.3	452.7	163.1	110.3	100.4	86.4	83.2	58.2	37.4
33	850.0	465.4	168.4	110.9	101.8	86.8	83.5	59.3	39.0
34	852.7	478.4	174.9	111.8	103.3	86.9	83.8	60.3	40.6
35	856.6	490.5	122.4	112.8	93.4	87.0	85.3	58.9	42.2
36	860.4	501.7	191.7	113.9	106.8	87.1	84.3	62.2	43.7
37	863.8	512.6	202.1	115.7	108.8	87.1	84.5	63.1	45.1
38	866.6	523.5	212.2	118.9	111.2	86.9	84.6	63.7	46.3
39	869.4	534.0	223.3	125.2	113.8	95.7	84.8	64.3	47.5
40	872.4	544.5	236.4	134.9	116.8	86.2	85.0	64.7	48.6
41	876.1	555.2	251.3	148.8	120.3	85.6	85.1	65.0	49.4
42	878.9	566.2	266.4	168.4	124.3	84.5	85.2	65.2	50.2
43	881.8	577.2	282.5	193.2	129.0	83.1	85.5	65.3	50.9
44	884.0	588.8	297.0	218.1	134.3	82.2	86.0	65.4	51.4
45	886.6	598.3	310.2	244.4	140.4	81.7	85.9	65.6	51.9
46	890.5	608.7	322.7	277.1	147.3	82.6	88.3	66.0	52.2
47	891.7	618.8	337.1	311.0	154.5	84.8	89.7	66.4	52.2
48	894.7	628.7	350.1	340.9	161.6	84.8	90.9	66.8	52.4
49	898.2	638.8	362.9	368.3	169.1	84.6	92.1	67.3	52.7
50	900.5	648.8	375.7	390.9	176.8	84.9	93.3	67.7	52.9
51	901.8	658.9	388.5	410.2	184.6	85.4	94.6	68.1	53.0
52	903.4	668.3	400.6	426.8	192.6	86.0	95.2	68.5	53.2
53	906.8	677.6	413.6	442.1	200.9	86.7	98.1	68.9	53.6
54	907.3	686.9	426.6	456.3	209.2	87.7	100.2	69.3	53.6
55	911.1	696.1	438.0	469.6	217.7	89.0	102.6	69.8	53.8
56	913.1	704.6	449.2	492.0	226.4	90.4	105.3	70.3	54.0
57	916.0	712.4	460.7	493.5	235.2	92.2	108.2	70.9	54.2

Table 14. Average Temperatures Measured in Assembly S-21, Steel Stud, 2x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Legend: BL - Base Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/FL (Exp.)	BL/Sid. (Exp.)	BL/Cav. (Exp.)	MID. Sid.	BL/Cav. (UnExp.)	BL/Sid. (UnExp.)	BL/FL (UnExp.)	UnExp.
		AV(10,11,20,21,28,29)	AV(12,13,30,31)	AV(22,23)	AV(14,15,32,33)	AV(24,25)	AV(16,17,34,35)	AV(18,19,26,27,36,37)	AV(12,34,35)
58	915.4	720.1	471.9	504.3	244.1	94.3	111.3	71.5	54.3
59	919.7	727.0	482.3	514.4	253.2	96.9	114.5	72.2	54.8
60	921.2	734.2	492.7	523.8	262.3	100.2	118.0	72.8	55.0
61	923.7	740.4	502.5	532.4	271.6	104.2	121.6	73.6	55.1
62	925.0	746.4	511.9	540.5	281.0	108.1	125.3	74.4	55.5
63	926.0	762.8	521.2	548.2	290.5	115.1	129.2	75.2	55.7
64	930.4	759.2	530.3	555.7	300.0	122.4	133.3	76.0	55.9
65	931.3	766.1	539.5	562.9	309.6	130.7	137.6	76.7	56.1
66	934.4	772.2	548.3	569.8	319.2	140.1	142.0	77.4	56.2
67	936.4	779.6	558.0	576.6	328.9	150.4	146.5	78.1	56.5
68	938.5	784.6	566.0	583.2	338.6	161.2	151.2	78.8	56.7
69	939.6	791.2	574.5	599.5	348.2	172.5	156.2	79.4	56.5
70	940.4	795.9	582.1	595.7	357.6	183.9	161.2	80.2	56.6
71	942.5	802.3	591.4	601.8	366.9	195.3	166.6	80.9	56.8
72	943.4	806.6	598.0	608.1	376.0	206.8	172.1	81.6	57.2
73	944.5	810.6	605.1	614.0	384.9	218.3	177.8	82.4	57.7
74	946.5	814.9	612.1	619.7	393.7	228.9	183.5	83.1	57.7
75	947.7	818.2	618.6	625.4	402.1	241.2	188.9	83.9	58.0
76	950.1	821.9	625.7	631.0	410.6	251.4	194.4	84.7	58.5
77	951.6	826.2	632.5	636.4	418.6	260.7	199.8	85.6	58.8
78	954.1	829.5	638.4	641.7	426.3	269.2	205.1	86.5	59.2
79	954.8	832.8	644.6	647.1	433.5	277.3	210.2	87.3	59.4
80	957.8	835.7	650.6	652.7	440.3	284.9	215.1	88.1	60.0
81	959.7	838.7	656.7	668.7	446.9	292.1	219.9	88.9	60.0
82	960.5	840.8	662.2	684.8	453.1	299.0	224.5	89.7	60.7
83	962.3	843.8	668.3	671.2	459.2	305.9	229.0	90.4	60.8
84	964.2	846.4	673.7	678.0	465.4	312.7	233.5	91.3	61.4
85	965.6	847.6	678.4	684.8	471.4	319.8	238.2	92.1	61.8
86	967.2	848.9	683.3	691.7	477.3	326.4	242.9	93.0	62.1
87	968.0	851.5	688.7	698.6	483.5	333.1	247.7	93.8	62.3
88	969.0	853.6	693.9	705.7	490.0	339.8	252.6	94.7	62.8
89	971.8	855.5	699.2	712.9	497.0	346.6	257.9	95.7	63.3
90	972.1	860.9	705.0	720.3	503.0	353.4	263.4	96.6	63.4
91	973.6	875.3	710.5	728.0	511.0	360.2	269.1	97.6	63.7
92	973.8	877.0	716.2	735.4	518.1	367.2	274.9	98.7	64.0
93	976.6	877.6	721.5	742.8	525.2	374.2	281.0	100.0	64.6
94	977.6	879.5	726.5	749.7	532.2	381.2	287.0	101.3	64.9
95	977.5	880.3	731.8	756.1	539.2	388.1	293.2	102.6	65.4
96	979.8	881.6	737.1	762.4	546.8	395.4	299.5	104.1	65.9
97	981.5	882.1	742.2	768.2	554.6	403.0	306.0	105.6	66.5
98	982.0	882.4	747.2	773.5	562.6	411.1	312.9	107.2	67.1
99	985.2	881.5	761.9	778.4	570.7	419.9	320.3	109.0	67.8
100	985.2	880.8	766.7	782.9	579.3	429.4	327.7	110.8	68.4
101	986.9	880.9	761.3	787.3	588.4	439.2	335.5	113.0	68.8
102	988.2	880.2	766.4	791.2	587.9	449.5	343.4	115.5	69.3
103	989.7	880.0	771.4	795.0	598.3	460.4	352.9	118.2	70.1
104	989.6	877.3	775.4	798.6	618.2	470.8	363.3	121.1	70.5
105	991.7	876.4	778.6	800.9	627.4	481.5	373.8	124.2	70.7
106	992.2	874.5	781.7	802.9	636.7	492.3	385.4	127.5	70.7
107	993.6	872.8	784.2	804.8	645.3	502.1	397.7	130.9	71.2
108	992.1	870.4	786.3	805.4	653.9	511.7	410.5	134.3	71.9
109	996.0	869.3	788.0	806.3	661.5	521.6	423.1	137.9	71.6
110	996.7	867.7	788.9	807.7	668.7	530.3	436.0	141.6	72.4
111	997.3	865.8	789.1	807.6	674.6	539.1	448.5	145.1	72.4
112	999.2	864.3	788.9	807.0	680.5	548.2	461.9	148.6	72.6
113	999.6	863.0	789.1	806.7	686.0	558.0	472.9	151.9	73.0
114	999.6	861.6	788.3	805.9	690.7	568.0	485.0	155.2	73.3
115	1000.7	860.2	787.5	804.4	695.1	577.2	497.2	158.8	73.6

Table 14. Average Temperatures Measured in Assembly S-21, Steel Stud, 2x2 Gypsum Layers, Cellulosic Fibre Insulation (Cont.)

Legend: BL - Base Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/FL (Exp.) Av(10,11,20,21,26,29)	BL/Std. (Exp.) Av(12,13,30,31)	BL/Cav. (Exp.) Av(22,23)	Mid. Stud. Av(14,15,32,33)	BL/Cav. (UnExp.) Av(24,25)	BL/Std. (UnExp.) Av(16,17,34,35)	BL/FL (UnExp.) Av(18,19,26,27,36,37)	UnExp. Av(1,2,3,4,5)
116	1001.3	858.6	786.8	802.9	699.2	596.4	508.6	162.5	73.2
117	1002.1	857.7	786.1	801.3	703.0	597.1	519.8	166.1	73.5
118	1003.1	856.4	784.9	800.1	706.5	606.2	530.3	169.8	74.3
119	1004.4	855.5	783.9	798.7	709.4	615.2	540.8	173.4	74.4
120	1005.6	854.2	782.6	796.9	712.1	623.6	550.3	176.9	74.7
121	1005.7	853.1	781.2	795.3	714.6	631.6	559.9	180.6	75.3
122	1006.8	852.2	779.8	793.5	716.5	638.8	569.0	184.3	76.4
123	1007.0	851.6	778.8	792.0	718.6	645.7	577.8	188.2	76.6
124	1007.4	850.8	777.3	790.4	720.4	652.9	586.6	192.9	77.0
125	1008.5	850.3	776.0	788.7	722.1	659.5	595.6	196.7	77.2
126	1008.6	849.4	775.2	787.2	723.8	665.7	604.0	201.1	77.6
127	1008.6	848.3	774.6	786.0	725.6	671.3	612.1	205.2	78.2
128	1010.9	848.4	774.4	785.0	727.4	676.6	620.1	208.9	78.6
129	1010.8	847.8	774.0	784.0	728.8	681.1	627.3	212.5	79.5
130	1010.9	847.5	773.7	783.1	730.4	685.7	635.1	216.2	80.4
131	1012.6	847.5	773.1	782.6	731.7	690.2	642.5	219.8	81.7
132	1014.0	847.8	773.2	782.1	733.1	693.8	649.8	223.8	83.6
133	1014.0	848.2	773.5	782.3	734.9	699.1	657.6	227.4	84.9
134	1015.0	850.6	775.9	783.4	738.0	705.9	667.7	231.5	85.2
135	1014.8	851.4	777.2	784.9	740.4	710.4	675.1	235.4	86.2
136	1015.3	851.2	777.0	785.2	741.5	713.2	681.0	239.3	86.9
137	1017.7	854.5	778.9	788.7	743.6	719.8	689.2	243.2	91.1
138	1018.6	870.9	793.5	804.8	754.7	741.1	710.7	247.1	92.3
139	1019.7	882.6	804.7	815.7	763.8	759.3	733.7	251.1	93.3
140	1019.7	914.2	839.6	845.6	775.7	806.5	776.0	256.7	94.3
141	1019.6	923.6	857.2	855.0	791.0	837.2	803.6	261.7	95.8
142	1020.3	925.4	861.9	857.3	798.8	852.7	813.0	267.2	96.6
143	1019.7	934.3	865.9	857.9	806.5	855.8	817.7	273.6	97.7
144	1023.7	933.4	868.2	858.6	811.0	856.7	821.3	280.9	99.2
145	1023.9	937.3	871.9	861.0	815.8	858.6	826.1	289.0	100.1
146	1022.5	936.2	873.8	862.1	819.1	859.3	828.9	295.5	101.1
147	1022.3	933.5	879.0	864.0	820.9	863.8	830.7	301.5	102.4
148	1023.7	932.7	883.0	866.8	823.9	866.3	836.3	308.3	103.8
149	1026.5	939.8	887.6	868.9	827.3	869.4	838.5	316.0	105.0
150	1025.3	935.8	890.3	870.9	830.5	872.1	843.2	321.6	106.4
151	1027.5	939.1	893.8	873.8	834.7	875.0	850.1	329.0	108.1
152	1027.1	937.1	894.8	875.6	837.9	876.1	854.0	336.4	110.3
153	1027.2	935.9	898.7	878.6	842.0	878.7	858.0	344.9	113.2
154	1027.6	938.0	903.3	881.5	846.3	882.1	861.5	354.3	116.5
155	1020.5	930.3	907.1	884.8	850.0	885.6	868.9	364.7	120.4
156	1030.0	929.8	909.5	887.2	852.5	887.7	871.7	376.0	124.7
157	1024.1	924.5	914.9	888.8	855.3	888.3	876.1	385.6	129.8
158	1034.4	912.7	921.7	894.1	859.9	891.9	883.0	395.5	135.1
159	1034.7	944.6	927.9	900.2	864.7	895.8	886.8	406.4	139.8
160	1032.7	943.4	929.9	903.9	867.9	898.0	887.0	417.5	144.1
161	1033.8	945.5	931.9	908.8	871.1	900.9	888.7	428.1	148.9
162	1034.7	946.6	933.4	913.6	874.0	907.2	890.1	440.4	156.3
163	1035.2	948.9	939.7	917.7	878.5	913.4	910.5	452.7	165.9
164	1035.3	947.4	937.7	919.4	880.4	913.5	911.8	464.8	177.5
165	1035.3	950.3	940.9	924.4	885.9	918.4	918.2	478.4	192.2

Table 15. Temperatures Measured in Assembly S-22, Steel Stud, 1x1 Gypsum Board Layers, Glass Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	42.3	25.9	27.5	25.9	26.3	26.2	25.4	25.4	25.3	25.5	32.6	31.7	35.8	34.5	29.8	29.3	31.9	31.1	35.1	33.6	29.4
1	113.1	25.9	27.4	25.9	26.3	26.2	25.5	25.4	25.3	25.6	32.6	31.7	35.9	34.6	29.8	29.3	31.8	31.1	35.5	34.0	29.3
2	225.0	25.9	27.4	25.9	26.3	26.2	25.5	25.4	25.3	25.6	32.7	32.1	39.8	37.6	29.7	29.4	32.0	31.2	44.7	38.8	29.3
3	329.0	26.0	27.5	25.9	26.4	26.2	25.5	25.5	25.8	35.7	35.8	66.1	52.7	30.0	30.9	34.3	32.7	64.2	53.4	29.6	
4	433.4	26.0	27.6	25.9	26.5	26.2	25.8	25.5	25.5	25.9	61.1	52.0	99.3	83.8	35.1	38.1	43.3	42.8	84.1	78.1	31.4
5	527.1	26.2	28.0	26.1	26.8	25.9	25.8	25.8	26.0	26.2	89.9	90.4	99.4	99.6	57.6	70.4	56.8	74.1	92.3	94.4	36.4
6	568.0	27.1	29.0	26.5	28.8	28.0	26.4	26.3	26.1	26.9	94.6	96.6	99.3	99.6	73.6	84.6	69.6	91.2	94.5	95.8	44.2
7	600.4	29.6	31.0	28.0	33.8	32.2	27.7	28.3	27.9	28.5	95.3	97.3	99.3	100.3	79.5	88.1	77.4	92.4	95.0	98.3	52.2
8	632.3	33.2	34.1	30.9	41.1	38.1	29.7	30.7	29.5	30.7	95.5	96.9	100.3	101.1	81.7	88.6	81.6	92.9	95.1	97.3	58.6
9	663.1	37.3	38.2	34.7	48.3	43.8	31.5	33.4	31.7	33.2	95.5	98.7	104.0	103.8	83.4	89.1	84.5	93.4	95.3	99.1	63.7
10	698.7	41.5	42.8	38.8	54.4	48.7	33.7	36.8	33.6	35.9	95.5	96.5	109.9	108.1	84.4	89.1	86.5	93.5	102.9	103.5	67.8
11	711.8	45.7	47.4	43.2	59.2	52.8	34.8	39.2	34.9	37.8	95.7	96.4	116.4	114.3	85.0	89.2	88.0	93.7	111.0	110.7	71.0
12	721.1	49.7	51.7	47.4	62.8	56.0	36.8	41.5	36.4	39.1	95.9	96.2	123.8	119.3	85.3	89.2	89.1	93.5	118.0	116.6	73.4
13	732.2	53.2	55.3	51.4	65.4	58.3	38.5	43.9	38.2	40.2	97.6	96.0	135.2	124.1	85.2	89.1	89.7	92.7	128.4	122.1	74.8
14	743.1	56.3	58.4	54.9	67.2	60.1	39.6	45.7	39.5	41.4	100.9	95.8	158.8	133.0	84.8	89.1	90.4	91.7	153.3	131.8	75.2
15	754.2	58.5	60.9	57.6	68.2	61.2	40.0	46.0	38.2	42.5	107.2	96.5	189.3	149.9	83.8	88.6	95.4	89.5	207.7	157.4	75.1
16	762.6	59.3	62.8	59.2	68.7	61.6	41.7	46.6	40.8	43.7	124.3	101.4	231.3	182.2	82.1	83.8	113.8	92.8	262.5	206.9	75.9
17	768.6	59.6	63.9	60.0	68.1	61.4	40.4	46.6	39.9	44.0	141.1	110.6	277.4	226.4	82.7	81.4	139.0	117.9	310.5	261.8	77.5
18	775.5	59.7	65.0	60.4	67.0	61.1	40.5	46.5	40.5	42.3	168.7	130.7	326.4	271.4	86.6	81.6	164.1	145.3	351.6	310.3	80.7
19	781.4	59.7	66.1	60.5	66.5	60.8	40.3	45.6	41.1	43.3	192.3	159.7	369.1	318.4	93.7	86.5	189.6	173.1	388.3	356.8	85.0
20	789.2	60.1	67.2	60.5	66.2	60.6	40.6	46.4	40.1	42.9	210.7	187.8	402.2	372.3	103.4	92.0	213.6	203.4	416.7	403.6	89.9
21	794.8	60.8	68.4	60.6	65.9	60.5	39.8	45.6	39.3	42.5	229.2	213.6	427.5	419.7	113.9	100.3	234.8	233.6	442.1	436.8	96.8
22	800.4	62.2	69.8	61.0	66.0	60.5	40.0	45.1	37.6	41.8	247.1	239.2	447.7	442.8	124.5	111.9	256.9	262.9	460.5	466.8	111.1
23	805.3	64.1	71.6	61.9	66.5	61.1	42.0	47.0	39.7	43.5	263.7	268.1	463.5	468.9	134.5	127.0	306.6	290.9	490.4	494.5	128.2
24	810.8	66.5	74.4	63.2	67.7	62.0	43.8	48.4	40.7	44.9	279.6	295.1	478.6	492.2	144.2	142.7	349.4	317.5	518.5	519.5	151.6
25	816.2	69.5	78.1	64.7	69.1	63.1	45.8	49.4	42.9	48.2	293.7	318.6	492.9	512.6	153.3	157.5	375.4	342.9	541.3	542.8	173.0
26	820.8	72.4	81.5	66.4	70.6	64.5	48.2	51.2	42.9	47.5	307.9	339.5	508.0	530.8	162.6	169.9	404.1	367.0	562.3	564.4	191.7
27	824.9	74.4	84.3	68.1	72.1	66.0	51.5	52.0	44.6	48.4	321.9	358.0	522.9	549.4	174.0	181.4	427.1	389.5	582.8	585.0	207.4
28	829.0	76.6	87.4	69.8	73.2	67.5	56.0	54.3	47.4	50.7	336.6	374.6	537.9	567.1	191.8	193.8	446.2	410.0	599.0	604.3	221.7
29	833.7	80.2	91.5	71.4	74.0	68.9	56.6	55.2	49.9	51.3	350.5	389.3	552.2	582.6	205.6	206.4	461.1	427.7	612.5	620.5	234.7
30	837.8	85.1	96.3	72.7	75.5	71.6	57.6	55.0	47.7	50.4	362.4	402.2	567.6	597.9	218.8	218.9	473.2	442.6	624.1	634.8	246.4
31	842.1	90.1	101.3	73.8	79.6	75.0	57.3	56.5	49.8	50.8	372.9	414.2	582.2	609.5	228.9	232.0	483.6	455.7	638.1	648.4	256.9
32	845.5	94.7	105.7	74.9	84.9	78.6	62.9	57.7	52.2	53.4	383.7	425.9	596.7	626.5	238.8	247.2	493.6	467.7	647.8	661.3	266.8
33	849.5	98.9	109.2	75.9	89.5	82.2	66.5	59.2	54.9	58.4	395.4	439.4	608.4	646.0	244.7	266.3	503.6	479.1	656.1	671.7	277.2
34	853.1	102.6	111.8	76.7	93.3	85.6	66.5	58.8	54.3	56.7	405.7	454.6	616.6	666.4	242.6	290.0	512.0	489.6	663.6	680.9	285.6
35	858.7	105.7	113.7	77.7	96.2	88.7	65.0	59.9	55.8	58.6	413.9	469.8	826.2	887.3	251.2	314.1	519.4	498.8	670.2	689.3	291.1
36	860.3	108.6	115.0	79.2	98.8	91.5	70.5	61.9	58.7	61.6	423.1	483.4	636.5	699.0	260.2	317.6	526.1	507.3	676.3	693.7	294.2
37	863.6	110.8	116.2	81.7	100.9	94.4	73.9	62.2	56.7	62.6	433.8	494.5	647.7	716.9	266.9	307.0	532.8	515.2	681.8	687.9	300.0
38	867.2	112.6	117.4	85.0	102.6	97.6	71.5	62.7	62.2	65.5	444.0	507.3	659.6	736.2	275.9	299.8	540.6	523.0	687.2	701.9	306.0
39	869.3	114.1	119.4	88.8	104.0	100.4	73.6	63.9	62.6	65.2	454.9	523.0	671.8	733.2	287.3	304.4	548.9	531.2	694.0	706.1	312.2
40	872.3	115.5	121.7	92.5	105.3	102.8	76.3	66.3	62.2	67.1	466.1	539.3	685.4	747.0	299.9	309.0	555.6	541.1	700.8	710.5	317.2
41	875.8	117.3	123.8	95.9	106.3	105.0	78.9	67.5	61.7	66.4	479.3	554.5	694.4	747.3	311.5	321.0	565.8	559.8	709.4	719.9	322.8
42	878.7	119.7	126.1	99.1	107.2	106.8	80.8	70.3	63.5	67.7	493.0	565.6	699.7	743.4	325.3	334.4	576.4	559.3	714.8	727.5	329.0
43	881.4	123.6	130.0	102.1	108.0	108.4	82.5	70.4	66.0	69.7	508.5	577.2	704.9	749.7	341.0	347.9	587.6	643.5	719.5	732.5	335.6
44	883.6	135.4	135.4	104.9	108.8	109.8	91.1	72.4	64.3	70.7	526.3	587.5	706.8	748.6	358.5	362.4	599.6	669.6	725.4	733.1	343.7
45	887.2	173.5	142.8	107.3	109.4	110.9	102.7	74.9	66.2	71.2	***	***	***	***	***	***	***	***	***	***	353.9
46	889.7	235.5	155.7	109.0	110.1	112.0	122.0	75.8	67.4	72.3	563.8	608.9	715.3	753.6	397.8	394.9	622.5	681.2	722.8	724.6	366.2
47	892.4	304.2	175.2	110.1	110.8	113.0	138.6	77.1	68.2	74.4	583.2	619.1	718.7	756.0	418.8	413.0	629.0	675.0	717.3	721.2	378.9
48	894.8	384.3	198.7	110.9	111.6	114.7	139.6	74.8	66.9	69.0	599.2	632.9	721.6	759.8	437.6	434.1	630.9	669.0	712.7	716.2	390.1
49	897.6	460.6	222.8	111.6	112.4	117.4	150.8	80.4	69.5	72.4	612.6	645.6	724.3	759.0	453.4	458.0	631.8	665.3	698.7	887.5	398.2
50																					

Table 15. Temperatures Measured in Assembly S-22, Steel Stud, 1x1 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Table 16. Average Temperatures Measured in Assembly S-22, Steel Stud, 1x1 Gypsum Board Layers, Glass Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/SStd. (Exp.) Av(12,13,16,19)	BL/Cav. (Exp.) Av(22,23)	Mld. SStd. Av(10,11,16,17)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/Cav. (UnExp.) Av(24,25)	UnExp. Av(1,2,3,4,5)
0	42.3	34.8	38.3	31.8	29.2	27.4	26.4
1	113.1	35.0	38.5	31.8	29.2	27.4	26.4
2	225.0	40.2	45.5	32.0	29.3	27.3	26.4
3	329.0	59.1	67.4	34.7	29.8	27.6	26.4
4	433.4	86.3	85.8	49.8	33.5	28.9	26.4
5	527.1	96.4	93.1	77.8	49.3	36.5	26.6
6	568.0	97.3	97.4	88.0	61.9	49.4	27.9
7	600.4	97.7	103.9	90.6	69.0	57.7	30.9
8	632.3	98.5	110.3	91.7	72.9	61.6	35.5
9	663.1	100.6	114.7	92.5	75.9	64.3	40.4
10	698.7	106.1	117.4	93.0	78.1	66.9	45.3
11	711.9	113.1	120.0	93.4	79.7	68.9	49.6
12	721.1	119.4	123.9	93.7	80.9	70.3	53.5
13	732.2	127.5	133.3	94.0	81.5	70.9	56.7
14	743.1	144.2	168.1	94.7	81.5	70.4	59.4
15	754.2	176.1	233.9	97.2	80.6	68.6	61.3
16	762.6	220.7	318.9	108.1	78.9	67.0	62.3
17	768.6	269.0	392.8	127.2	79.2	66.9	62.6
18	775.5	314.9	450.0	152.2	81.4	66.7	62.7
19	781.4	358.1	492.5	178.7	86.1	71.6	62.7
20	789.2	398.7	529.0	203.9	92.1	81.1	62.9
21	794.8	430.0	573.8	227.8	100.9	120.2	63.2
22	800.4	454.4	631.5	251.5	112.9	148.4	63.9
23	805.3	479.1	682.8	282.3	126.2	179.0	65.0
24	810.8	502.2	702.8	310.4	141.1	217.2	66.8
25	816.2	522.4	710.2	332.6	155.5	258.6	68.9
26	820.8	541.4	717.2	354.6	168.7	298.7	71.1
27	824.9	560.0	714.7	374.1	181.6	334.5	73.0
28	829.0	577.1	714.3	391.9	196.0	362.5	74.9
29	833.7	591.9	715.9	407.1	209.0	378.8	77.2
30	837.8	605.9	717.4	420.1	221.3	396.5	80.2
31	842.1	619.6	706.2	431.6	232.2	414.9	84.0
32	845.5	633.1	703.2	442.7	243.0	431.2	87.7
33	849.5	645.6	701.8	454.4	253.8	442.8	91.1
34	853.1	656.9	702.5	465.5	263.6	451.0	94.0
35	856.7	668.3	703.8	475.5	275.3	464.5	96.4
36	860.3	676.4	703.7	485.0	279.6	479.4	98.6
37	863.6	686.1	704.5	494.1	281.5	494.8	100.8
38	867.2	696.2	704.8	503.7	285.0	507.5	103.0
39	869.3	701.3	708.2	514.7	292.1	519.5	105.3
40	872.3	710.9	710.7	525.5	299.2	537.8	107.6
41	875.6	717.8	709.9	539.9	309.1	549.0	109.6
42	878.7	721.4	709.2	558.6	321.5	559.1	111.8
43	881.4	726.7	710.4	579.2	337.1	567.5	114.4
44	883.6	728.5	709.4	595.7	354.4	573.1	118.9
45	887.2	***	709.2	***	366.9	580.9	128.8
46	889.7	729.1	707.6	619.1	389.5	578.5	144.4
47	892.4	728.3	706.3	626.6	405.6	580.9	162.7
48	894.8	727.3	705.7	633.0	421.0	596.1	184.0
49	897.6	719.9	703.9	638.8	435.2	598.5	205.0
50	899.8	716.6	703.3	644.0	448.0	605.6	222.0

Table 17. Temperatures Measured in Assembly S-23, Steel Studs, 1x2 Gypsum Board Layers, Glass Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	35.1	23.7	24.2	24.0	23.8	24.2	23.4	23.4	23.9	23.7	27.5	28.0	31.6	30.2	27.1	26.3	29.2	28.2	31.2	29.7	27.2
1	113.8	23.7	24.2	24.0	23.8	24.2	23.5	23.5	23.4	23.7	27.5	28.0	31.5	30.1	27.1	26.3	29.1	28.1	31.4	30.0	27.2
2	224.7	23.8	24.3	24.1	23.8	24.3	23.9	23.6	23.7	24.1	27.5	28.0	35.9	32.3	27.1	26.3	29.4	28.4	40.4	35.3	27.2
3	328.6	23.8	24.3	24.1	23.9	24.4	23.8	23.5	23.6	24.2	31.8	28.9	56.3	41.8	27.5	26.3	34.1	30.1	63.7	46.9	27.8
4	435.6	23.8	24.4	24.1	23.9	24.5	24.0	23.7	23.6	24.4	71.8	34.1	97.8	71.5	45.6	26.8	54.0	36.1	88.3	69.8	31.6
5	536.0	23.9	24.4	24.1	24.0	24.6	24.0	23.8	23.8	24.2	92.8	59.4	98.9	98.2	83.4	29.0	77.9	47.4	94.7	87.1	47.0
6	570.0	23.9	24.4	24.1	24.0	24.7	24.2	23.8	23.9	24.6	95.5	90.7	98.6	98.3	89.2	44.1	86.3	61.1	95.2	95.8	63.4
7	599.6	24.0	24.5	24.2	24.1	25.1	24.2	23.8	23.6	24.7	94.9	95.4	99.4	98.0	90.1	68.5	88.9	71.9	95.7	98.1	71.7
8	632.5	24.1	24.8	24.2	24.1	26.0	24.4	23.9	24.1	25.0	94.3	95.4	100.9	98.5	90.4	76.7	90.3	77.7	99.6	102.1	76.5
9	664.7	24.3	25.4	24.3	24.3	27.7	24.7	24.0	23.9	25.6	94.3	95.1	104.7	99.7	90.8	79.5	91.2	82.2	107.4	108.4	79.7
10	698.4	24.7	26.4	24.6	24.6	30.1	25.0	24.5	24.4	26.8	94.1	94.8	110.0	104.2	91.0	80.4	91.8	85.6	114.3	114.4	82.0
11	710.3	25.3	27.8	25.0	25.2	33.0	25.6	24.8	24.5	28.2	93.9	94.9	115.7	111.0	91.1	81.6	92.3	88.2	119.0	119.6	83.8
12	721.3	26.0	29.5	25.6	26.0	36.1	25.9	25.1	24.9	29.1	93.5	95.0	120.5	117.2	90.8	83.3	92.2	90.2	123.6	124.2	84.5
13	732.5	27.0	31.6	26.5	27.0	39.1	26.4	25.6	25.5	31.0	92.9	94.9	125.4	121.4	90.1	84.8	92.3	91.3	133.8	129.1	84.5
14	743.2	28.1	33.9	27.5	28.5	42.1	27.2	26.3	26.0	32.6	93.9	94.7	132.3	125.7	89.4	87.1	92.4	92.3	156.0	138.7	82.6
15	754.3	29.5	36.3	28.7	30.1	44.7	27.8	26.7	26.7	34.5	97.9	94.0	150.9	132.8	86.8	85.9	103.5	96.7	205.5	182.1	80.1
16	761.7	31.0	38.5	30.1	32.0	47.0	28.1	26.9	26.8	35.2	131.2	92.8	207.1	148.6	88.7	81.9	141.2	108.3	266.2	212.3	81.9
17	768.6	32.5	40.5	31.5	33.9	48.9	28.2	27.5	27.7	37.0	122.9	94.8	262.0	183.7	88.3	81.2	168.8	130.8	316.1	266.8	85.2
18	775.3	34.0	42.2	33.0	35.9	50.5	29.4	28.5	28.6	38.4	138.9	107.1	312.2	233.8	92.9	79.5	201.5	157.8	364.2	310.6	91.0
19	782.3	35.3	43.7	34.4	37.7	51.7	29.2	28.1	28.6	38.4	152.6	132.3	367.3	283.2	100.1	79.0	233.6	186.1	406.4	351.6	99.1
20	789.4	36.5	44.8	35.8	39.3	52.6	29.3	28.7	28.5	38.6	161.0	162.1	421.2	331.6	108.1	80.4	265.3	214.7	442.0	386.6	109.9
21	794.4	37.6	45.9	37.1	40.8	53.4	30.1	29.3	29.1	38.9	174.6	192.0	450.9	374.0	116.9	83.0	295.7	242.6	473.2	414.5	118.8
22	800.1	38.7	46.8	38.3	42.2	54.1	31.0	29.8	28.9	39.3	186.4	221.2	477.4	409.1	125.3	89.5	323.6	268.7	499.6	441.4	129.8
23	805.3	39.7	47.7	39.6	43.3	54.8	30.7	30.0	28.9	39.5	201.0	247.9	500.6	437.8	138.0	96.5	349.6	294.3	522.9	466.4	146.9
24	811.1	40.8	48.8	40.8	44.4	55.4	31.8	30.3	29.1	39.7	215.6	273.2	520.0	463.4	149.6	105.7	374.1	318.5	546.4	489.0	162.1
25	815.9	42.1	49.9	42.1	45.5	58.1	31.9	31.6	30.2	40.4	230.4	296.9	537.7	488.8	160.2	113.4	397.3	341.8	569.5	509.5	177.2
26	820.7	43.5	51.2	43.5	46.6	56.9	32.5	32.2	30.1	41.1	244.9	318.9	557.0	512.9	170.7	123.7	419.6	364.8	591.7	529.2	191.1
27	824.8	45.1	52.6	45.1	47.8	57.7	33.7	33.3	31.3	42.1	259.3	341.4	583.7	540.6	181.7	137.3	441.2	388.2	609.4	550.4	203.8
28	829.3	46.8	54.1	46.7	49.2	58.7	33.5	33.8	30.9	42.6	272.4	367.6	610.5	578.6	193.6	151.9	461.7	412.3	624.9	589.9	215.0
29	833.6	48.6	55.5	48.4	50.7	59.7	34.1	34.5	31.5	42.4	289.7	404.6	635.4	630.8	205.1	168.7	481.6	437.6	638.8	587.7	225.9
30	837.5	50.2	56.9	50.1	52.3	60.8	34.0	34.4	32.2	43.4	296.0	445.5	652.1	693.8	216.7	184.7	501.4	463.2	651.6	605.9	235.6
31	841.9	51.8	58.4	51.8	54.0	62.0	35.8	35.6	31.7	43.0	310.9	484.5	662.5	749.8	229.9	195.3	622.5	490.2	663.2	625.0	244.2
32	845.5	53.2	60.0	53.5	55.6	63.0	35.7	35.7	31.4	43.6	331.5	506.9	682.0	773.3	244.8	206.8	546.4	522.8	674.3	646.6	251.7
33	849.5	54.2	61.4	55.3	57.0	64.0	34.8	35.1	32.3	44.2	359.9	519.4	724.1	774.6	263.3	218.4	579.7	564.8	686.3	671.0	259.7
34	853.2	55.2	62.7	57.1	58.4	65.1	37.7	37.4	32.3	45.7	389.4	533.1	770.8	764.0	287.7	233.7	606.1	588.9	695.8	685.4	267.8
35	857.0	56.3	64.0	58.8	59.9	66.5	37.3	36.4	32.4	45.4	406.9	546.7	762.0	758.7	313.3	250.8	622.6	607.4	704.1	695.8	276.3
36	860.1	57.8	65.2	60.5	61.5	68.3	38.9	39.0	34.3	48.7	421.7	559.0	759.7	756.1	332.3	288.7	635.4	625.0	712.6	703.3	279.8
37	863.3	59.0	68.4	62.1	62.9	70.3	39.7	39.5	34.5	49.9	439.7	572.8	758.3	754.7	350.4	288.6	649.6	639.9	719.8	711.2	284.3
38	866.5	60.3	67.6	63.7	64.4	72.0	39.0	39.6	34.0	50.7	460.9	586.2	760.6	754.3	369.0	308.2	661.3	651.5	725.3	718.8	287.4
39	869.5	61.4	68.6	65.1	65.6	73.3	38.4	38.9	33.6	49.2	489.3	597.4	757.3	752.7	392.6	330.2	668.2	660.0	729.6	721.8	284.9
40	872.9	62.4	69.6	66.4	66.8	74.0	41.4	41.1	35.5	53.4	520.1	611.0	753.3	750.9	422.8	359.5	671.8	664.8	731.6	724.7	302.9
41	876.1	63.4	70.5	67.6	67.8	74.5	40.8	40.0	34.4	52.6	549.5	525.2	750.3	751.8	450.0	387.0	671.4	667.9	732.7	727.0	309.4
42	878.7	64.2	71.2	68.6	68.7	75.0	42.4	42.6	36.3	56.0	574.0	637.2	747.6	754.5	477.6	405.1	671.3	667.7	733.6	728.1	316.7
43	881.6	64.9	72.0	69.6	69.6	75.5	43.1	41.7	35.8	57.6	592.7	646.8	744.2	762.5	504.3	419.4	670.1	665.1	734.6	729.1	321.3
44	883.9	65.4	72.6	70.3	70.4	75.9	44.2	41.7	36.5	58.5	606.7	653.3	741.4	761.6	524.1	444.1	667.5	661.5	735.5	729.5	328.3
45	886.8	66.0	73.2	71.1	71.2	76.4	43.6	41.6	36.5	57.7	615.5	656.8	739.2	761.8	537.2	465.6	662.4	659.2	733.8	729.2	335.3
46	889.7	66.4	73.6	71.7	72.1	76.8	43.5	41.7	36.7	57.9	620.3	655.3	737.7	760.5	546.4	481.8	661.9	658.8	728.7	730.4	342.4
47	892.1	66.9	74.0	72.3	72.8	77.3	44.8	41.8	37.1	57.7	620.5	653.0	736.8	760.0	551.9	494.3	659.9	660.1	723.6	733.7	350.6
48	895.1	67.2	74.3	72.8	73.5	78.0	45.1	41.9	36.9	56.4	620.5	652.5	736.1	760.4	556.0	504.4	657.4	664.5	718.3	737.3	356.8
49	898.2	67.7	74.7	73.4	74.2	78.9	45.7	42.3	37.8	57.9	622.1	652.8	735.6	761.8	560.2	512.9	656.6	666.6	713.6	736.4	365.5
50	902.2																				

Table 17. Temperatures Measured in Assembly S-23, Steel Studs, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	917.9	71.2	81.5	80.7	79.2	98.4	49.1	45.3	38.3	61.5	644.4	665.3	726.9	797.2	605.3	581.8	645.9	656.9	685.1	695.6	454.4
59	920.1	71.8	82.8	81.7	80.2	100.4	49.2	46.8	38.6	62.8	646.9	667.4	726.5	801.5	609.6	591.9	645.8	652.7	683.8	692.0	461.6
60	921.8	72.3	83.8	82.4	81.4	102.1	50.4	46.3	40.1	64.2	648.3	669.9	726.0	804.6	613.2	598.9	645.8	644.1	682.3	689.1	468.5
61	923.9	72.9	85.0	83.5	83.7	103.6	48.8	46.0	38.5	61.5	650.0	672.6	725.3	810.6	616.2	605.1	645.5	640.0	681.6	686.6	476.3
62	926.1	73.3	86.1	84.3	86.4	104.9	48.3	46.5	38.1	60.7	652.3	674.1	725.3	814.0	619.2	610.7	645.2	638.8	681.3	684.1	481.8
63	927.8	74.0	87.7	85.2	89.5	106.0	50.8	48.5	39.9	65.0	653.9	675.1	724.5	817.4	621.4	616.1	645.0	637.6	680.6	681.2	487.6
64	929.5	74.7	89.5	86.2	92.3	106.9	51.0	46.4	38.4	64.1	655.5	676.6	724.0	821.6	623.6	621.6	645.0	638.6	681.6	678.6	493.9
65	931.8	75.7	91.7	87.2	95.1	107.7	52.5	50.0	38.9	67.6	657.4	678.0	723.9	825.1	625.5	626.5	645.1	639.2	682.7	676.6	498.4
66	933.6	77.0	94.1	88.3	97.6	108.4	53.3	51.8	41.6	72.0	659.1	678.5	723.5	825.4	627.1	630.4	645.7	639.5	682.8	674.8	503.5
67	935.7	78.8	96.4	89.5	99.9	109.0	52.3	53.9	40.8	72.3	680.6	678.8	723.5	827.3	628.9	634.3	646.5	639.9	682.8	673.7	508.6
68	937.1	80.9	98.2	91.0	102.0	109.6	56.4	53.8	40.7	74.0	662.6	678.7	724.0	828.3	631.1	637.9	648.0	640.2	664.5	673.1	514.3
69	938.9	83.8	99.6	92.9	103.8	110.2	51.5	50.8	39.1	70.1	664.2	678.6	724.7	828.5	633.1	641.0	650.4	640.6	654.9	672.7	521.2
70	940.8	87.1	100.9	95.1	105.5	110.9	54.3	52.5	41.7	74.4	665.7	679.0	726.0	827.2	634.8	644.0	652.1	641.2	654.2	672.7	528.8
71	942.6	90.1	102.1	97.6	106.9	111.8	54.1	52.6	41.4	74.5	666.8	678.8	728.7	804.5	637.1	648.5	652.1	640.2	650.8	672.6	536.6
72	943.5	92.9	103.3	99.9	108.1	112.8	57.5	55.7	43.0	78.3	668.2	678.7	730.0	806.8	639.5	651.0	653.3	641.9	***	669.0	543.2
73	945.3	95.2	104.4	101.8	109.1	113.9	57.3	55.4	41.1	77.0	669.8	679.1	731.3	807.1	641.8	653.3	655.4	645.8	***	670.5	549.5
74	947.4	97.4	105.4	103.3	109.8	114.9	57.2	56.7	42.5	75.9	671.6	680.1	732.5	808.9	644.0	655.9	657.3	648.9	***	652.9	555.7
75	949.3	99.3	106.2	104.7	110.4	115.8	57.3	56.8	40.8	73.5	673.1	681.8	733.7	813.0	645.8	658.9	658.3	651.5	***	653.1	561.5
76	951.0	101.0	107.0	106.0	110.9	116.7	57.4	56.9	42.8	75.6	674.8	683.5	734.8	813.1	648.1	661.8	659.6	654.2	***	654.2	567.4
77	951.6	102.4	107.7	107.0	111.5	117.9	58.8	57.4	44.1	77.4	676.2	685.5	735.6	815.3	650.3	664.3	661.3	656.7	659.0	655.8	573.3
78	953.8	103.8	108.6	108.0	112.2	120.3	60.9	61.3	47.7	83.4	677.5	686.8	736.6	814.5	652.6	666.4	662.9	659.2	739.5	657.5	579.0
79	955.9	104.9	109.3	108.9	113.0	125.4	60.2	59.8	49.0	84.2	678.7	688.1	737.5	816.8	654.7	668.2	664.4	661.3	655.7	658.7	584.4
80	957.5	106.0	110.1	109.6	114.1	133.2	63.1	62.6	49.2	85.4	679.9	689.8	738.2	818.7	656.3	669.9	666.4	663.6	660.4	661.0	590.1
81	959.6	106.9	110.8	110.3	115.1	139.6	64.0	62.4	48.3	84.3	681.0	681.8	738.8	822.0	657.9	671.7	668.4	665.7	669.1	661.6	595.9
82	960.2	107.7	111.4	110.8	116.3	146.4	66.4	64.3	49.0	84.9	682.5	693.4	739.5	824.6	659.6	673.4	669.8	667.5	***	662.9	601.0
83	962.4	108.4	112.1	111.3	117.5	152.1	67.1	66.6	52.2	88.2	683.9	694.9	740.4	827.2	661.4	674.9	670.9	669.2	***	664.1	605.5
84	963.9	108.9	112.9	111.9	118.6	159.2	66.8	65.0	51.4	89.5	685.3	697.0	741.2	829.4	663.1	676.7	672.0	670.8	***	665.1	609.8
85	965.1	109.6	113.7	112.5	119.5	172.1	68.5	65.8	50.5	89.1	686.6	698.6	742.1	830.3	664.6	678.3	673.4	672.3	***	666.1	614.2
86	967.2	110.2	114.6	113.1	120.1	187.8	67.3	65.5	52.0	90.2	687.8	699.4	743.1	832.6	666.0	679.7	675.0	673.6	***	667.0	618.6
87	968.3	110.8	115.4	113.7	120.8	202.5	70.2	65.2	49.8	89.2	689.3	700.5	743.9	834.7	667.5	681.0	676.3	675.0	***	668.0	623.5
88	969.4	111.4	116.5	114.5	122.1	216.6	67.5	66.3	49.3	92.2	690.4	700.6	744.7	837.2	668.9	683.3	677.7	676.3	***	669.1	628.7
89	971.3	111.9	117.8	115.2	124.4	230.9	70.1	66.3	49.6	91.6	692.2	701.5	745.8	838.6	670.6	685.0	678.9	677.5	***	670.0	633.8
90	972.2	112.8	120.0	115.8	128.2	246.0	73.1	70.7	54.4	101.2	693.8	702.2	746.7	841.1	672.3	686.3	680.0	678.4	707.0	670.7	638.2
91	973.3	113.8	124.1	116.8	131.6	263.3	72.6	69.0	53.1	99.5	695.3	703.1	747.8	843.4	674.1	687.7	681.1	679.3	707.9	671.4	641.9
92	975.3	115.2	129.2	118.2	133.6	284.1	72.4	70.3	51.6	101.1	696.9	704.1	749.1	844.9	676.0	689.1	682.2	680.2	709.3	672.1	644.9
93	976.0	117.5	135.9	120.5	136.4	310.8	77.5	71.5	54.1	104.2	698.3	705.0	750.2	847.4	677.7	690.6	683.2	681.4	710.3	672.8	647.2

Table 17. Temperatures Measured in Assembly S-23, Steel Studs, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number															
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
0	35.1	26.4	34.1	32.5	25.7	24.9	***	***	24.8	24.2	***	***	23.9	23.8	***	***	24.4
1	113.8	26.4	34.3	32.5	25.7	24.9	***	***	24.8	24.3	***	***	23.9	23.9	***	***	24.4
2	224.7	26.4	44.3	37.2	25.7	24.9	***	***	24.8	24.3	***	***	23.9	23.9	***	***	24.4
3	328.6	26.6	69.1	51.4	26.3	25.0	***	***	24.8	24.3	***	***	23.9	23.9	***	***	24.4
4	435.5	27.6	88.6	78.6	33.4	25.5	***	***	24.9	24.4	***	***	24.0	23.9	***	***	24.4
5	536.0	30.5	94.6	92.6	55.9	33.1	***	***	26.7	24.4	***	***	24.2	24.0	***	***	24.7
6	570.0	36.7	98.6	95.9	70.1	60.5	***	***	33.3	24.6	***	***	25.0	24.4	***	***	25.6
7	599.6	45.3	107.6	102.3	73.0	72.5	***	***	43.5	25.1	***	***	27.2	26.9	***	***	27.9
8	632.5	52.4	114.5	110.6	74.4	76.8	***	***	52.4	26.8	***	***	30.6	31.8	***	***	31.3
9	664.7	59.1	118.9	116.7	75.9	80.1	***	***	58.4	29.4	***	***	34.3	37.7	***	***	35.1
10	698.4	65.3	121.3	120.3	76.9	82.7	***	***	62.2	32.7	***	***	37.7	43.8	***	***	39.1
11	710.3	71.0	123.4	122.5	77.6	84.5	***	***	64.9	36.2	***	***	40.8	49.6	***	***	43.0
12	721.3	75.0	127.3	124.8	77.9	85.5	***	***	66.9	39.8	***	***	43.6	54.9	***	***	46.7
13	732.5	77.3	140.0	130.0	77.4	85.1	***	***	68.2	43.5	***	***	46.2	59.1	***	***	50.2
14	743.2	76.5	178.4	144.1	75.8	84.5	***	***	68.9	47.1	***	***	48.3	61.9	***	***	53.0
15	754.3	75.3	262.9	193.4	71.9	80.4	***	***	69.3	50.3	***	***	49.9	63.4	***	***	55.0
16	761.7	75.7	352.0	281.6	72.2	77.0	***	***	69.0	52.9	***	***	50.6	63.5	***	***	56.1
17	768.6	78.2	415.7	365.5	74.2	79.0	***	***	68.8	54.4	***	***	51.1	63.0	***	***	56.8
18	775.3	80.4	463.9	424.2	88.9	77.1	***	***	68.5	55.4	***	***	51.6	63.0	***	***	57.4
19	782.3	83.9	500.7	466.2	118.1	80.4	***	***	68.3	56.0	***	***	52.2	62.8	***	***	58.1
20	789.4	90.6	532.0	501.6	140.4	94.8	***	***	68.5	56.3	***	***	53.0	62.6	***	***	59.1
21	794.4	97.3	558.3	532.3	160.1	112.4	***	***	68.8	56.7	***	***	54.5	62.8	***	***	60.5
22	800.1	106.1	580.1	558.5	177.1	128.4	***	***	69.4	57.3	***	***	56.5	63.7	***	***	62.3
23	805.3	117.4	598.0	580.3	191.9	142.3	***	***	70.3	58.1	***	***	59.2	65.3	***	***	64.4
24	811.1	132.2	612.8	598.2	205.4	154.5	***	***	71.3	59.1	***	***	62.1	67.3	***	***	66.7
25	815.9	145.3	625.0	613.0	218.7	165.5	***	***	72.6	60.4	***	***	64.9	69.6	***	***	69.0
26	820.7	157.3	635.1	625.1	230.8	175.8	***	***	74.0	61.9	***	***	67.3	71.7	***	***	71.2
27	824.8	168.4	643.9	635.5	241.6	185.3	***	***	75.3	63.6	***	***	69.6	73.6	***	***	73.1
28	829.3	179.4	651.7	644.6	252.1	194.4	***	***	77.3	65.6	***	***	71.3	75.4	***	***	74.8
29	833.6	190.0	659.3	652.8	263.0	202.2	***	***	80.1	67.8	***	***	73.0	76.7	***	***	76.6
30	837.5	199.7	666.8	660.5	274.8	208.0	***	***	82.7	69.8	***	***	74.9	77.4	***	***	78.3
31	841.9	209.9	674.4	667.9	288.3	212.8	***	***	84.9	72.0	***	***	76.9	77.9	***	***	79.9
32	845.6	220.5	682.0	675.1	303.9	225.1	***	***	86.8	73.9	***	***	78.8	79.1	***	***	81.3
33	849.5	232.0	689.6	682.2	350.2	242.5	***	***	88.5	76.0	***	***	80.7	80.7	***	***	83.1
34	853.2	245.9	703.3	689.2	391.8	262.5	***	***	90.3	78.6	***	***	82.5	82.3	***	***	85.0
35	857.0	259.5	712.0	694.8	391.7	288.0	***	***	93.3	80.9	***	***	84.3	83.8	***	***	86.9
36	860.1	267.0	713.7	700.3	396.4	296.8	***	***	96.0	82.8	***	***	86.2	85.1	***	***	88.6
37	863.3	273.5	715.2	705.8	412.6	296.1	***	***	97.9	84.9	***	***	88.3	86.2	***	***	90.1
38	866.5	281.9	717.4	699.2	425.7	304.4	***	***	99.3	86.5	***	***	90.5	87.4	***	***	91.6
39	869.5	290.4	715.7	657.9	441.0	321.4	***	***	100.4	87.8	***	***	92.3	88.0	***	***	92.9
40	872.9	297.1	713.3	653.7	457.5	341.4	***	***	101.3	89.1	***	***	94.0	89.4	***	***	94.1
41	876.1	304.1	717.2	654.8	478.6	359.7	***	***	102.5	90.2	***	***	95.5	90.9	***	***	95.4
42	878.7	313.3	720.7	661.4	497.3	361.1	***	***	103.8	91.4	***	***	96.9	93.0	***	***	96.7
43	881.5	320.0	718.2	664.8	508.7	357.3	***	***	105.6	93.5	***	***	98.2	94.7	***	***	97.9
44	883.9	323.8	701.8	668.2	516.1	357.3	***	***	108.2	95.5	***	***	99.5	95.9	***	***	99.1
45	886.8	334.5	700.2	675.3	523.0	351.1	***	***	112.4	97.6	***	***	100.8	97.2	***	***	100.3
46	889.7	341.5	698.8	684.4	530.2	341.2	***	***	119.9	99.3	***	***	102.0	98.3	***	***	101.5
47	892.1	349.8	696.0	687.1	537.1	346.6	***	***	132.4	100.8	***	***	103.2	99.4	***	***	102.7
48	895.1	361.0	690.6	689.2	543.6	355.7	***	***	150.9	102.4	***	***	104.8	100.4	***	***	103.9
49	898.2	370.5	686.7	687.3	549.9	369.1	***	***	170.9	104.2	***	***	107.5	101.3	***	***	105.2
50	899.2	378.8	683.9	677.8	555.7	384.1	***	***	189.1	106.5	***	***	111.4	102.4	***	***	106.4
51	902.1	383.5	682.0	660.7	562.5	398.0	***	***	200.9	108.7	***	***	118.5	103.3	***	***	107.7
52	904.3	400.2	680.7	646.3	569.1	409.7	***	***	212.8	111.6	***	***	127.1	104.4	***	***	109.1
53	906.7	414.6	680.1	636.4	576.5	420.5	***	***	225.0	117.0	***	***	139.1	105.4	***	***	110.6
54	909.0	429.6	679.8	633.5	583.1	430.4	***	***	235.9	123.7	***	***	153.9	106.6	***	***	112.3
55	910.9	442.8	679.7	635.2	589.6	440.4	***	***	244.8	137.7	***	***	168.5	107.6	***	***	114.2
56	913.1	454.9	679.8	640.6	596.3	451.2	***	***	253.0	156.4	***	***	181.9	108.7	***	***	116.4
57	915.2	465.7	680.2	645.4	603.7	461.3	***	***	260.6	174.4	***	***	192.9	109.7	***	***	118.9

Table 17. Temperatures Measured in Assembly S-23, Steel Studs, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
58	917.9	475.8	680.7	648.5	610.7	472.8	***	***	267.9	191.4	***	***	200.7	110.8	***	***	121.5	107.3
59	920.1	483.1	681.3	646.1	616.0	484.9	***	***	275.9	206.1	***	***	208.9	112.0	***	***	123.6	108.6
60	921.8	488.9	681.9	643.7	620.2	497.4	***	***	284.2	217.6	***	***	218.0	113.7	***	***	127.0	109.7
61	923.9	494.3	682.2	645.7	623.5	510.6	***	***	293.5	229.2	***	***	227.3	116.2	***	***	138.8	111.0
62	926.1	500.1	682.5	645.4	627.3	523.4	***	***	303.4	239.9	***	***	236.1	119.6	***	***	148.9	112.5
63	927.8	505.4	682.9	646.4	631.9	535.1	***	***	312.8	249.0	***	***	243.9	123.1	***	***	156.5	114.0
64	929.5	510.5	683.2	643.2	636.7	544.5	***	***	320.9	257.3	***	***	251.2	129.3	***	***	168.3	115.8
65	931.8	515.4	683.2	640.2	641.4	552.9	***	***	328.5	266.5	***	***	258.5	137.6	***	***	179.5	118.4
66	933.6	520.4	684.0	640.6	648.3	559.7	***	***	334.7	277.4	***	***	265.8	145.2	***	***	191.0	121.6
67	935.7	524.5	686.2	641.3	658.4	566.6	***	***	340.0	288.6	***	***	273.3	155.4	***	***	203.1	124.0
68	937.1	527.9	688.1	638.8	660.5	571.4	***	***	345.0	299.1	***	***	281.8	167.0	***	***	215.0	127.5
69	938.9	531.7	689.9	639.2	665.8	585.3	***	***	349.6	308.3	***	***	290.9	177.4	***	***	225.4	142.6
70	940.8	534.7	692.6	640.3	672.0	594.4	***	***	353.5	315.7	***	***	298.8	188.9	***	***	235.8	154.5
71	942.6	536.7	693.5	634.6	674.0	582.5	***	***	357.3	322.8	***	***	308.4	201.2	***	***	246.4	172.6
72	943.5	540.5	695.5	636.2	676.9	582.9	***	***	361.4	329.1	***	***	317.7	213.1	***	***	257.5	185.7
73	945.3	546.1	697.7	641.1	679.1	589.7	***	***	366.0	334.9	***	***	326.8	225.3	***	***	268.4	199.0
74	947.4	551.5	699.9	646.5	680.8	595.9	***	***	371.0	341.1	***	***	335.8	236.8	***	***	279.1	213.4
75	949.3	556.9	701.1	651.3	681.4	603.3	***	***	376.2	347.4	***	***	344.6	248.2	***	***	289.6	226.5
76	951.0	562.8	703.0	654.9	683.2	610.4	***	***	381.2	353.1	***	***	352.1	259.2	***	***	299.1	238.3
77	951.6	569.0	704.9	656.2	684.9	621.4	***	***	386.0	358.4	***	***	358.6	269.4	***	***	308.0	249.3
78	953.8	575.3	706.6	658.5	686.5	630.6	***	***	391.0	364.2	***	***	364.2	278.6	***	***	317.0	260.0
79	955.9	581.4	708.1	661.1	687.8	638.4	***	***	396.0	370.6	***	***	367.7	286.4	***	***	326.1	270.2
80	957.5	***	709.0	665.2	688.6	645.5	***	***	401.2	377.4	***	***	372.1	293.1	***	***	334.9	280.0
81	959.6	***	710.2	669.0	690.0	651.0	***	***	406.7	384.4	***	***	378.9	300.1	***	***	343.4	289.7
82	960.2	***	711.7	674.3	691.4	656.0	***	***	412.7	391.7	***	***	386.5	307.7	***	***	351.3	299.0
83	962.4	***	713.1	677.9	692.8	660.3	***	***	419.2	398.3	***	***	393.3	316.1	***	***	358.8	308.1
84	963.9	***	714.4	680.9	693.8	664.5	***	***	426.0	404.3	***	***	399.6	324.4	***	***	366.2	317.9
85	965.1	***	715.8	682.9	694.8	667.8	***	***	432.5	409.8	***	***	405.8	332.3	***	***	373.9	327.9
86	967.2	***	717.2	685.2	696.0	671.3	***	***	439.4	415.1	***	***	412.0	339.7	***	***	381.3	337.2
87	968.3	***	718.7	687.9	697.4	674.6	***	***	446.9	420.0	***	***	418.4	346.7	***	***	387.8	345.9
88	969.4	***	720.2	689.3	698.8	677.2	***	***	454.6	424.8	***	***	425.2	353.2	***	***	393.9	354.1
89	971.3	***	721.4	691.3	700.7	679.4	***	***	462.5	429.6	***	***	431.8	359.8	***	***	399.9	362.4
90	972.2	***	722.6	693.8	702.4	681.2	***	***	470.3	434.6	***	***	437.9	366.2	***	***	406.1	370.0
91	973.3	***	724.2	697.2	703.8	683.2	***	***	478.0	439.8	***	***	444.2	372.3	***	***	412.7	376.9
92	975.3	***	725.3	703.5	705.1	685.7	***	***	485.3	445.6	***	***	450.3	378.1	***	***	419.6	383.7
93	976.0	***	726.7	711.3	706.6	687.9	***	***	491.9	451.6	***	***	455.7	384.0	***	***	427.2	390.2

Table 18. Average Temperatures Measured in Assembly S-23, Steel Studs, 1x2 Gypsum Board Layers, Glass Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,18,19)	Mld SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
0	35.1	33.3	30.7	28.2	25.3	26.8	24.2	24.0
1	113.8	33.4	30.8	28.2	25.3	26.8	24.2	24.0
2	224.7	40.8	36.0	28.3	25.3	26.8	24.2	24.1
3	328.6	60.3	52.1	31.2	25.6	27.1	24.3	24.1
4	435.5	83.6	81.8	49.0	29.4	32.8	24.3	24.1
5	536.0	93.6	94.7	69.4	44.5	47.4	24.7	24.2
6	570.0	97.2	97.0	83.4	65.3	58.4	26.2	24.2
7	599.6	105.0	97.8	87.8	72.7	68.9	29.3	24.4
8	632.5	112.5	100.3	89.4	75.6	74.0	33.2	24.6
9	664.7	117.8	105.0	90.7	78.0	77.3	37.2	25.2
10	698.4	120.8	110.7	91.6	79.8	79.7	41.0	26.1
11	710.3	123.0	116.3	92.3	81.1	81.8	44.5	27.3
12	721.3	126.1	121.3	92.7	81.7	83.4	47.9	28.7
13	732.5	135.0	127.4	92.8	81.3	84.1	50.9	30.2
14	743.2	161.2	138.2	93.3	80.1	83.9	53.4	32.0
15	754.3	228.2	162.8	98.0	76.2	82.0	55.3	33.9
16	761.7	316.8	208.6	118.4	74.6	81.6	56.3	35.7
17	768.6	390.6	257.1	129.3	76.6	83.2	56.8	37.5
18	775.3	444.0	305.2	151.3	83.0	85.9	57.4	39.1
19	782.3	483.4	352.1	176.1	99.2	90.5	57.8	40.6
20	789.4	516.8	395.1	200.8	117.6	97.2	58.3	41.8
21	794.4	545.3	428.1	226.2	136.2	104.0	59.1	43.0
22	800.1	569.3	456.9	250.0	152.7	112.7	60.4	44.0
23	805.3	589.1	481.9	273.2	167.1	124.7	62.0	45.0
24	811.1	605.5	504.7	295.4	179.9	137.4	63.9	46.0
25	815.9	619.0	526.4	316.6	192.1	149.0	65.9	47.1
26	820.7	630.1	547.7	337.1	203.3	160.7	67.9	48.4
27	824.8	639.7	571.0	357.5	213.5	172.8	69.8	49.7
28	829.3	648.1	595.5	378.5	223.2	185.0	71.7	51.1
29	833.6	656.0	623.2	401.9	232.6	197.4	73.6	52.6
30	837.5	663.6	650.9	426.5	241.4	209.2	75.4	54.1
31	841.9	671.1	675.1	452.0	250.5	219.8	77.1	55.6
32	845.5	678.5	694.1	476.9	264.5	231.0	78.8	57.1
33	849.5	685.9	714.0	505.9	296.4	243.4	80.6	58.4
34	853.2	698.2	729.0	529.4	327.2	258.8	82.5	59.7
35	857.0	703.4	730.1	545.9	339.8	275.0	84.5	61.1
36	860.1	707.0	732.9	560.3	346.6	287.0	86.3	62.6
37	863.3	710.5	736.0	575.5	354.3	298.7	88.0	64.1
38	866.5	693.3	739.8	590.0	365.1	311.7	89.5	65.6
39	869.5	688.8	740.3	603.7	381.2	327.0	90.9	66.8
40	872.9	683.5	740.1	616.9	399.4	345.6	92.3	67.8
41	876.1	686.0	740.4	628.4	416.1	362.6	93.7	68.8
42	878.7	691.0	740.9	637.5	429.2	378.2	95.1	69.5
43	881.5	691.5	742.6	643.7	433.0	391.3	96.6	70.8
44	883.9	685.0	742.0	647.3	436.7	405.1	98.2	70.9
45	886.8	687.7	741.0	648.5	437.0	418.2	100.1	71.6
46	889.7	691.6	739.3	649.1	435.7	428.0	102.3	72.1
47	892.1	691.5	738.5	648.4	441.9	436.7	105.4	72.7
48	895.1	689.9	738.0	648.7	449.7	444.5	109.5	73.2
49	898.2	687.0	736.9	649.5	459.5	452.3	114.2	73.8
50	900.2	680.8	734.4	649.0	469.9	460.6	116.9	74.3
51	902.1	671.4	731.7	648.0	480.3	468.9	123.0	74.8
52	904.3	663.5	729.1	647.0	489.4	480.6	127.5	75.6
53	906.7	658.2	728.5	648.8	498.5	489.4	133.1	76.6
54	909.0	656.7	728.0	650.3	506.8	495.9	139.1	77.6
55	910.9	657.5	726.9	650.7	515.0	504.3	146.1	78.8
56	913.1	660.2	726.3	650.9	523.8	512.4	153.5	79.9
57	915.2	662.8	725.8	651.8	532.5	520.7	160.4	81.1

Table 18. Average Temperatures Measured in Assembly S-23, Steel Studs, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,18,19)	Mid SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
58	917.9	664.6	726.2	653.1	541.8	529.3	166.6	82.2
59	920.1	663.7	726.0	653.2	550.4	536.6	172.5	83.4
60	921.8	662.8	725.5	652.0	558.8	542.4	178.4	84.4
61	923.9	664.0	726.1	652.0	567.1	547.7	186.0	85.7
62	926.1	663.9	726.2	652.6	575.3	552.9	193.4	87.0
63	927.8	664.6	725.9	652.9	583.5	557.6	199.9	88.5
64	929.5	663.2	726.5	653.9	590.6	562.2	207.1	89.9
65	931.8	661.7	727.0	654.9	597.1	566.4	214.8	91.5
66	933.6	662.3	726.6	655.7	604.0	570.4	222.6	93.1
67	935.7	663.8	726.9	656.4	612.5	574.1	230.7	94.7
68	937.1	663.4	722.5	657.4	615.9	577.8	239.2	96.3
69	938.9	664.5	720.2	658.5	625.6	581.7	249.0	98.1
70	940.8	666.5	720.0	659.5	633.2	585.6	258.0	99.9
71	942.6	664.0	714.2	659.5	628.3	589.7	268.1	101.7
72	943.5	665.9	735.2	660.5	629.9	593.5	277.4	103.4
73	945.3	669.4	736.3	662.5	634.4	597.6	286.7	104.9
74	947.4	673.2	731.4	664.5	638.3	601.8	296.2	106.1
75	949.3	676.2	733.3	666.2	642.4	605.8	305.4	107.3
76	951.0	678.9	734.0	668.0	646.8	610.0	313.8	108.3
77	951.6	680.6	716.4	669.9	653.2	614.3	321.6	109.3
78	953.8	682.5	737.0	671.6	658.6	618.3	329.2	110.6
79	955.9	684.6	717.1	673.2	663.1	622.1	336.2	112.3
80	957.5	687.1	719.3	674.9	667.0	638.8	343.1	114.6
81	959.6	689.6	722.9	676.7	670.5	641.8	350.5	116.5
82	960.2	693.0	742.3	678.3	673.7	644.6	358.1	118.5
83	962.4	695.5	743.9	679.7	676.6	647.3	365.6	120.3
84	963.9	697.6	745.3	681.3	679.2	649.9	373.1	122.3
85	965.1	699.3	746.2	682.7	681.3	652.4	380.4	125.5
86	967.2	701.2	747.6	684.0	683.6	654.8	387.5	129.2
87	968.3	703.0	748.9	685.3	685.9	657.3	394.3	132.6
88	969.4	704.7	750.3	686.3	688.0	660.3	401.0	136.2
89	971.3	706.4	751.5	687.5	690.1	663.2	407.7	140.0
90	972.2	708.2	741.4	688.6	691.8	665.6	414.2	144.6
91	973.3	710.7	742.6	688.7	693.5	667.9	420.6	149.9
92	975.3	714.4	743.8	690.8	695.4	670.0	427.1	156.0
93	976.0	719.0	745.2	692.0	697.2	671.9	433.4	164.2

Table 19. Temperatures Measured in Assembly S-25, Steel Stud, 2x2 Gypsum Board Layers, Glass Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	29.2	24.7	24.6	24.5	24.5	24.5	25.2	25.1	25.2	25.1	24.3	24.3	24.3	24.3	24.5	24.5	24.5	24.4	24.4	24.4	24.6
1	115.5	24.7	24.6	24.5	24.5	24.5	25.3	25.1	25.2	25.3	24.3	24.3	24.3	24.3	24.5	24.5	24.5	24.4	24.3	24.3	24.6
2	224.7	24.7	24.6	24.5	24.5	24.5	25.1	25.1	25.1	25.1	24.3	24.3	24.4	24.3	24.5	24.5	24.5	24.5	24.5	24.5	24.6
3	328.3	24.7	24.6	24.5	24.5	24.5	25.3	25.3	25.2	25.3	24.4	24.3	25.1	24.6	24.5	24.5	24.6	24.6	24.9	24.9	24.6
4	428.0	24.7	24.6	24.5	24.5	24.5	25.4	25.3	25.4	25.3	24.7	24.5	27.6	25.9	24.6	24.5	25.0	24.9	36.6	29.8	24.7
5	529.8	24.7	24.6	24.5	24.5	24.5	25.2	25.1	25.2	25.2	25.5	25.1	34.8	30.5	24.8	24.6	28.9	26.8	74.2	59.7	25.0
6	567.5	24.8	24.6	24.6	24.6	24.5	25.3	25.3	25.4	25.4	27.9	26.9	46.9	41.0	25.5	24.9	39.6	34.2	83.5	79.1	26.9
7	601.7	24.8	24.6	24.6	24.6	24.6	25.4	25.3	25.5	25.4	33.2	31.8	61.0	56.2	27.4	25.8	53.5	45.6	88.2	84.7	31.2
8	632.8	24.8	24.7	24.6	24.6	24.6	25.4	25.3	25.5	25.3	39.2	43.6	72.4	70.7	31.1	29.4	69.2	62.7	91.6	90.6	38.1
9	663.6	24.8	24.8	24.6	24.7	24.6	25.4	25.3	25.6	25.3	45.8	59.9	79.7	80.8	35.1	38.6	80.9	81.0	93.5	93.5	47.1
10	699.2	24.8	25.1	24.7	24.7	24.7	25.2	25.1	25.4	25.2	56.1	73.8	84.1	87.5	39.9	52.0	86.8	91.4	94.4	95.3	55.5
11	712.0	24.9	25.7	24.7	24.8	24.7	25.3	25.2	25.6	25.3	61.6	82.8	87.0	91.5	46.2	65.3	90.8	94.0	84.9	96.4	63.3
12	721.3	24.9	26.9	24.9	24.9	24.8	25.4	25.4	25.5	25.5	66.7	87.6	89.1	93.3	55.0	74.2	92.6	94.6	95.1	97.4	69.9
13	732.5	25.0	29.0	25.1	25.0	24.9	25.6	25.5	25.6	25.8	73.7	89.8	91.1	94.2	65.8	79.1	92.9	94.6	97.0	98.2	74.5
14	742.2	25.1	31.9	25.7	25.3	25.1	25.8	25.5	25.8	25.9	79.3	90.7	92.9	94.7	74.4	81.7	92.8	94.2	101.1	101.3	77.4
15	754.6	25.3	35.4	26.5	25.8	25.5	26.0	25.9	26.0	26.1	81.1	90.7	94.4	95.2	78.5	89.1	91.8	93.4	105.2	104.5	78.4
16	761.3	25.6	39.1	27.7	26.4	25.9	26.2	26.1	26.3	26.1	81.0	90.4	95.5	95.6	80.2	83.6	90.7	92.0	112.6	112.6	78.0
17	768.4	25.9	42.6	29.3	27.3	26.6	27.0	27.1	26.7	26.9	79.4	89.7	96.0	95.9	78.6	83.6	90.7	89.5	119.0	114.8	77.0
18	775.5	26.4	45.6	31.2	28.4	27.5	27.7	28.0	26.9	27.4	80.7	90.4	97.3	96.2	78.6	84.6	92.8	90.3	135.1	132.5	77.6
19	782.6	27.1	48.2	33.3	29.6	28.5	28.4	28.8	27.6	28.0	82.0	91.8	98.0	97.4	79.6	86.9	94.9	91.6	149.4	146.9	78.7
20	789.6	27.7	50.3	35.3	31.0	29.7	29.3	29.9	28.2	28.4	82.8	92.4	98.1	98.4	80.6	88.0	97.1	92.3	162.9	158.4	79.5
21	794.0	28.6	52.4	37.5	32.6	31.0	29.9	30.7	28.9	28.5	83.8	92.8	98.6	98.3	81.6	88.5	93.3	92.8	173.6	164.8	80.2
22	800.1	29.5	54.2	39.5	34.2	32.4	30.7	32.0	28.7	29.4	85.0	93.0	98.9	98.7	82.3	89.1	101.9	93.7	180.2	167.8	80.7
23	805.0	30.7	55.9	41.6	36.0	33.8	31.6	32.6	29.3	29.9	85.4	93.0	99.4	98.9	82.9	89.3	105.5	96.0	187.1	167.8	81.4
24	811.5	31.9	57.2	43.4	37.8	35.2	32.5	34.0	30.4	30.5	85.9	93.0	100.2	99.3	83.3	89.4	108.4	98.7	195.0	169.9	82.0
25	815.6	33.2	58.4	45.3	39.7	36.8	33.3	34.9	31.0	31.0	86.2	93.3	101.8	100.0	83.9	89.7	111.1	101.6	205.5	175.7	82.7
26	821.5	34.7	59.4	47.1	41.6	38.2	34.2	35.9	30.8	32.0	86.9	93.7	104.5	102.0	84.5	90.0	114.5	105.1	214.2	182.7	83.6
27	825.5	36.3	60.4	48.8	43.6	39.7	34.8	36.6	32.0	32.2	87.8	94.1	107.8	106.1	85.3	90.6	118.0	107.9	222.8	190.9	84.5
28	829.8	37.9	61.2	50.4	45.4	41.1	35.6	37.8	33.1	33.4	88.2	94.4	111.6	110.6	86.0	91.0	121.7	110.6	233.2	197.7	85.5
29	834.0	39.5	61.9	51.8	47.2	42.5	35.9	38.5	33.5	33.8	88.9	94.8	115.6	114.6	86.6	91.3	125.4	113.3	244.4	206.0	86.4
30	836.6	41.3	62.4	53.2	49.0	43.9	36.5	39.0	33.0	34.7	89.1	95.0	118.7	117.7	87.1	91.4	129.1	117.1	254.5	213.1	87.5
31	841.5	42.9	63.0	54.5	50.6	45.1	37.0	39.8	33.2	34.8	88.9	95.2	121.1	120.0	87.1	91.1	132.8	122.9	263.5	220.1	88.6
32	844.9	44.7	63.5	55.7	52.1	46.4	37.6	40.8	33.9	35.3	89.3	95.4	122.8	121.6	87.6	91.0	135.9	128.3	269.8	226.7	88.6
33	849.1	46.4	63.9	56.7	53.5	47.7	37.9	41.1	34.1	35.6	89.4	95.8	124.2	122.7	87.7	90.7	138.8	133.3	276.8	236.1	90.8
34	853.2	48.0	64.3	57.7	54.9	48.7	38.1	42.0	35.3	36.2	89.9	97.1	125.7	123.8	87.7	90.7	142.3	138.6	286.0	246.5	92.4
35	857.0	49.5	64.6	58.6	56.0	49.9	37.5	41.3	34.1	35.4	89.9	98.3	127.2	124.9	87.8	90.3	146.6	144.3	297.5	260.9	94.3
36	860.5	50.9	64.9	59.3	57.1	50.9	39.1	43.7	35.4	37.0	89.4	99.3	129.2	126.2	87.4	89.6	151.5	150.6	310.3	278.1	96.8
37	863.4	52.1	65.2	59.9	58.0	51.9	39.8	43.6	37.1	36.8	90.0	100.7	132.0	128.1	87.4	89.0	157.1	156.7	328.9	298.9	99.7
38	865.6	53.2	65.4	60.5	58.8	52.8	39.7	44.1	36.4	38.3	90.3	102.6	136.3	131.3	87.2	88.7	163.7	165.5	352.5	326.3	103.3
39	870.0	54.3	65.5	60.9	59.5	53.6	40.4	44.2	37.0	37.7	93.1	106.1	139.6	136.3	87.0	87.6	171.2	174.7	373.4	362.2	107.5
40	872.8	55.0	65.5	61.1	60.0	54.2	40.1	43.7	37.3	37.4	97.1	109.2	145.8	140.2	86.3	86.8	179.5	185.3	390.7	391.4	111.3
41	875.3	55.5	65.5	61.3	60.4	54.8	40.0	43.3	36.6	38.2	104.3	112.7	162.6	148.6	85.4	86.2	188.6	197.6	406.6	398.6	115.5
42	879.0	56.1	65.5	61.3	60.6	55.3	39.7	42.5	36.4	37.2	115.0	116.9	176.8	167.6	85.8	83.3	198.1	210.3	420.8	408.8	120.6
43	881.3	56.4	65.5	61.3	60.7	55.7	40.6	43.8	37.2	37.7	131.0	124.5	203.7	184.2	88.0	82.5	207.5	222.6	431.8	421.8	125.8
44	884.1	56.5	65.5	61.2	60.7	56.0	40.5	43.7	37.5	37.6	155.5	136.6	230.7	218.4	92.9	84.9	216.2	233.8	436.3	435.7	131.2
45	887.4	56.4	65.5	61.1	60.5	56.1	40.2	43.8	36.9	38.1	170.6	154.0	253.4	250.3	98.2	89.3	224.2	245.1	445.3	450.4	136.6
46	889.3	56.4	65.5	61.0	60.4	56.2	39.3	43.0	36.4	37.1	185.8	168.6	275.6	272.2	103.5	93.5	231.9	256.7	448.5	458.9	141.9
47	892.9	56.3	65.5	61.0	60.4	56.4	38.9	42.8	36.7	37.9	203.2	180.3	298.4	292.8	110.0	96.5	238.8	267.5	452.6	457.2	147.1
48	895.1	56.3	65.6	60.9	60.3	56.5	38.9	41.9	35.5	36.5	219.0	192.6	323.5	313.8	117.0	100.7	245.6	277.8	458.4	477.3	151.7
49	897.1	56.4	65.7	60.9	60.3	56.6	40.7	43.1	37.1	37.9	235.2	205.0	344.7	333.9	124.4	106.9	252.1	287.8	484.6	488.0	155.9
50	900.2	56.4	65.9	60.8	60.3	56.8	40.4	42.6	36.6	38.1	251.4	217.4	365.0	3							

Table 19. Temperatures Measured in Assembly S-25, Steel Stud, 2x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	917.8	58.4	68.1	61.8	62.9	62.1	41.3	42.9	37.0	39.4	345.3	301.8	455.7	457.7	199.1	165.5	312.4	368.4	537.8	593.0	195.8
59	918.9	59.0	68.5	62.1	63.5	63.1	41.4	42.9	37.9	39.5	353.9	310.5	464.5	468.0	207.0	172.7	319.8	377.2	546.5	614.4	200.8
60	923.2	59.5	69.0	62.7	64.1	64.1	41.6	43.9	38.9	40.2	361.8	318.9	473.2	477.3	214.8	179.0	327.3	386.5	565.7	637.4	205.7
61	924.4	60.2	69.3	63.1	64.6	65.0	42.8	43.5	37.9	40.4	369.5	326.8	481.7	486.3	222.5	184.8	334.6	395.8	567.2	668.3	210.7
62	925.3	60.7	69.6	63.6	65.1	65.7	43.6	44.7	38.2	40.4	376.8	334.3	489.6	494.6	229.9	190.4	342.9	405.6	581.9	703.5	215.8
63	928.2	61.1	70.0	64.2	65.5	66.4	43.3	45.3	39.1	41.5	383.1	341.7	496.9	502.7	236.7	195.8	351.0	416.3	591.6	732.2	221.1
64	930.0	61.4	70.4	64.9	66.0	67.1	44.3	47.1	41.1	42.9	390.0	348.8	504.0	511.1	243.1	201.0	357.9	428.1	600.4	744.7	226.2
65	931.5	61.6	70.8	65.4	66.4	67.5	42.9	45.3	38.7	41.2	396.1	356.0	510.4	520.1	249.3	206.3	364.4	440.8	609.1	753.8	231.2
66	933.8	61.7	71.2	65.9	66.7	67.9	43.7	45.9	39.0	41.2	401.5	363.2	516.6	529.6	255.1	211.4	370.0	453.7	618.6	760.7	235.9
67	935.4	61.9	71.6	66.2	67.1	68.2	43.7	45.8	38.8	41.9	406.8	370.7	522.7	539.1	260.7	216.7	376.6	456.9	627.3	762.6	240.6
68	937.5	62.4	72.0	66.6	67.4	68.5	42.6	45.1	37.8	41.3	411.5	378.4	528.6	548.7	266.0	222.1	383.2	480.5	635.9	760.5	245.5
69	939.2	63.0	72.5	67.3	67.7	68.9	45.1	47.4	39.8	43.5	416.0	386.2	534.4	558.6	271.0	227.7	391.0	495.0	645.8	759.9	250.5
70	941.6	63.8	73.0	67.9	68.0	69.1	43.6	45.9	38.1	41.4	419.7	394.0	540.1	568.3	275.9	233.6	398.0	514.0	655.9	760.7	255.6
71	942.0	64.5	73.4	68.7	68.4	69.5	44.2	45.4	38.3	41.9	423.3	401.4	546.0	577.6	280.7	239.2	404.4	536.5	666.1	761.9	260.5
72	943.4	65.1	73.9	69.6	68.8	69.9	44.7	45.3	38.2	43.3	426.4	408.3	552.2	585.9	285.3	244.9	410.9	560.2	675.0	761.2	265.5
73	945.4	65.7	74.4	70.5	69.2	70.4	45.2	47.1	39.3	43.5	428.6	414.5	559.3	593.3	289.7	250.5	418.3	585.0	681.3	761.6	270.6
74	947.0	66.3	75.0	71.4	69.7	70.7	46.5	47.0	39.1	44.3	430.9	420.1	566.9	600.3	294.0	255.6	424.3	604.7	686.9	765.3	275.8
75	948.6	66.8	75.5	72.3	70.1	71.0	46.0	48.1	40.6	43.7	433.6	426.2	574.2	608.8	298.4	261.1	429.8	614.4	691.5	766.5	280.7
76	950.3	67.4	76.0	73.3	70.5	71.3	48.0	49.2	41.3	45.1	435.9	433.2	582.2	618.7	302.9	266.9	434.9	619.9	684.5	768.4	285.4
77	952.0	67.9	76.6	74.4	70.9	71.6	47.8	47.8	40.0	43.6	437.7	440.3	596.1	627.4	307.5	272.9	440.2	626.1	696.5	769.7	290.2
78	954.6	68.2	77.1	75.4	71.2	71.7	48.0	50.3	42.2	45.7	439.5	446.7	602.8	632.3	312.2	278.6	445.6	631.9	700.4	771.6	295.0
79	955.3	68.7	77.6	76.4	71.7	71.9	47.4	49.6	41.5	44.7	441.9	452.5	610.0	638.1	317.2	284.0	450.6	635.5	700.7	773.4	299.9
80	957.5	68.9	78.2	77.3	71.9	72.1	45.7	48.5	36.7	43.2	445.3	457.7	617.6	643.8	323.0	289.4	455.4	640.3	703.9	772.9	304.7
81	959.4	69.2	78.7	78.2	72.3	72.2	47.7	50.4	42.1	44.9	450.2	462.4	625.7	649.5	330.1	294.4	460.4	647.1	707.5	770.8	309.4
82	960.4	69.6	79.3	78.9	72.7	72.3	48.3	49.3	41.8	45.8	458.1	466.7	634.2	654.6	338.4	299.0	465.1	655.6	710.6	769.1	314.3
83	962.2	69.8	79.9	79.5	73.1	72.4	49.0	51.1	41.9	45.2	462.8	470.8	642.6	659.7	347.4	303.6	470.4	663.4	712.3	767.3	319.4
84	964.2	70.0	80.5	80.0	73.3	72.5	48.2	49.6	41.2	44.1	470.3	474.4	650.4	663.1	355.9	307.8	475.7	688.4	711.8	765.6	324.8
85	965.5	70.2	81.2	80.4	73.7	72.6	48.3	50.9	40.9	44.3	478.3	478.0	658.3	667.7	363.7	311.9	483.7	671.6	713.2	765.2	331.0
86	966.7	70.4	81.9	80.6	73.9	72.8	47.1	51.4	42.5	42.9	486.6	481.7	665.8	672.4	371.2	316.0	492.9	673.5	713.6	768.3	338.7
87	968.4	70.5	82.6	80.8	74.2	72.9	49.7	51.7	42.6	44.6	493.3	485.5	672.6	675.4	379.0	320.0	502.1	675.4	713.2	764.5	347.5
88	968.9	70.8	83.5	80.9	74.6	73.1	50.5	53.6	43.8	47.1	501.0	489.3	678.6	690.0	386.3	324.2	512.2	677.2	713.9	763.1	357.3
89	971.0	71.1	84.4	81.0	75.2	73.5	50.6	54.2	45.5	46.7	508.5	493.4	683.8	684.8	393.6	328.6	529.7	679.2	714.9	761.1	367.9
90	972.5	71.4	85.5	81.1	75.7	73.9	51.0	54.9	44.7	46.1	515.2	497.4	688.0	688.5	401.3	332.9	532.3	680.8	714.8	759.1	378.6
91	973.9	71.9	86.6	81.4	76.3	74.4	51.1	54.6	44.9	45.4	522.8	501.6	691.5	691.8	409.6	337.4	539.5	681.5	714.6	758.4	388.8
92	975.0	72.2	87.7	81.5	77.0	74.9	50.4	54.7	45.9	46.4	530.9	506.0	694.9	696.1	417.8	342.3	545.4	682.4	713.9	757.8	398.0
93	976.2	72.8	88.9	81.7	77.9	75.5	51.4	55.3	47.4	47.5	539.2	510.7	698.0	699.5	425.2	347.4	550.8	683.5	713.3	757.4	406.8
94	977.1	73.4	90.2	82.1	78.8	76.3	51.2	56.1	46.6	47.3	547.0	515.8	700.8	703.6	432.8	352.7	555.6	684.7	712.9	757.1	415.7
95	978.0	73.9	91.5	82.5	79.5	77.0	51.9	55.6	46.3	48.1	555.5	521.4	703.8	709.0	441.8	358.7	560.2	684.9	712.5	754.8	424.7
96	979.8	74.5	92.7	83.2	80.3	77.8	51.9	55.3	45.6	47.5	565.3	527.1	706.6	711.9	450.6	365.3	564.8	684.3	712.0	753.8	433.5
97	981.3	75.0	93.9	84.2	81.1	78.6	52.7	55.2	46.6	48.0	574.6	533.0	709.2	715.5	460.1	372.3	569.3	683.5	712.1	751.3	442.8
98	982.8	75.8	95.2	85.6	82.1	79.5	53.0	56.7	46.7	49.2	583.9	539.1	711.9	718.8	469.9	378.8	574.0	682.8	712.4	750.8	454.3
99	984.2	76.5	96.4	87.9	83.1	80.3	53.1	55.3	46.6	48.6	593.2	545.3	714.3	721.9	479.4	385.1	579.6	682.7	713.4	751.2	469.0
100	985.5	77.1	97.5	90.5	83.9	81.2	53.3	56.5	45.9	48.8	602.1	551.4	716.5	725.0	488.8	392.0	585.1	682.4	714.2	751.2	483.2
101	986.2	77.8	98.6	93.2	84.9	82.0	54.7	56.4	47.6	49.6	610.2	557.8	718.6	728.0	498.2	400.0	589.7	682.0	715.8	751.5	494.0
102	988.9	78.4	99.7	95.9	86.7	82.9	55.9	55.7	45.4	49.8	617.4	565.3	720.4	731.4	507.6	410.7	594.2	681.8	716.2	751.9	503.1
103	988.9	79.0	100.5	98.4	86.6	83.9	54.9	56.7	47.9	50.7	623.8	573.6	722.3	734.9	516.1	420.8	599.6	681.7	716.4	752.3	511.5
104	989.9	79.6	101.5	100.7	87.9	85.0	57.2	58.2	49.0	51.9	630.6	583.1	723.6	739.4	524.9	431.4	603.8	681.5	716.2	751.4	516.1
105	990.8	80.4	102.3	102.7	89.2	86.2	56.7	55.7	45.9	50.1	637.8	592.3	726.0	742.6	534.9	441.2	607.8	681.2	716.3	751.7	518.3
106	992.2	80.9	103.1	104.4	91.0	87.6	58.4	55.6	47.3	48.7	644.7	600.4	727.7	742.3	545.3	449.9	611.5	681.0	716.6	752.7	520.3
107	993.0	81.3	103.8	105.9	93.1																

Table 19. Temperatures Measured in Assembly S-25, Steel Stud, 2x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
116	1001.5	100.1	108.8	113.8	107.5	103.0	70.8	62.4	54.5	56.9	683.0	664.5	730.0	721.7	614.2	541.5	644.2	682.0	711.1	757.5	570.3
117	1002.0	101.7	109.2	114.7	108.4	104.0	70.4	62.6	54.4	60.2	683.6	666.2	728.7	720.6	616.1	550.4	645.8	681.7	710.6	757.5	574.7
118	1003.2	103.1	109.6	115.6	109.1	104.9	71.2	61.7	57.2	57.6	684.2	666.9	727.5	719.5	617.8	555.7	647.3	681.2	710.7	757.8	578.7
119	1003.8	104.2	110.1	116.7	109.8	105.8	69.5	83.0	55.1	59.4	685.5	666.5	726.1	717.9	619.3	558.2	649.1	680.8	711.3	758.8	582.5
120	1004.3	105.3	110.6	118.0	110.4	106.5	72.6	63.5	55.1	60.1	685.7	665.2	724.9	716.1	620.2	565.1	650.6	680.5	712.0	759.4	586.2
121	1005.3	106.1	111.1	119.3	111.0	107.2	72.8	65.3	56.7	60.1	685.6	665.7	724.0	714.2	620.9	572.8	651.9	680.0	712.9	759.8	590.0
122	1005.8	106.8	111.5	120.1	111.4	107.9	72.6	65.4	53.8	59.1	686.0	666.6	723.5	712.8	621.9	580.9	653.2	679.5	714.5	760.1	594.1
123	1006.5	107.2	112.0	120.5	111.9	108.5	73.5	64.6	56.3	58.2	687.7	666.6	723.2	711.4	623.1	586.8	653.5	678.9	716.2	760.7	598.0
124	1007.3	107.8	112.6	120.7	112.4	109.1	73.9	65.5	56.4	61.8	687.3	666.7	723.2	710.3	623.9	591.4	654.1	678.2	716.7	761.0	601.6
125	1008.1	108.6	113.2	121.2	113.0	109.6	75.4	69.6	57.6	62.4	684.1	666.6	722.4	709.2	621.6	595.6	656.9	677.4	718.0	761.7	605.2
126	1008.6	109.1	113.9	122.5	113.7	110.2	76.0	70.3	61.1	63.5	681.4	666.5	721.4	708.3	618.4	599.6	658.0	676.7	719.6	761.6	609.7
127	1008.9	109.7	114.7	125.2	114.3	110.7	76.4	69.7	58.2	63.1	682.8	667.0	721.3	707.8	616.4	603.8	680.1	675.5	721.3	761.8	614.4
128	1010.5	110.3	115.6	129.4	115.1	111.2	76.9	70.4	59.5	64.2	683.2	666.5	720.5	707.1	613.0	607.1	659.9	675.5	722.1	762.4	617.6
129	1010.5	110.7	116.5	131.1	115.9	111.8	79.4	70.9	59.3	63.4	684.3	666.0	719.8	706.3	609.9	610.6	660.7	676.5	723.5	763.4	620.5
130	1011.1	111.3	117.4	132.6	117.0	112.4	79.3	72.0	57.0	60.9	685.7	665.4	719.4	705.7	609.1	615.0	661.1	677.4	724.5	765.1	623.2
131	1013.3	111.8	118.4	134.5	118.8	113.1	81.1	72.0	61.4	66.3	687.8	664.9	719.4	705.2	609.7	618.9	662.6	678.3	726.1	766.2	626.1
132	1013.1	112.8	119.4	137.7	121.9	113.9	85.1	73.2	61.1	66.5	685.9	664.2	719.8	704.7	609.4	621.3	665.1	679.1	728.0	769.0	628.9
133	1013.6	113.8	120.8	145.2	127.2	115.2	82.7	72.5	63.8	64.7	686.8	664.0	720.4	704.6	609.6	624.0	666.9	679.7	729.4	770.5	631.3
134	1015.2	115.3	122.5	153.5	132.1	117.2	87.3	73.9	63.2	67.7	686.2	663.4	720.6	704.5	610.8	626.3	668.4	680.1	730.5	771.4	633.2
135	1015.8	117.6	124.3	157.9	141.2	120.6	90.2	74.8	65.3	66.2	685.3	662.9	720.8	704.5	609.6	628.7	670.1	680.1	732.1	773.1	634.9
136	1014.9	121.8	126.8	162.8	152.1	124.9	98.0	76.2	62.9	67.8	685.3	662.7	721.3	704.5	611.0	630.3	671.6	680.7	733.8	774.7	636.8
137	1016.3	127.0	129.4	178.1	158.7	130.3	103.5	77.8	63.9	67.1	685.9	663.1	721.8	704.9	613.6	632.1	673.6	681.5	734.3	776.2	638.9
138	1017.0	134.2	132.0	193.0	174.7	138.5	106.6	76.0	63.6	64.9	689.7	663.3	721.8	705.3	616.8	633.3	674.4	682.0	734.9	777.8	640.6
139	1017.5	144.8	132.5	206.4	193.1	146.4	111.5	77.2	65.8	70.4	692.2	663.8	722.8	706.0	620.9	634.4	675.9	683.0	736.5	779.5	642.6
140	1019.5	153.4	135.5	219.6	209.5	154.5	116.4	78.4	65.9	70.7	693.2	663.8	723.1	706.4	624.6	634.7	677.0	683.2	738.3	781.6	644.8

Table 19. Temperatures Measured in Assembly S-25, Steel Stud, 2x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number															
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
0	29.2	24.5	24.3	24.2	24.5	24.4	24.2	24.1	24.4	24.3	23.9	23.9	24.5	24.5	24.1	24.0	24.3
1	115.5	24.5	24.2	24.1	24.4	24.4	24.4	24.3	24.3	24.3	24.5	24.3	24.5	24.5	24.5	24.3	24.3
2	224.7	24.5	24.3	24.2	24.5	24.4	31.0	27.6	24.3	24.3	34.2	28.5	24.6	24.5	33.1	30.5	24.3
3	328.3	24.6	24.9	24.4	24.5	24.4	59.1	43.5	24.4	24.3	54.4	43.3	24.6	24.6	53.7	44.9	24.4
4	428.0	24.7	27.0	25.5	24.5	24.4	87.0	77.8	24.4	24.3	72.5	62.3	24.6	24.5	75.7	65.5	24.4
5	529.8	24.9	31.5	28.7	24.6	24.4	90.5	95.8	24.4	24.3	84.2	80.4	24.6	24.6	85.5	77.0	24.4
6	567.5	25.8	42.3	35.7	24.9	24.5	92.0	96.3	24.4	24.3	87.5	87.3	24.6	24.6	88.5	84.1	24.5
7	601.7	28.1	59.4	49.1	25.6	24.7	93.7	96.3	24.4	24.3	90.1	90.5	24.6	24.6	94.2	90.8	24.4
8	632.8	33.7	75.6	62.5	28.3	25.3	94.5	96.4	24.6	24.4	94.9	94.7	24.7	24.6	99.8	97.5	26.3
9	663.6	47.1	84.8	74.4	36.4	27.1	94.8	97.2	24.8	24.5	103.1	100.8	24.7	24.7	102.7	102.3	29.2
10	699.2	68.8	89.7	82.6	49.4	32.8	95.3	98.0	25.1	24.9	109.5	105.0	25.1	24.8	107.6	105.5	34.6
11	712.0	77.4	92.3	87.4	61.4	43.4	96.3	100.3	26.7	25.8	114.4	108.4	25.7	25.2	112.1	107.7	42.8
12	721.3	81.5	93.2	90.0	69.7	53.5	98.7	104.3	26.5	27.4	118.5	112.7	27.0	26.1	116.2	110.9	51.9
13	732.5	84.1	93.4	91.3	74.6	60.1	104.7	113.1	27.7	29.8	125.1	118.5	29.1	27.7	121.8	115.8	59.2
14	742.2	84.8	93.3	91.9	77.3	64.2	120.6	125.1	29.5	32.7	142.3	127.1	31.8	29.8	139.1	125.3	63.9
15	754.6	85.0	92.7	91.9	77.8	66.5	142.6	136.1	32.2	36.0	187.0	147.0	35.1	32.4	158.6	148.6	66.7
16	761.3	83.7	92.1	91.4	77.0	67.6	168.2	149.8	35.4	39.4	229.5	190.7	38.5	35.0	198.7	188.7	67.7
17	768.4	80.5	95.3	92.1	75.7	67.8	186.5	165.0	38.5	42.5	263.2	221.6	41.6	37.4	230.3	215.8	67.7
18	775.5	79.3	95.7	93.2	76.6	68.5	197.8	186.2	41.2	45.3	286.9	254.4	41.1	39.5	253.9	235.8	68.3
19	782.6	80.4	96.0	94.4	77.8	70.2	213.0	200.2	43.4	47.9	307.2	280.9	46.4	41.4	276.0	256.3	69.7
20	789.6	81.5	97.7	95.3	78.9	71.8	232.0	215.1	45.5	50.6	322.3	302.6	48.4	43.2	296.3	278.3	70.8
21	794.0	82.1	102.8	98.5	79.6	72.9	245.5	231.5	47.5	53.1	337.8	317.5	50.4	45.0	313.9	297.3	71.8
22	800.1	82.2	107.9	104.3	80.1	73.8	257.3	246.1	49.5	55.6	352.2	331.7	52.3	46.8	330.2	315.2	72.5
23	805.0	82.3	112.0	109.4	80.5	74.4	269.4	258.6	51.4	57.8	363.9	344.1	54.0	48.4	347.8	333.4	71.0
24	811.6	82.4	115.8	113.8	80.8	75.1	279.5	272.3	53.2	59.8	373.6	355.4	55.5	50.0	365.5	350.3	73.4
25	815.6	82.6	119.1	117.5	81.3	75.7	291.6	286.8	54.9	61.5	384.3	366.4	56.8	51.3	381.7	365.0	73.7
26	821.5	83.0	121.6	120.4	81.6	76.5	301.7	300.9	56.4	63.1	396.5	375.8	58.0	52.7	397.7	376.4	74.0
27	825.5	83.5	124.2	122.7	82.1	77.3	309.2	315.0	57.9	64.6	409.4	387.2	59.0	54.0	414.6	388.6	74.2
28	829.8	83.9	127.0	124.7	82.5	78.0	317.8	328.2	59.3	66.1	421.2	398.4	60.1	55.3	430.2	402.2	74.5
29	834.0	84.5	129.1	126.3	82.9	78.8	328.6	340.6	60.7	67.5	432.8	409.1	61.0	56.5	445.3	417.4	67.2
30	838.6	84.9	132.0	128.6	83.1	79.4	343.1	351.0	62.0	68.8	445.5	420.3	61.8	57.7	461.8	432.7	75.0
31	841.5	85.1	135.0	130.8	83.3	79.9	358.5	360.7	63.2	70.1	457.7	433.0	62.6	58.9	478.6	448.0	75.2
32	844.9	85.7	138.0	133.6	83.3	80.2	372.0	380.0	64.3	71.2	470.0	445.7	63.3	59.9	495.0	463.6	75.3
33	849.1	86.2	142.5	137.2	83.9	80.6	385.1	395.2	65.1	72.1	482.4	458.0	63.8	60.8	509.6	478.7	75.2
34	853.2	86.8	152.3	141.8	83.2	80.8	400.7	407.9	66.0	72.8	494.5	471.2	64.4	61.7	522.8	493.6	75.3
35	857.0	87.2	162.8	149.4	83.1	81.0	414.2	422.4	68.8	73.4	505.9	484.0	64.9	62.5	534.6	506.6	75.3
36	860.5	87.5	174.3	159.1	82.8	81.0	429.6	437.9	67.5	73.8	516.8	496.3	65.2	63.2	545.6	519.2	75.2
37	863.4	88.1	186.8	170.7	82.6	80.9	446.9	453.1	68.0	74.0	527.1	507.2	65.4	63.8	556.4	532.2	71.0
38	865.6	89.0	201.3	184.7	82.0	81.0	463.7	468.0	68.3	74.0	537.3	517.4	65.6	64.2	567.4	545.9	71.0
39	870.0	90.5	216.8	203.8	81.2	80.6	480.2	485.3	68.6	74.0	547.3	527.8	65.7	64.6	578.2	560.2	74.8
40	872.8	99.6	235.2	223.1	79.5	80.0	497.2	502.6	68.9	73.7	557.9	538.1	65.6	64.7	589.0	573.6	74.6
41	875.3	104.8	256.6	248.9	78.2	78.9	513.1	518.0	68.9	73.2	570.6	550.1	65.4	64.6	600.2	587.0	70.2
42	879.0	110.5	280.7	276.6	77.9	78.0	529.7	531.8	68.7	72.4	583.5	563.1	64.9	64.3	610.9	599.2	74.2
43	881.3	116.0	308.4	304.7	79.5	78.0	547.3	545.0	68.4	71.6	596.8	576.5	64.5	63.8	621.1	610.4	69.4
44	884.1	121.4	337.5	333.9	84.4	79.2	565.3	559.1	68.1	70.8	609.9	589.7	64.3	63.4	630.8	621.3	74.0
45	887.4	126.5	358.2	363.5	94.7	81.8	584.1	576.8	68.0	70.6	624.2	603.0	64.2	63.0	640.2	631.8	74.0
46	889.3	131.6	380.5	392.2	111.0	84.8	602.5	598.7	68.1	70.5	637.6	616.5	64.2	62.9	648.0	639.5	74.1
47	892.9	136.9	400.8	419.7	127.5	91.0	619.2	616.9	68.2	70.5	650.9	629.3	64.2	62.8	654.6	647.5	74.3
48	895.1	142.2	418.9	441.7	141.3	101.0	634.0	633.7	68.4	70.6	663.5	642.5	64.3	62.6	661.3	655.8	74.6
49	897.1	147.3	435.7	460.7	154.0	111.5	648.2	650.3	68.8	70.7	675.4	655.2	64.6	62.7	668.0	664.5	74.9
50	900.2	152.1	451.2	478.0	165.7	121.8	662.0	664.8	69.4	71.0	686.3	667.0	65.1	62.9	674.8	673.4	75.2
51	901.7	156.5	465.1	494.2	176.1	131.9	675.6	679.2	70.2	71.6	696.8	677.9	65.8	63.2	681.9	682.9	75.5
52	904.8	160.9	477.5	508.7	184.6	141.7	688.7	692.5	71.3	72.3	706.8	688.3	66.6	63.8	688.7	691.6	75.9
53	907.4	165.7	488.7	521.5	191.8	150.8	701.8	704.6	72.7	73.1	716.7	699.0	67.6	64.5	696.0	701.4	76.4
54	909.1	170.8	499.3	533.4	196.7	159.2	714.5	716.7	74.3	73.9	725.5	709.4	68.7	65.2	703.0	710.2	76.9
55	910.6	176.0	509.7	544.7	204.0	167.2	726.8	728.9	75.9	74.8	733.7	718.8	69.7	66.1	709.2	717.9	77.5
56	913.9	181.2	519.2	554.6	214.1	174.5	738.4	739.6	77.5	75.6	741.6	727.7	70.7	67.1	715.5	725.3	78.4
57	915.8	186.4	528.4	564.4	223.1	181.6	749.7	750.7	78.8	76.4	749.1	735.8	71.7	68.0	721.3	732.3	79.5

Table 19. Temperatures Measured in Assembly S-25, Steel Stud, 2x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
58	917.8	191.8	537.5	573.3	232.0	189.0	760.7	762.4	80.0	77.1	756.4	743.1	72.5	68.9	726.6	739.7	80.8	71.6
59	918.9	197.1	546.5	582.1	241.1	196.4	771.4	777.9	81.0	77.8	764.1	750.2	73.3	69.9	731.9	750.4	81.9	72.5
60	923.2	202.5	555.0	589.9	249.2	203.5	781.9	791.6	81.9	78.3	770.6	756.8	73.9	70.7	736.2	761.7	83.0	73.3
61	924.4	207.9	563.4	597.6	257.3	210.2	792.0	807.8	82.5	78.9	777.2	763.2	74.6	71.2	740.8	778.7	84.0	74.2
62	925.3	213.5	572.0	605.4	265.3	216.4	801.3	825.7	83.1	79.4	783.9	769.1	75.3	71.6	745.2	798.2	85.0	75.0
63	928.2	219.1	580.1	612.5	273.5	222.4	810.4	834.6	83.6	79.9	790.0	774.9	76.1	72.1	749.5	808.7	86.0	76.0
64	930.0	225.1	588.2	619.5	281.9	227.9	818.8	844.1	84.2	80.4	796.5	780.4	77.3	72.4	753.7	813.1	87.1	76.9
65	931.5	231.4	596.6	626.8	289.5	233.2	827.1	853.6	84.5	81.0	802.8	785.3	78.6	72.5	757.5	814.3	88.1	77.9
66	933.8	238.1	604.9	633.4	296.3	238.6	834.3	854.7	85.2	81.7	809.1	790.4	80.2	72.2	781.4	816.7	89.1	79.6
67	935.4	245.0	614.1	640.2	302.6	244.0	841.8	862.3	86.1	82.8	815.7	794.7	81.8	72.3	764.5	818.2	90.1	81.7
68	937.5	252.2	623.4	646.3	308.5	249.6	849.0	863.8	87.1	84.1	823.7	799.2	83.2	73.1	767.8	821.0	91.2	84.2
69	939.2	259.9	633.4	651.8	314.0	254.8	856.2	865.5	88.1	85.3	836.3	803.8	84.5	74.5	771.1	824.7	92.2	86.4
70	941.6	268.2	643.2	655.2	319.5	259.9	862.9	872.4	89.0	86.5	850.3	808.8	85.6	76.6	775.2	825.8	93.3	88.2
71	942.0	277.2	655.6	657.6	325.5	264.6	868.1	876.4	89.8	87.6	860.0	813.2	86.6	78.6	778.5	824.4	94.4	89.8
72	943.4	285.6	672.3	659.5	332.7	268.8	872.9	878.6	90.5	88.6	871.9	817.3	87.5	80.2	781.3	823.1	95.4	90.9
73	945.4	296.8	691.3	660.3	341.5	272.6	876.2	878.7	91.2	89.6	876.8	821.1	88.4	81.3	783.1	822.3	96.4	91.6
74	947.0	307.3	709.6	662.6	350.7	275.9	878.3	876.9	91.9	90.5	871.8	824.6	89.3	82.1	784.7	822.4	97.4	92.6
75	948.6	317.3	719.4	680.8	361.6	279.7	880.2	876.0	92.5	91.2	871.8	829.9	90.2	82.8	784.7	822.4	98.5	93.7
76	950.3	327.1	722.6	692.4	372.9	286.2	883.0	876.1	93.1	92.0	873.8	834.5	91.0	83.5	783.2	822.4	99.4	94.9
77	952.0	336.1	723.9	697.7	385.0	294.4	887.8	876.4	93.7	92.7	876.8	839.6	91.9	84.2	782.0	821.3	100.3	96.1
78	954.6	343.9	724.8	703.8	398.1	303.0	916.6	901.3	94.3	93.4	880.4	843.2	92.7	85.0	781.3	820.7	101.2	97.4
79	955.3	352.4	725.7	709.3	413.7	312.8	921.4	907.7	94.8	94.1	883.9	846.5	93.6	85.8	778.9	820.3	102.2	98.8
80	957.5	361.2	729.6	710.4	432.3	323.8	924.6	911.1	95.5	94.8	888.0	848.5	94.5	86.8	776.3	819.5	103.1	100.0
81	959.4	370.6	732.8	710.8	463.1	335.3	926.8	914.2	96.1	95.5	892.1	850.2	95.5	87.7	775.1	818.2	104.1	101.4
82	960.4	380.6	731.9	710.6	471.7	346.4	928.7	917.3	96.8	96.2	895.3	851.9	96.5	88.8	774.6	816.7	105.0	102.8
83	962.2	391.5	728.7	709.3	490.4	357.5	930.5	919.3	97.5	97.0	899.3	853.5	97.6	89.9	773.6	815.0	106.1	104.1
84	964.2	402.6	726.1	708.8	516.9	369.3	931.7	921.1	98.1	97.8	901.0	854.6	98.8	91.1	772.7	813.1	107.1	105.4
85	965.5	412.5	722.2	711.0	544.9	381.7	933.5	923.2	98.9	98.6	902.4	855.7	100.0	92.1	771.9	811.7	108.3	106.7
86	966.7	420.6	720.4	711.6	566.6	394.4	934.5	925.6	99.7	99.6	903.6	856.4	101.3	93.2	771.0	810.0	109.6	108.9
87	968.4	428.2	718.8	712.0	585.7	406.5	936.1	926.8	100.6	100.5	904.3	856.5	102.5	94.2	770.5	809.4	110.9	110.1
88	968.9	436.1	718.2	713.0	601.9	417.7	937.3	928.3	101.5	101.5	904.8	856.2	103.9	95.1	770.8	807.9	112.4	111.5
89	971.0	444.5	719.3	715.7	622.8	429.9	938.7	930.0	102.5	102.5	905.7	855.5	105.2	96.0	770.4	805.4	113.9	111.8
90	972.5	452.5	719.9	716.9	638.8	441.5	938.4	930.5	103.5	103.5	905.8	854.9	106.6	96.8	770.0	803.8	115.7	113.5
91	973.9	460.4	719.6	718.0	646.1	452.0	939.6	932.4	104.7	104.5	906.0	854.2	108.6	97.5	769.0	802.5	117.7	115.9
92	975.0	468.2	719.0	720.4	647.8	462.1	939.9	932.0	105.9	105.5	905.6	853.7	111.8	98.2	768.3	802.2	120.0	119.8
93	976.2	476.0	719.1	722.6	654.4	471.6	940.6	934.7	107.2	106.5	905.0	853.6	116.2	98.9	767.5	801.2	122.4	124.3
94	977.1	484.2	720.2	725.0	661.8	480.4	941.1	935.8	108.7	107.5	904.7	853.6	123.1	99.6	766.8	799.8	125.2	131.2
95	978.0	492.8	720.4	726.7	668.6	489.8	941.5	937.6	110.1	108.4	904.3	853.6	134.2	100.2	766.0	797.7	128.7	142.6
96	979.8	501.7	719.5	727.3	675.3	500.5	943.2	939.7	111.6	109.5	904.6	853.1	152.0	100.8	765.9	795.5	132.8	156.6
97	981.3	510.8	719.8	726.3	679.6	511.9	943.8	941.9	113.4	110.6	904.9	852.4	172.7	101.4	765.5	794.6	137.1	176.6
98	982.8	519.7	720.5	725.1	686.8	524.2	945.3	943.9	115.9	112.0	904.8	851.6	190.4	102.2	765.4	794.0	141.5	189.5
99	984.2	528.2	720.2	723.8	689.2	537.7	946.1	945.3	119.3	113.5	903.6	850.9	202.7	103.6	765.7	794.6	145.6	199.5
100	985.5	536.3	719.5	721.5	689.3	553.1	946.5	946.2	123.6	115.3	902.0	850.1	213.6	106.1	766.1	794.5	149.5	212.2
101	986.2	544.2	719.1	718.8	690.4	568.4	946.8	945.7	128.3	117.2	900.0	849.0	225.5	110.2	766.4	793.8	153.5	224.7
102	988.9	552.3	718.5	719.4	691.4	583.0	947.1	944.7	135.0	119.3	897.9	847.9	237.7	114.1	766.3	793.3	158.1	238.2
103	988.9	560.7	719.3	716.7	695.8	595.7	945.5	941.9	142.3	121.4	895.1	846.8	247.7	122.3	766.0	793.3	163.3	246.0
104	989.9	568.9	718.4	716.8	693.8	609.3	943.7	939.9	149.7	123.4	893.5	846.0	256.5	133.3	765.4	793.0	169.0	254.9
105	990.8	576.6	719.2	715.7	699.5	623.9	942.1	937.9	157.5	127.8	892.0	845.7	264.3	151.8	764.4	794.8	174.8	264.0
106	992.2	584.4	720.5	714.2	701.5	638.5	939.5	937.0	166.1	134.2	891.1	846.4	272.3	171.0	763.3	797.5	180.6	272.9
107	993.0	592.6	720.7	713.6	703.3	653.6	936.0	939.2	174.0	141.7	892.2	847.4	280.6	187.4	761.8	800.3	186.6	281.3
108	993.7	600.5	721.8	712.9	705.6	664.0	931.9	941.9	182.3	149.6	894.4	846.8	289.3	199.1	760.8	804.2	192.7	289.5
109	995.4	608.0	721.7	711.5	703.9	666.2	930.1	945.3	192.0	158.5	901.7	846.0	298.5	208.9	760.9	806.9	198.8	297.6
110	996.5	614.0	723.1	709.7	703.8	670.2	929.8	948.0	202.9	167.9	909.1	845.4	307.3	220.6	760.9	809.3	204.6	306.2
111	997.6	619.4	724.0	708.5	703.9	673.3	931.8	951.8	213.8	178.2	914.1	845.0	315.2	232.8	760.9	809.9	210.1	314.5
112	998.3	624.3	724.1	707.5	703.2	676.3	934.3	953.6	224.2	189.4	916.2	845.1	322.9	243.4	761.3	811.9	215.4	322.4
113	998.9	626.4	724.1	706.4	702.8	678.2	941.3	954.3	233.8	201.9	918.9	845.5	330.5	251.9	761.8	814.1	220.4	329.3
114	998.6	631.9	724.0															

Table 20. Average Temperatures Measured in Assembly S-25, Steel Stud, 2x2 Gypsum Board Layers, Glass Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/FL (Exp.) Av(26,27,30,31,34,35)	BL/SStd. (Exp.) Av(12,13,16,18)	BL/Cav. (Exp.) Av(22,23)	Mid. SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(12,3,4,5)
0	29.2	24.0	24.3	24.2	24.4	24.4	24.5	24.4	24.6
1	115.5	24.4	24.3	24.2	24.4	24.4	24.5	24.4	24.6
2	224.7	31.0	24.4	24.2	24.4	24.4	24.5	24.4	24.6
3	328.2	49.8	24.9	24.6	24.5	24.4	24.6	24.4	24.6
4	428.0	73.5	30.0	26.2	24.8	24.5	24.6	24.4	24.6
5	529.8	85.6	49.8	30.1	26.5	24.5	24.8	24.4	24.6
6	627.5	89.3	62.7	39.0	32.1	24.7	25.8	24.5	24.6
7	601.7	92.6	72.5	54.2	41.0	25.2	28.1	24.6	24.6
8	632.9	96.3	81.3	69.0	53.7	26.8	33.1	24.8	24.7
9	663.8	100.1	86.9	79.6	66.9	31.8	42.0	25.4	24.7
10	699.2	103.5	90.3	86.1	77.1	41.1	54.1	26.7	24.8
11	712.0	106.5	92.4	88.8	82.3	52.4	63.0	28.7	25.0
12	721.3	110.2	93.7	91.6	85.4	61.6	70.1	31.5	26.3
13	732.5	116.5	95.1	92.3	87.7	67.4	75.9	34.7	25.8
14	742.2	126.9	97.5	92.6	89.2	70.8	79.6	37.9	26.6
15	754.6	153.3	99.8	92.3	89.3	72.1	81.2	41.2	27.7
16	761.3	187.8	104.1	91.7	88.5	72.3	81.4	44.1	28.9
17	768.4	213.7	106.4	93.3	87.3	71.8	79.9	46.6	30.3
18	775.5	235.8	115.3	94.4	88.5	72.6	80.0	48.6	31.8
19	782.6	255.6	122.9	95.2	90.1	74.0	81.4	50.6	33.3
20	789.8	274.4	129.4	96.5	91.2	75.3	82.4	52.5	34.8
21	794.0	290.6	133.8	100.7	92.2	76.3	83.1	54.3	36.4
22	800.1	305.5	136.4	106.1	93.4	77.0	83.6	56.1	38.0
23	805.0	319.5	138.3	110.7	95.0	77.5	84.0	57.6	39.6
24	811.5	332.8	141.1	114.8	96.5	77.9	84.3	59.0	41.1
25	815.6	346.0	145.8	118.3	98.1	78.5	84.7	60.2	42.7
26	821.5	358.2	150.8	121.0	100.1	79.0	85.3	61.4	44.2
27	825.5	370.7	156.9	123.4	102.0	79.7	86.0	62.5	45.8
28	829.6	383.0	163.3	125.9	103.7	80.3	86.6	63.6	47.2
29	834.0	395.7	169.9	127.7	105.6	80.8	87.2	64.6	48.6
30	836.6	409.1	176.0	130.3	107.6	81.3	87.8	65.5	50.0
31	841.5	422.7	181.2	132.9	109.9	81.6	88.0	66.4	51.2
32	844.3	437.7	185.2	135.8	112.2	81.8	88.5	67.2	52.5
33	849.0	451.5	189.7	139.8	114.4	82.0	88.8	67.8	53.6
34	853.2	465.1	195.5	147.1	117.0	82.0	89.4	68.4	54.7
35	857.0	478.0	202.6	156.1	119.8	82.0	89.9	68.9	55.7
36	860.5	490.9	211.0	166.7	122.7	81.9	90.3	69.3	56.6
37	863.4	503.8	222.2	178.8	126.3	81.8	91.0	69.6	57.4
38	865.6	516.6	238.6	193.0	130.5	81.5	92.0	69.7	58.1
39	870.0	529.8	252.9	210.3	136.3	80.9	93.2	69.8	58.8
40	872.9	543.1	267.0	229.1	142.8	79.8	96.0	69.7	59.1
41	875.3	556.5	279.1	252.7	150.8	78.5	97.7	69.4	59.5
42	879.0	569.7	293.3	278.6	160.1	78.0	100.0	69.1	59.8
43	881.2	582.9	310.4	306.6	171.4	78.7	103.1	68.6	59.9
44	884.1	596.0	330.3	335.7	185.5	81.8	107.6	68.3	60.0
45	887.4	610.0	349.9	360.9	198.5	88.2	112.6	68.1	59.8
46	889.3	623.8	363.8	386.4	210.7	97.9	117.6	68.1	59.9
47	892.9	636.4	377.7	410.2	222.5	108.3	122.6	68.0	59.9
48	895.1	648.4	393.2	430.3	233.9	121.1	127.9	68.1	59.9
49	897.1	660.3	407.8	448.2	245.0	132.7	139.6	68.3	60.0
50	900.2	671.4	422.2	464.6	256.2	143.7	139.3	68.6	60.0
51	901.7	682.4	435.8	479.7	267.1	154.0	145.2	69.1	60.2
52	904.6	692.8	448.9	493.1	277.4	163.1	151.3	69.7	60.4
53	907.4	703.3	461.4	505.1	287.2	171.3	157.3	70.5	60.6
54	909.3	713.2	472.7	516.3	296.8	179.0	163.5	71.4	60.8
55	910.6	722.6	482.9	527.2	306.0	186.6	169.7	72.3	61.3
56	912.9	731.4	492.6	536.9	315.1	194.3	175.7	73.2	61.7
57	915.8	739.8	500.9	546.4	323.7	202.0	181.8	74.2	62.2

Table 20. Average Temperatures Measured in Assembly S-25, Steel Stud, 2x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Av) (°C)	BL/FL (Exp.) Av(28,27,30,31,34,35)	BL/SStd. (Exp.) Av(12,13,16,18)	BL/Cav. (Exp.) Av(22,23)	Mid. SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(26,29,32,34,36,37)	UnExp. Av(1,2,3,4,5)
58	917.8	748.1	511.0	555.4	332.0	210.5	188.0	75.1	62.7
59	918.9	757.7	523.3	564.3	340.3	218.7	194.4	76.1	63.2
60	923.2	766.5	535.9	572.4	348.6	226.4	200.5	76.8	63.9
61	924.4	776.6	550.9	580.5	356.7	233.8	206.5	77.6	64.4
62	925.3	787.2	567.4	588.7	364.9	240.9	212.4	78.2	65.0
63	928.2	794.7	580.9	596.3	373.0	248.0	218.2	78.9	65.4
64	930.0	801.1	590.1	603.9	381.2	254.9	223.9	79.7	66.0
65	931.5	806.8	598.4	611.7	389.3	261.4	229.6	80.4	66.4
66	933.8	811.1	606.4	619.1	397.1	267.5	235.1	81.3	66.7
67	935.4	816.2	612.9	627.1	405.2	273.3	240.7	82.5	67.0
68	937.5	820.8	618.4	634.9	413.4	279.0	246.4	83.8	67.4
69	939.2	826.3	624.7	642.6	422.1	284.4	252.3	85.2	67.9
70	941.6	832.6	631.3	649.2	431.4	289.7	258.3	86.5	68.4
71	942.0	836.8	637.9	656.6	441.4	295.0	264.4	87.8	68.9
72	943.4	840.9	643.6	665.9	451.4	300.8	270.6	88.9	69.5
73	945.4	843.0	648.9	675.8	461.6	307.1	276.9	89.8	70.0
74	947.0	843.1	654.9	686.1	470.0	313.3	283.2	90.6	70.6
75	948.6	844.0	660.3	700.1	476.0	320.6	289.4	91.5	71.1
76	950.3	845.5	666.0	707.5	481.0	329.5	295.6	92.3	71.7
77	952.0	847.3	672.4	710.8	486.1	339.7	301.7	93.2	72.3
78	954.6	857.2	676.8	714.3	490.9	350.6	307.4	94.0	72.7
79	955.3	859.8	680.5	717.5	495.1	363.2	313.3	94.9	73.3
80	957.5	861.3	684.6	720.0	499.7	378.1	319.6	95.8	73.7
81	959.4	862.8	688.4	721.8	505.0	394.2	326.1	96.7	74.1
82	960.4	864.1	692.1	721.2	510.9	409.0	333.1	97.7	74.6
83	962.2	865.0	695.5	719.0	516.8	424.0	340.5	98.7	75.0
84	964.2	865.7	697.8	717.4	522.2	443.1	347.8	99.7	75.3
85	966.6	866.4	701.1	716.6	527.9	463.3	354.8	100.8	75.6
86	968.7	866.9	703.9	716.0	533.7	480.5	361.6	102.0	75.9
87	969.4	867.3	706.4	715.4	539.1	496.1	368.7	103.1	76.2
88	970.0	867.6	708.9	715.6	544.9	509.8	376.0	104.3	76.6
89	971.0	867.6	711.1	717.5	551.2	526.4	383.7	105.3	77.0
90	972.5	867.2	712.6	718.4	556.4	540.1	391.3	106.6	77.5
91	973.9	867.3	714.1	718.8	561.3	549.0	399.1	108.2	78.1
92	975.0	867.1	715.7	719.7	566.2	555.0	406.8	110.2	78.7
93	976.2	867.1	717.1	720.8	571.1	563.0	413.9	112.6	79.4
94	977.1	867.0	718.6	722.6	575.8	571.1	421.4	115.9	80.2
95	979.0	866.8	719.8	723.6	580.5	579.2	429.5	120.7	80.9
96	979.8	867.0	721.1	723.4	585.4	587.9	437.8	127.2	81.7
97	981.3	867.2	722.0	723.9	590.1	595.7	445.5	135.3	82.6
98	982.8	867.5	723.5	722.8	594.9	605.5	455.7	141.8	83.7
99	984.2	867.7	725.2	722.0	600.2	613.5	465.4	147.4	84.8
100	985.5	867.6	726.9	720.5	605.2	621.2	475.0	153.4	86.0
101	988.2	867.0	728.5	719.4	609.9	629.4	484.1	159.9	87.3
102	988.9	866.2	730.0	718.2	614.7	637.2	493.4	166.7	88.5
103	988.9	864.8	731.4	718.0	619.7	645.7	502.3	173.8	88.7
104	989.9	863.6	732.7	717.6	624.8	651.5	510.3	181.1	89.9
105	990.8	862.8	734.2	717.4	629.8	661.7	517.7	190.0	92.2
106	992.2	862.5	734.8	717.4	634.4	670.0	525.0	199.5	93.4
107	993.0	862.8	735.1	717.2	639.2	678.5	532.4	208.6	94.6
108	993.7	863.3	735.6	717.4	645.3	684.8	540.1	217.1	96.1
109	995.4	865.2	735.9	716.6	651.3	685.1	548.4	225.7	97.4
110	996.5	866.9	735.5	716.4	656.1	687.0	556.4	234.9	98.8
111	997.6	868.9	735.1	716.3	659.9	688.6	564.1	244.1	100.3
112	998.3	870.4	734.7	716.8	663.1	689.8	570.9	252.9	101.8
113	998.9	872.7	732.3	715.3	665.4	690.5	576.7	261.3	103.2
114	999.6	876.1	732.0	715.0	666.9	691.7	581.7	269.4	104.5
115	1000.3	877.8	731.2	714.5	667.8	691.1	586.2	277.1	105.6

Table 20. Average Temperatures Measured in Assembly S-25, Steel Stud, 2x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/FL (Exp.) Av(26,27,30,31,34,35)	BL/SStd. (Exp.) Av(12,13,15,19)	BL/Cav. (Exp.) Av(22,23)	Mid. SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(24,29,32,33,38,37)	UnExp. Av(1,2,3,4,5)
116	1001.6	880.1	730.1	714.3	688.4	690.9	590.7	284.8	106.6
117	1002.0	882.2	729.4	713.9	689.3	690.9	595.1	292.1	107.6
118	1003.2	883.5	728.9	713.7	689.9	690.7	598.3	299.5	108.5
119	1003.8	884.5	728.5	713.4	670.6	690.3	600.8	306.9	109.3
120	1004.8	885.2	728.1	713.2	670.6	690.4	604.1	314.2	110.1
121	1005.8	886.5	727.7	712.9	670.8	690.2	607.5	321.3	110.9
122	1005.8	888.3	727.7	713.2	671.3	691.3	611.0	328.0	111.5
123	1006.5	889.4	727.8	713.5	671.7	691.3	614.0	334.7	112.0
124	1007.3	891.2	727.8	713.7	671.6	691.9	616.4	341.0	112.6
125	1006.8	891.9	727.8	714.1	671.3	692.8	617.9	347.4	113.1
126	1008.0	893.0	727.7	714.2	670.7	692.7	619.1	353.4	113.9
127	1008.9	894.4	728.0	714.5	671.4	693.2	620.9	359.5	114.9
128	1010.5	895.2	728.0	714.3	671.3	691.4	621.8	365.4	116.3
129	1010.5	895.9	728.2	714.5	671.9	691.3	622.8	371.3	117.2
130	1011.1	896.2	728.7	714.7	672.4	691.5	624.6	377.2	118.1
131	1013.3	897.9	729.2	715.5	673.4	691.9	626.8	383.7	119.3
132	1013.3	899.0	730.3	716.2	673.6	694.1	628.3	389.8	121.1
133	1013.3	899.5	731.2	716.7	674.3	692.5	630.0	395.4	124.4
134	1015.2	901.2	731.8	717.3	674.6	693.4	631.5	400.0	128.1
135	1015.8	902.2	732.6	717.9	674.6	693.4	632.4	405.1	132.3
136	1014.9	902.5	733.6	718.7	675.1	694.2	633.9	410.5	137.7
137	1015.0	904.1	734.3	719.7	676.0	695.7	635.8	416.3	144.7
138	1017.0	904.9	735.0	720.7	677.3	697.0	637.5	422.3	154.5
139	1017.5	905.7	736.2	721.8	678.7	699.5	639.6	428.4	164.6
140	1019.3	907.0	737.4	722.7	679.3	699.3	641.4	434.6	174.5

Table 21. Temperatures Measured in Assembly S-26, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	49.9	25.7	26.7	26.2	25.8	26.4	24.6	24.5	24.2	24.5	***	***	41.6	38.2	32.4	30.7	***	***	40.8	37.8	31.9
1	109.5	25.7	26.7	26.2	25.8	26.4	24.6	24.5	24.2	24.5	***	***	41.8	38.6	32.4	30.7	***	***	41.2	38.2	31.9
2	224.8	25.7	26.7	26.2	25.8	26.4	24.7	24.6	24.4	24.6	***	***	46.3	41.4	32.4	30.7	***	***	48.5	42.8	31.9
3	326.8	25.7	26.7	26.2	25.8	26.4	24.6	24.4	24.2	24.4	***	***	73.4	57.3	32.5	30.8	***	***	71.4	59.7	32.1
4	429.5	25.7	26.7	26.2	25.8	26.4	24.6	24.5	24.4	24.5	***	***	98.3	87.9	33.4	31.5	***	***	90.3	83.7	33.5
5	533.2	25.7	26.7	26.2	25.9	26.4	24.5	24.5	24.4	24.5	***	***	98.1	98.5	37.3	38.1	***	***	93.5	95.0	38.6
6	571.1	25.7	26.7	26.2	25.9	26.4	24.6	24.5	24.4	24.5	***	***	98.1	98.4	49.6	63.6	***	***	94.8	95.5	49.4
7	602.1	25.8	26.9	26.2	25.9	26.5	24.6	24.5	24.3	24.8	***	***	98.6	98.1	63.3	76.8	***	***	96.2	95.4	59.4
8	632.8	25.9	27.1	26.3	26.0	26.6	24.7	24.6	24.4	24.6	***	***	100.0	98.8	68.1	80.8	***	***	98.8	95.6	65.4
9	664.1	26.1	27.6	26.4	26.3	26.8	24.9	24.6	24.9	24.9	***	***	102.0	101.4	69.4	84.5	***	***	103.6	96.7	69.8
10	698.2	26.6	28.6	26.7	26.9	27.2	25.1	25.1	24.8	25.1	***	***	104.9	107.0	70.9	85.2	***	***	110.1	100.3	73.4
11	712.6	27.2	29.8	27.1	27.8	27.7	25.5	25.4	25.1	25.6	***	***	113.5	114.6	72.4	86.3	***	***	114.4	112.7	76.1
12	721.4	28.1	31.3	27.6	29.0	28.5	26.1	25.9	26.6	26.0	***	***	124.5	122.5	73.6	86.4	***	***	120.3	118.6	77.9
13	731.8	29.1	33.1	28.3	30.5	29.4	26.2	26.3	26.0	26.3	***	***	138.0	130.3	74.7	86.2	***	***	130.9	123.6	78.6
14	743.9	30.3	35.0	29.2	32.2	30.5	27.0	27.3	26.8	27.1	***	***	161.4	143.6	75.4	87.2	***	***	161.7	132.5	77.8
15	753.9	31.8	37.0	30.3	34.2	31.7	27.8	28.2	27.7	28.1	***	***	193.7	167.0	74.5	86.9	***	***	212.0	160.7	77.3
16	762.6	33.2	38.8	31.5	36.2	32.9	28.3	28.7	27.8	29.3	***	***	235.4	197.0	74.6	82.1	***	***	265.1	224.5	77.4
17	767.7	34.6	40.5	32.7	38.2	34.1	29.4	30.0	29.4	29.4	***	***	284.2	231.4	74.8	81.6	***	***	309.3	279.1	78.6
18	775.4	36.0	42.0	33.9	40.1	35.3	28.9	29.2	28.4	28.9	***	***	334.2	271.1	76.0	81.9	***	***	353.2	323.5	80.8
19	782.4	37.2	43.2	35.1	41.7	36.4	30.9	31.5	30.6	30.6	***	***	388.4	314.4	77.8	81.3	***	***	397.2	361.0	82.6
20	789.4	38.3	44.2	36.2	43.3	37.5	30.4	30.8	30.0	30.3	***	***	440.3	359.6	80.1	79.9	***	***	431.6	397.7	85.6
21	794.7	39.3	45.1	37.3	44.5	38.5	30.9	31.4	30.1	31.2	***	***	470.7	400.7	84.5	83.1	***	***	462.9	428.6	92.2
22	799.7	40.1	45.8	38.2	45.5	39.3	31.5	32.1	31.2	31.6	***	***	497.0	429.2	90.7	91.7	***	***	491.7	459.7	101.7
23	806.0	40.9	46.4	39.0	46.4	40.1	32.0	32.6	30.3	31.8	***	***	522.9	456.4	98.4	103.3	***	***	515.5	487.7	111.7
24	810.6	41.7	46.9	39.7	47.1	40.7	31.4	31.7	29.7	30.7	***	***	544.9	481.4	109.9	113.7	***	***	536.6	509.4	122.6
25	815.5	42.5	47.4	40.4	47.6	41.3	32.7	33.1	30.9	32.9	***	***	574.9	504.3	121.1	124.0	***	***	557.0	528.8	133.4
26	821.4	43.6	48.2	41.1	48.2	42.0	34.0	33.2	31.1	32.4	***	***	601.9	528.7	132.5	134.9	***	***	577.8	548.2	143.8
27	824.7	45.1	49.0	41.9	48.6	42.6	34.7	34.7	32.6	33.8	***	***	647.9	564.8	143.8	146.5	***	***	597.5	565.8	153.7
28	829.6	46.9	50.2	42.8	49.2	43.4	34.0	34.2	31.9	32.9	***	***	687.3	606.3	154.3	158.5	***	***	613.9	581.6	163.1
29	833.3	49.0	51.4	43.9	49.8	44.3	36.0	35.9	32.3	33.7	***	***	715.9	646.0	164.0	169.9	***	***	628.4	597.2	171.9
30	837.2	51.2	52.8	45.1	50.4	45.3	35.9	35.0	31.4	31.9	***	***	729.1	685.3	174.6	181.7	***	***	641.7	610.9	180.0
31	842.5	53.1	54.1	46.4	51.1	46.3	35.1	34.1	32.1	32.1	***	***	738.7	698.7	186.0	194.5	***	***	654.0	623.6	188.1
32	845.3	55.0	55.7	47.9	51.9	47.5	36.4	35.7	31.9	33.2	***	***	745.1	706.3	197.8	207.1	***	***	664.9	635.6	196.4
33	849.9	56.6	57.3	49.5	52.9	48.7	36.7	35.4	31.8	32.6	***	***	744.2	717.8	209.6	220.1	***	***	674.6	647.2	204.9
34	853.0	58.2	58.9	51.2	54.0	50.2	40.0	38.1	34.4	35.8	***	***	746.6	730.5	222.1	233.9	***	***	682.5	655.9	213.7
35	856.8	59.8	60.7	52.9	55.2	51.8	39.7	37.6	33.1	33.7	***	***	752.6	742.8	236.1	247.9	***	***	690.0	663.7	222.5
36	860.0	61.2	62.3	54.6	56.5	53.4	39.7	37.8	32.8	34.3	***	***	758.0	752.4	250.7	261.8	***	***	697.0	670.5	230.7
37	863.0	62.6	63.8	56.2	57.8	55.0	41.7	40.4	35.0	36.4	***	***	763.9	757.2	265.9	275.7	***	***	703.8	674.9	238.5
38	867.0	63.9	65.3	57.9	59.1	56.8	44.1	42.6	37.7	38.7	***	***	770.9	757.0	282.5	280.0	***	***	709.5	680.2	246.6
39	869.7	65.2	66.7	59.6	60.3	58.7	45.4	43.0	36.8	38.6	***	***	776.0	760.1	300.0	304.1	***	***	715.4	685.2	255.4
40	873.0	66.3	67.8	61.2	61.3	60.5	45.3	44.6	39.9	39.6	***	***	779.6	760.6	317.0	316.9	***	***	720.6	689.0	264.3
41	875.7	67.3	68.9	62.8	62.3	62.3	45.4	43.4	38.2	40.3	***	***	781.4	762.0	331.8	328.6	***	***	725.6	693.0	273.4
42	878.6	68.2	69.8	64.3	63.3	64.0	46.3	43.7	39.1	41.8	***	***	792.1	763.2	344.6	339.7	***	***	730.7	698.0	282.7
43	881.2	69.0	70.7	65.6	64.3	65.6	46.7	46.0	41.1	41.5	***	***	789.0	764.2	355.5	350.6	***	***	735.5	702.9	292.1
44	883.5	69.7	71.4	66.9	65.3	67.0	47.8	47.0	41.3	42.3	***	***	784.2	764.7	364.9	360.0	***	***	739.6	707.7	301.2
45	886.7	70.2	72.0	68.1	66.2	68.1	47.5	47.0	42.5	42.5	***	***	785.9	766.2	373.0	366.8	***	***	741.9	711.1	310.9
46	889.7	70.7	72.5	69.1	67.0	69.1	47.5	47.1	42.4	43.9	***	***	787.3	768.4	380.3	370.5	***	***	742.3	714.2	321.9
47	892.1	71.0	72.9	69.8	67.7	69.7	48.0	47.1	41.0	44.9	***	***	788.4	770.3	387.2	373.5	***	***	742.0	717.4	332.1
48	894.8	71.2	73.4	70.5	68.2	70.4	46.2	46.7	39.8	42.4	***	***	789.9	772.1	391.7	376.1	***	***	740.7	716.2	339.2
49	897.2	71.4	74.0	70.8	68.6	70.9	47.2	47.2	40.3	43.0	***	***	791.6	773.7	393.9	382.5	***	***	739.2	717.5	344.5
50	899.6	71.6	74.8	71.3	69.0	71.4	48.1	47.8	41.1	44.2	***	***	794.0	775.4	394.6	389.4	***	***	738.0	719.3	343.5
51	902.2	71.7	75.6	71.8	69.5	71.8	48.2	48.2	43.7	45.8	***	***	797.1	777.3	396.6	392.4	***	***	736.9	719.1	328.7
52	904.7	71.9	76.5	72.2	69.8	72.2	47.4	46.5	39.9	43.0	***	***	801.6	779.0	400.8	391.3	***	***	735.0	716.7	301.3
53	906.9	72.0	77.4	72.7	70.1	72.4	48.0	47.3	43.2	43.6	***	***	804.6	780.9	405.2	398.3	***	***	734.0		

Table 21. Temperatures Measured in Assembly S-26, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	917.9	73.5	82.0	76.7	71.3	73.6	48.1	47.6	42.4	45.2	***	***	818.7	789.3	425.6	407.7	***	***	734.7	711.2	314.4
59	920.3	73.9	82.8	77.5	71.4	73.8	49.0	46.8	41.4	44.9	***	***	821.5	790.6	429.4	411.7	***	***	735.9	711.3	316.1
60	920.9	74.4	83.5	78.3	71.5	73.9	48.2	48.1	40.0	44.8	***	***	824.7	791.5	433.4	415.8	***	***	737.2	712.0	318.2
61	923.8	74.8	84.3	79.1	71.5	74.1	48.8	48.6	41.6	46.6	***	***	826.2	792.9	437.4	419.7	***	***	738.5	712.7	320.3
62	927.0	75.5	85.0	79.9	71.5	74.4	49.0	47.9	41.3	45.2	***	***	831.5	794.5	441.6	423.6	***	***	740.1	713.9	322.3
63	926.9	76.2	85.7	80.7	71.6	74.8	48.9	48.4	42.4	45.1	***	***	834.2	795.6	445.9	427.5	***	***	741.6	715.1	324.2
64	929.8	76.9	86.4	81.6	71.9	75.4	49.9	48.3	41.8	43.4	***	***	837.0	796.6	450.4	431.5	***	***	743.1	716.5	326.5
65	931.9	77.6	87.0	82.4	72.2	76.0	48.8	48.2	41.8	44.3	***	***	840.3	798.1	455.1	435.4	***	***	744.8	718.0	328.9
66	933.8	78.2	87.7	83.1	72.7	76.8	50.0	50.3	42.6	44.7	***	***	843.3	800.1	460.0	439.2	***	***	746.7	719.7	331.6
67	934.6	79.0	88.4	83.9	73.4	77.6	50.0	50.1	43.3	45.5	***	***	846.3	801.8	464.9	442.9	***	***	748.6	721.6	334.4
68	937.5	79.8	89.0	84.6	74.0	78.5	50.2	50.4	43.2	44.3	***	***	849.4	803.9	470.2	446.6	***	***	750.6	723.4	337.3
69	938.5	80.8	89.6	85.3	74.8	79.5	50.6	50.4	43.9	46.4	***	***	852.6	805.9	475.4	450.2	***	***	752.8	725.4	340.2
70	940.9	81.7	90.2	85.8	75.4	80.4	49.0	48.3	40.4	45.8	***	***	855.5	807.7	480.6	453.7	***	***	755.0	727.5	343.2
71	942.6	83.0	90.9	86.5	76.1	81.6	50.6	51.1	45.2	45.8	***	***	858.8	810.0	485.6	457.1	***	***	757.4	729.6	346.3
72	943.9	84.6	91.6	87.1	76.9	82.8	50.8	52.9	44.3	45.6	***	***	861.8	811.9	490.4	460.4	***	***	759.7	732.1	349.5
73	945.5	86.5	92.3	87.6	77.6	84.2	51.3	52.2	44.8	45.9	***	***	865.0	813.8	495.4	463.8	***	***	762.1	734.3	352.8
74	946.6	88.8	93.0	88.2	78.3	85.8	51.4	51.8	45.4	45.4	***	***	868.2	815.7	500.7	467.2	***	***	764.4	736.1	356.3
75	948.5	91.3	93.6	88.7	79.0	87.5	53.0	52.6	44.4	45.1	***	***	871.0	817.6	506.0	470.3	***	***	767.0	737.8	359.7
76	950.2	93.7	94.3	89.3	79.8	89.4	54.6	52.5	46.2	45.5	***	***	874.3	819.4	511.4	472.2	***	***	769.7	740.2	363.1
77	952.3	95.6	94.9	89.8	80.5	91.4	55.8	51.7	45.1	44.9	***	***	877.8	821.2	516.7	475.3	***	***	772.3	742.5	366.6
78	953.1	97.1	95.7	90.3	81.2	93.4	57.4	51.7	43.9	44.7	***	***	881.4	822.6	522.0	478.6	***	***	775.1	745.0	370.1
79	956.7	98.4	96.8	90.8	81.8	95.5	59.4	53.6	46.8	46.2	***	***	885.6	824.5	527.6	482.0	***	***	777.7	747.3	373.6
80	957.5	99.5	98.0	91.3	82.6	97.5	61.0	52.9	47.6	47.1	***	***	889.2	825.5	533.3	485.2	***	***	780.5	750.2	377.1
81	960.0	100.5	99.1	91.8	83.5	99.2	61.3	52.3	46.6	46.8	***	***	892.7	828.2	539.4	486.6	***	***	783.5	753.0	380.8
82	960.0	101.3	99.9	92.3	84.3	100.6	59.4	51.3	46.1	45.8	***	***	895.5	831.0	545.4	492.2	***	***	786.8	755.5	384.9
83	962.6	102.1	100.5	92.9	85.4	102.0	63.0	54.8	51.5	48.0	***	***	898.7	834.3	549.9	495.7	***	***	790.9	757.9	388.9
84	964.6	102.7	100.9	93.5	86.6	103.0	63.5	53.9	51.9	50.1	***	***	901.1	837.4	554.7	499.2	***	***	795.0	760.3	393.0
85	965.6	103.3	101.3	94.0	88.1	103.9	63.3	54.4	51.6	48.7	***	***	903.3	840.6	559.4	502.8	***	***	798.9	763.2	397.2
86	967.3	103.8	101.6	94.5	89.5	104.6	59.9	52.2	47.0	48.2	***	***	905.0	842.3	563.3	506.7	***	***	802.7	766.1	401.6
87	968.4	104.3	101.9	94.9	91.3	105.3	61.6	52.8	48.0	45.2	***	***	907.4	845.6	566.7	510.6	***	***	806.2	769.3	405.9
88	969.6	104.6	102.2	95.5	93.0	105.9	62.7	52.0	46.9	48.7	***	***	909.7	848.4	568.1	514.3	***	***	808.4	772.3	410.4
89	971.7	105.0	102.8	96.2	95.0	106.5	61.2	51.8	45.4	45.3	***	***	912.8	852.2	574.1	518.2	***	***	810.0	774.7	415.0
90	974.1	105.3	103.2	97.1	96.8	107.0	62.3	52.3	46.3	47.1	***	***	916.0	856.0	580.3	522.1	***	***	811.9	777.3	419.7
91	972.4	105.8	103.8	98.2	98.5	107.6	66.7	54.8	52.3	50.0	***	***	917.9	859.5	586.3	523.3	***	***	814.1	780.0	424.3
92	974.1	106.4	104.3	99.2	99.8	108.1	66.7	55.9	54.9	52.0	***	***	920.5	862.8	592.2	526.8	***	***	816.1	783.0	428.8
93	976.6	107.2	104.8	99.9	100.9	108.6	66.8	55.6	55.5	51.3	***	***	923.7	867.1	597.8	531.2	***	***	818.4	786.3	433.2
94	977.1	107.8	105.4	100.6	101.8	109.1	67.4	55.7	55.3	52.1	***	***	926.8	872.4	602.9	531.3	***	***	821.0	789.2	437.7
95	976.7	108.6	105.9	101.0	102.5	109.6	68.0	56.6	53.9	54.6	***	***	934.5	903.9	607.8	536.5	***	***	823.9	792.2	442.0
96	981.4	109.3	106.5	101.5	103.1	110.2	69.6	58.5	57.0	54.0	***	***	940.9	919.5	613.0	544.0	***	***	828.1	797.2	446.2
97	981.2	110.0	107.1	101.8	103.7	110.7	64.5	55.0	50.3	47.8	***	***	943.0	925.3	618.9	553.6	***	***	832.1	801.2	449.5
98	982.2	110.5	107.7	102.0	104.3	111.4	69.8	58.2	53.7	56.3	***	***	944.3	930.4	625.8	562.8	***	***	835.5	804.6	453.2
99	984.3	111.1	108.1	102.4	104.8	112.1	70.5	58.4	52.5	54.5	***	***	946.0	936.3	631.5	570.9	***	***	839.9	807.4	457.4
100	985.5	111.8	108.6	102.8	105.5	113.0	72.6	60.1	53.6	55.1	***	***	945.3	938.1	636.2	578.2	***	***	842.0	809.5	461.5
101	986.6	112.5	109.1	103.2	106.0	113.9	72.2	60.0	53.9	56.0	***	***	945.9	941.2	641.0	584.7	***	***	845.4	811.6	465.6
102	987.3	113.5	109.6	103.8	106.6	114.8	72.6	61.4	56.3	54.6	***	***	946.5	943.8	646.0	590.6	***	***	848.6	813.8	469.6
103	989.0	114.7	110.1	104.2	107.2	115.7	72.4	61.8	56.4	55.1	***	***	948.1	948.0	650.9	596.2	***	***	851.6	815.8	473.4
104	990.8	116.3	110.7	104.7	107.7	116.5	73.5	62.8	59.5	57.1	***	***	949.7	951.0	665.4	601.7	***	***	855.0	818.4	477.3
105	991.3	119.0	111.3	105.2	108.3	117.3	75.1	63.3	61.5	57.5	***	***	950.8	953.7	660.1	607.1	***	***	857.8	821.2	481.2
106	992.8	123.5	112.0	105.6	108.8	118.1	76.9	63.6	60.8	58.4	***	***	952.4	958.7	664.5	612.9	***	***	860.7	824.8	485.0
107	993.5	128.7	112.6	106.0	109.4	119.2	76.8	62.6	58.4	58.1	***	***	953.2	959.1	669.0	616.9	***	***	869.4	828.3	488.9
108	994.6	134.0	113.4	106.4	109.9	121.0	77.0	64.8	61.9	58.2	***	***	954.4	960.8	673.5	624.6	***	***	866.4	831.5	492.8
109	995.4	145.0	114.2	106.8	110.4	124.7	78.1	66.7	63.5	59.4	***	***	955.1	962.5	678.3	629.3	***	***	869.2	834.6	496.9
110	996.5	153.3	115.3	107.1	110.9	130.6	79.2	66.2	62.5	59.7	***	***	956.8	965.2	683						

Table 21. Temperatures Measured in Assembly S-26, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
116	1001.5	249.2	133.5	109.7	116.8	185.0	90.5	67.8	67.7	63.6	***	***	960.9	959.1	710.1	657.5	***	***	888.9	854.1	528.5
117	1002.0	268.0	141.8	110.2	118.0	201.7	94.8	67.5	68.9	63.7	***	***	961.4	978.0	713.8	661.1	***	***	891.6	856.7	533.8

Table 21. Temperatures Measured in Assembly S-26, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																	
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	95	96	37	
0	49.9	30.9	45.8	41.4	31.3	30.2	***	***	27.3	26.6	***	***	26.0	25.5	***	***	27.1	26.5	
1	109.5	30.9	46.0	41.5	31.4	30.3	***	***	27.3	26.6	***	***	26.0	25.6	***	***	27.2	26.5	
2	224.8	30.9	53.3	42.3	31.5	30.3	***	***	27.3	26.7	***	***	26.0	25.5	***	***	27.1	26.5	
3	326.8	31.1	75.3	53.3	31.6	30.6	***	***	27.3	26.6	***	***	26.0	25.5	***	***	27.2	26.5	
4	429.5	32.6	90.0	77.4	33.2	32.5	***	***	27.3	26.7	***	***	26.0	25.5	***	***	27.2	26.5	
5	533.2	37.0	93.2	89.8	43.7	51.9	***	***	27.4	26.8	***	***	26.1	25.6	***	***	27.4	26.5	
6	571.1	44.6	97.9	92.5	58.3	74.4	***	***	27.8	27.3	***	***	26.7	26.1	***	***	28.6	26.8	
7	602.1	51.5	104.1	92.8	65.0	79.1	***	***	29.0	29.6	***	***	28.2	27.8	***	***	31.3	27.3	
8	632.6	56.9	110.0	93.8	68.3	80.4	***	***	30.8	34.1	***	***	30.5	31.0	***	***	34.7	28.3	
9	664.1	62.9	114.3	99.8	71.0	81.9	***	***	33.1	39.3	***	***	33.0	34.6	***	***	38.2	29.8	
10	698.2	68.3	116.8	104.5	73.4	83.1	***	***	35.5	44.1	***	***	35.7	38.2	***	***	41.9	31.5	
11	712.6	72.8	119.5	108.6	75.6	84.3	***	***	38.0	48.2	***	***	38.4	41.7	***	***	45.6	33.5	
12	721.4	75.9	125.3	112.0	77.1	84.7	***	***	40.4	51.8	***	***	41.2	45.0	***	***	48.8	35.7	
13	731.8	77.1	141.2	116.9	77.6	83.8	***	***	42.8	54.9	***	***	43.9	48.0	***	***	51.6	38.1	
14	743.9	75.1	195.3	130.0	75.9	82.9	***	***	44.9	57.5	***	***	46.2	50.6	***	***	53.6	40.5	
15	753.9	72.9	272.4	171.4	72.3	76.9	***	***	46.8	59.5	***	***	47.9	52.6	***	***	54.8	42.7	
16	762.6	75.4	350.0	250.0	72.2	74.5	***	***	48.1	61.0	***	***	48.8	53.5	***	***	55.5	44.1	
17	767.7	78.4	413.5	333.5	71.4	75.4	***	***	49.0	61.8	***	***	49.5	53.8	***	***	56.0	45.2	
18	775.4	82.0	457.7	390.2	70.6	72.6	***	***	49.8	61.9	***	***	50.0	54.1	***	***	56.3	46.3	
19	782.4	87.7	495.6	436.5	75.2	71.4	***	***	50.3	62.1	***	***	50.3	54.2	***	***	56.4	47.0	
20	789.4	95.8	529.8	479.4	86.8	77.8	***	***	50.8	62.3	***	***	50.4	54.1	***	***	56.4	47.5	
21	794.7	105.8	563.5	523.8	106.9	96.5	***	***	51.1	62.1	***	***	50.5	53.9	***	***	56.5	47.8	
22	799.7	115.9	597.4	567.3	133.9	124.8	***	***	51.4	61.9	***	***	50.8	53.7	***	***	56.8	48.1	
23	806.0	127.4	630.2	610.6	163.7	152.6	***	***	51.8	61.6	***	***	51.7	53.8	***	***	57.4	48.6	
24	810.6	139.5	665.9	659.3	195.5	179.7	***	***	52.3	61.4	***	***	53.2	54.2	***	***	58.5	49.2	
25	815.5	151.7	719.1	703.2	228.6	206.7	***	***	53.1	61.5	***	***	55.4	55.1	***	***	60.0	50.2	
26	821.4	163.7	774.5	718.9	261.1	232.5	***	***	54.3	61.8	***	***	56.3	56.5	***	***	62.0	51.5	
27	824.7	175.2	792.1	722.2	291.3	254.1	***	***	55.9	62.5	***	***	61.8	58.5	***	***	64.2	53.2	
28	829.6	186.2	812.2	727.7	317.3	271.9	***	***	57.7	63.5	***	***	65.4	61.0	***	***	66.5	55.3	
29	833.3	196.6	812.8	733.4	340.2	289.7	***	***	59.6	64.7	***	***	68.8	63.7	***	***	68.7	57.7	
30	837.2	206.7	807.2	735.9	359.7	305.3	***	***	61.6	66.2	***	***	71.9	66.3	***	***	71.0	60.1	
31	842.5	216.7	785.8	739.4	376.2	317.4	***	***	63.7	67.9	***	***	74.2	68.6	***	***	73.2	62.5	
32	845.3	225.7	776.6	741.9	385.7	327.4	***	***	65.8	69.8	***	***	76.8	70.6	***	***	75.3	64.8	
33	849.9	234.5	770.6	744.1	390.3	334.6	***	***	68.0	71.7	***	***	79.8	72.1	***	***	77.2	66.9	
34	853.0	243.9	766.8	745.4	387.7	339.7	***	***	70.2	73.4	***	***	82.5	73.7	***	***	78.9	66.9	
35	856.8	253.7	764.3	747.5	382.3	344.8	***	***	72.2	74.8	***	***	84.7	75.7	***	***	80.7	70.7	
36	860.0	264.1	762.8	749.4	380.1	350.3	***	***	74.0	75.8	***	***	86.4	77.8	***	***	82.8	72.4	
37	863.0	275.1	761.7	751.5	380.9	356.8	***	***	75.8	76.8	***	***	87.7	79.6	***	***	84.8	74.1	
38	867.0	286.1	761.3	759.7	382.9	362.9	***	***	78.2	77.9	***	***	88.8	81.3	***	***	86.7	75.8	
39	869.7	297.5	762.0	755.9	385.9	370.2	***	***	81.2	79.8	***	***	89.7	82.8	***	***	88.3	77.6	
40	873.0	309.2	763.0	757.9	389.4	377.0	***	***	83.9	82.0	***	***	90.6	84.2	***	***	89.8	79.2	
41	875.7	321.3	764.7	759.8	392.9	384.1	***	***	86.0	83.9	***	***	91.2	85.3	***	***	91.1	81.0	
42	878.6	333.6	766.4	761.4	396.3	390.1	***	***	87.8	85.4	***	***	91.8	86.2	***	***	92.3	83.2	
43	881.2	345.2	767.9	763.0	399.9	394.8	***	***	89.1	86.6	***	***	92.3	87.0	***	***	93.4	85.4	
44	883.5	356.7	769.2	764.8	403.8	398.1	***	***	90.2	87.8	***	***	92.8	87.8	***	***	94.4	87.3	
45	886.7	367.9	770.7	767.6	409.3	397.3	***	***	90.9	88.8	***	***	93.3	86.3	***	***	95.4	88.8	
46	889.7	374.6	772.1	771.0	415.4	392.9	***	***	91.6	89.7	***	***	93.6	88.9	***	***	96.5	90.0	
47	892.1	378.1	773.5	774.8	422.0	391.2	***	***	92.1	90.5	***	***	94.1	89.4	***	***	97.5	91.0	
48	894.8	379.8	775.0	778.3	427.9	394.1	***	***	92.6	91.3	***	***	94.6	89.8	***	***	98.5	91.8	
49	897.2	379.8	777.0	780.3	431.7	396.7	***	***	93.1	92.1	***	***	95.0	90.1	***	***	99.5	92.6	
50	899.6	372.0	779.7	782.4	431.9	399.1	***	***	93.6	92.9	***	***	95.5	90.5	***	***	100.5	93.3	
51	902.2	363.2	783.4	784.5	424.1	401.0	***	***	94.0	93.7	***	***	96.0	90.9	***	***	101.5	94.1	
52	904.7	347.6	789.5	786.5	409.9	402.0	***	***	94.4	94.4	***	***	96.5	91.3	***	***	102.5	94.9	
53	906.9	333.4	793.6	788.8	413.8	400.8	***	***	94.8	95.1	***	***	97.1	91.6	***	***	103.4	95.7	
54	908.7	335.9	796.2	791.7	418.1	398.1	***	***	95.2	95.7	***	***	97.7	91.9	***	***	104.3	96.8	
55	910.6	339.1	799.1	794.2	422.8	400.1	***	***	95.7	96.4	***	***	98.3	92.2	***	***	105.0	97.9	
56	912.7	341.8	802.2	796.2	428.1	402.1	***	***	96.9	97.0	***	***	99.0	92.6	***	***	105.8	99.0	
57	916.0	343.7	805.8	798.4	433.8	404.2	***	***	97.7	97.6	***	***	99.7	93.0	***	***	106.6	100.0	

Table 21. Temperatures Measured in Assembly S-26, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
58	917.9	345.3	809.9	800.4	439.7	406.5	***	***	98.4	98.2	***	***	100.5	93.3	***	***	107.3	101.0
59	920.3	347.0	814.4	802.7	445.9	408.7	***	***	99.1	98.8	***	***	101.3	93.7	***	***	107.9	101.9
60	920.9	348.9	818.9	805.1	452.9	411.9	***	***	99.9	99.5	***	***	102.3	94.8	***	***	108.6	102.7
61	923.8	351.1	824.3	808.3	460.2	415.1	***	***	100.6	100.1	***	***	103.6	95.5	***	***	109.3	103.5
62	927.0	353.5	830.0	811.9	467.4	418.9	***	***	101.4	100.7	***	***	105.1	96.1	***	***	109.9	104.2
63	926.9	356.3	834.9	814.9	474.6	423.8	***	***	102.3	101.4	***	***	107.2	96.7	***	***	110.5	104.8
64	929.8	359.3	839.6	818.7	481.4	429.7	***	***	103.3	102.1	***	***	109.7	97.4	***	***	111.2	105.4
65	931.9	362.5	844.6	822.8	487.7	436.4	***	***	104.4	102.8	***	***	112.9	98.2	***	***	111.9	106.0
66	933.8	365.4	849.9	827.2	493.3	443.5	***	***	105.6	103.5	***	***	116.5	99.0	***	***	112.7	106.6
67	934.6	368.5	854.7	831.3	498.8	450.5	***	***	106.8	104.2	***	***	120.5	99.9	***	***	113.5	107.1
68	937.5	371.8	860.2	835.8	503.9	456.7	***	***	108.4	104.9	***	***	125.9	100.9	***	***	114.4	107.6
69	938.5	375.0	865.1	840.0	509.5	462.1	***	***	110.4	105.8	***	***	131.4	102.2	***	***	115.4	108.0
70	940.9	378.3	870.7	844.7	515.7	467.5	***	***	113.2	106.5	***	***	137.4	103.8	***	***	116.4	108.5
71	942.6	381.5	876.5	849.2	521.9	472.5	***	***	116.8	107.6	***	***	144.7	106.0	***	***	117.5	108.9
72	943.9	384.7	881.7	851.3	528.3	477.0	***	***	121.2	108.9	***	***	153.1	108.6	***	***	118.5	109.4
73	945.5	388.0	887.2	855.3	535.9	480.9	***	***	126.8	110.4	***	***	161.0	111.5	***	***	119.5	109.8
74	946.6	391.6	891.2	856.7	544.4	485.6	***	***	133.9	112.1	***	***	168.0	115.2	***	***	120.4	110.3
75	948.6	394.8	897.3	858.9	552.0	491.4	***	***	140.6	113.9	***	***	174.2	119.9	***	***	121.4	110.8
76	950.2	398.1	902.2	862.7	559.7	497.4	***	***	149.5	116.0	***	***	179.3	125.0	***	***	122.9	111.3
77	952.3	401.5	904.3	865.8	566.9	503.3	***	***	159.2	118.7	***	***	184.4	130.1	***	***	125.8	111.9
78	953.1	404.9	907.1	869.2	574.1	509.4	***	***	168.0	122.2	***	***	188.0	122.2	***	***	122.2	111.9
79	956.7	408.4	911.5	872.8	580.8	515.4	***	***	175.3	126.3	***	***	197.3	143.8	***	***	135.3	113.3
80	957.5	411.8	915.0	876.8	587.8	521.1	***	***	182.0	131.4	***	***	205.0	152.4	***	***	139.2	114.1
81	960.0	415.2	919.2	880.5	594.2	527.1	***	***	189.8	137.1	***	***	212.8	160.4	***	***	142.3	114.9
82	960.6	418.8	922.3	884.5	600.8	533.2	***	***	197.9	142.8	***	***	220.7	166.9	***	***	145.2	115.8
83	962.6	422.3	926.4	890.6	606.9	538.1	***	***	206.8	148.8	***	***	228.4	171.9	***	***	148.4	116.8
84	964.6	425.7	930.1	894.2	612.9	549.8	***	***	215.7	155.3	***	***	235.3	176.2	***	***	152.2	117.7
85	965.5	429.0	933.7	896.9	618.8	549.2	***	***	224.2	162.0	***	***	242.3	180.9	***	***	157.2	118.6
86	967.3	432.5	937.6	900.3	624.5	554.5	***	***	232.0	167.8	***	***	249.7	186.1	***	***	164.0	119.3
87	968.4	435.8	939.7	902.4	630.1	559.5	***	***	239.6	172.9	***	***	257.3	191.8	***	***	172.5	119.9
88	969.8	439.5	942.2	905.4	635.9	564.3	***	***	247.1	178.0	***	***	265.5	197.9	***	***	181.0	120.6
89	971.7	443.4	944.4	909.3	641.5	569.4	***	***	254.9	183.4	***	***	274.2	204.6	***	***	189.0	121.8
90	974.1	447.3	946.9	911.5	647.4	574.3	***	***	262.8	189.1	***	***	282.7	211.3	***	***	196.3	124.4
91	972.4	450.2	946.4	913.0	653.3	579.0	***	***	270.8	195.3	***	***	291.3	217.2	***	***	202.8	129.3
92	974.1	456.8	949.4	915.4	659.1	583.1	***	***	279.7	202.0	***	***	299.8	222.6	***	***	209.2	134.4
93	976.6	503.3	951.6	918.2	664.7	586.7	***	***	286.9	209.0	***	***	308.2	228.0	***	***	215.7	138.7
94	977.1	536.8	951.9	919.9	670.6	590.5	***	***	295.5	216.3	***	***	316.7	233.6	***	***	222.6	142.0
95	976.7	566.5	968.6	946.4	676.5	595.3	***	***	304.0	223.3	***	***	324.9	239.5	***	***	229.5	144.7
96	981.4	579.2	972.7	958.0	683.8	605.3	***	***	312.1	229.7	***	***	332.7	245.4	***	***	236.4	147.6
97	981.2	733.8	970.4	960.7	690.0	616.1	***	***	319.5	236.1	***	***	340.1	251.1	***	***	243.4	150.9
98	982.2	783.0	971.3	963.7	694.7	624.2	***	***	326.8	243.0	***	***	347.0	257.1	***	***	250.2	155.5
99	984.3	804.2	972.9	966.4	698.6	630.6	***	***	333.7	250.6	***	***	353.3	264.2	***	***	257.0	161.6
100	985.5	817.6	971.2	965.7	702.4	636.2	***	***	339.8	258.4	***	***	359.4	273.3	***	***	263.6	168.7
101	986.6	814.6	973.1	967.6	705.4	640.6	***	***	345.6	266.3	***	***	365.4	283.3	***	***	270.3	177.0
102	987.3	811.7	974.1	966.7	708.7	644.8	***	***	350.8	273.9	***	***	371.2	292.8	***	***	277.1	184.9
103	989.0	815.7	977.2	972.2	712.1	649.0	***	***	356.1	281.2	***	***	377.0	302.9	***	***	283.9	192.8
104	990.8	791.1	979.9	974.0	715.7	653.2	***	***	361.3	288.3	***	***	382.9	313.7	***	***	290.9	199.7
105	991.3	784.1	980.4	975.3	720.0	657.8	***	***	366.2	295.1	***	***	389.2	322.7	***	***	298.1	205.9
106	992.8	771.1	982.1	977.3	723.3	661.9	***	***	371.1	302.0	***	***	395.3	330.8	***	***	305.5	211.9
107	993.5	761.7	983.3	978.8	726.8	665.9	***	***	376.1	309.0	***	***	401.1	338.2	***	***	313.0	217.6
108	994.6	764.6	984.1	979.5	730.5	669.9	***	***	381.2	315.9	***	***	406.6	344.7	***	***	321.1	223.1
109	995.4	787.1	985.8	981.1	734.4	673.8	***	***	386.0	322.3	***	***	411.8	349.9	***	***	329.6	228.7
110	996.5	803.1	987.4	982.6	738.1	677.6	***	***	391.4	328.3	***	***	417.5	355.7	***	***	338.1	234.4
111	997.6	805.6	989.4	984.5	741.9	681.3	***	***	397.2	334.2	***	***	423.6	361.9	***	***	346.8	240.1
112	997.5	814.3	989.0	983.7	745.9	684.9	***	***	403.4	339.9	***	***	430.1	368.0	***	***	355.5	245.9
113	999.1	835.1	992.6	986.6	749.4	687.4	***	***	409.7	345.5	***	***	436.5	374.4	***	***	364.4	251.8
114	999.2	834.1	993.3	986.4	753.7	690.2	***	***	416.1	351.0	***	***	442.9	380.7	***	***	373.4	257.8
115	1000.6	829.7	994.6	987.0	758.2	693.1	***	***	423.2	356.7	***	***	449.5	387.5	***	***	382.0	264.0

Table 21. Temperatures Measured in Assembly S-26, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
116	1001.5	824.7	997.0	988.2	762.1	696.0	***	***	430.5	362.2	***	***	456.1	393.4	***	***	389.7	270.3
117	1002.0	815.6	997.5	988.4	766.2	698.8	***	***	439.5	367.7	***	***	463.0	399.1	***	***	396.9	276.6

Table 22. Average Temperatures Measured in Assembly S-26, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,18,19)	Mid SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
0	49.9	43.6	39.6	***	30.8	31.5	26.5	26.2
1	109.5	43.7	39.9	***	30.8	31.5	26.5	26.2
2	224.8	47.8	44.7	***	30.9	31.5	26.5	26.2
3	326.8	64.3	65.5	***	31.1	31.6	26.5	26.2
4	429.5	83.7	90.0	***	32.9	32.8	26.5	26.2
5	533.2	91.5	96.3	***	47.8	37.7	26.7	26.2
6	671.1	95.2	96.7	***	66.3	51.8	27.2	26.2
7	602.1	98.4	97.1	***	72.0	62.8	28.9	26.2
8	632.6	101.9	98.3	***	74.4	67.8	31.6	26.4
9	664.1	106.5	100.9	***	76.4	71.6	34.7	26.7
10	698.2	110.6	105.6	***	78.3	74.4	37.8	27.2
11	712.6	114.0	113.8	***	80.0	76.9	40.9	27.9
12	721.4	118.7	121.5	***	80.9	78.4	43.8	28.9
13	731.8	129.0	130.7	***	80.7	79.2	46.5	30.1
14	743.9	162.7	149.8	***	79.4	78.9	48.9	31.5
15	753.9	221.9	183.4	***	74.6	77.9	50.7	33.0
16	762.6	300.0	230.5	***	73.3	77.4	51.8	34.5
17	767.7	373.5	276.0	***	73.4	78.4	52.6	36.0
18	775.4	423.9	320.5	***	71.6	80.0	53.1	37.4
19	782.4	466.0	365.2	***	73.3	82.4	53.4	38.7
20	789.4	504.6	407.3	***	82.3	85.3	53.6	39.9
21	794.7	543.7	440.7	***	101.7	91.4	53.7	40.9
22	799.7	582.3	469.4	***	129.4	100.0	53.8	41.8
23	806.0	620.4	495.6	***	158.2	110.2	54.2	42.6
24	810.6	662.6	518.1	***	187.6	121.4	54.8	43.2
25	815.5	711.2	541.3	***	217.6	132.6	55.9	43.8
26	821.4	746.7	564.2	***	246.8	143.7	57.4	44.6
27	824.7	757.1	594.0	***	272.7	154.8	59.4	45.4
28	829.6	769.9	622.3	***	294.6	165.5	61.6	46.5
29	833.3	773.1	646.9	***	314.9	175.6	63.9	47.7
30	837.2	771.5	665.7	***	332.5	185.7	66.2	49.0
31	842.5	762.5	678.8	***	346.8	196.3	68.4	50.2
32	845.3	759.2	698.0	***	356.6	206.8	70.5	51.6
33	849.9	757.3	696.0	***	362.4	217.3	72.6	53.0
34	853.0	756.1	703.9	***	363.7	228.4	74.6	54.5
35	856.8	755.9	712.3	***	363.6	240.1	76.5	56.1
36	860.0	756.1	719.5	***	365.2	251.8	78.2	57.6
37	863.0	756.6	724.9	***	368.8	263.8	79.8	59.1
38	867.0	757.5	729.4	***	372.9	276.3	81.5	60.6
39	869.7	759.0	734.2	***	378.1	289.2	83.2	62.1
40	873.0	760.5	737.5	***	383.2	301.9	84.9	63.4
41	875.7	762.3	740.5	***	388.5	313.8	86.4	64.7
42	878.6	763.9	743.5	***	393.2	325.2	87.8	65.9
43	881.2	765.4	746.4	***	397.3	335.9	89.0	67.0
44	883.5	767.0	749.0	***	400.9	345.7	90.0	68.1
45	886.7	769.2	751.3	***	403.3	354.6	90.9	68.9
46	889.7	771.5	753.0	***	404.1	361.8	91.7	69.7
47	892.1	774.2	754.5	***	406.6	367.7	92.4	70.2
48	894.8	776.6	754.7	***	411.0	371.7	93.1	70.7
49	897.2	778.7	755.5	***	414.2	375.2	93.7	71.2
50	899.6	781.1	756.7	***	415.5	374.9	94.4	71.6
51	902.2	783.9	757.6	***	412.5	370.2	95.0	72.1
52	904.7	788.0	759.1	***	406.0	360.3	95.7	72.5
53	906.9	791.2	758.4	***	407.3	357.9	96.3	72.9
54	908.7	794.0	759.2	***	408.1	360.4	96.9	73.4
55	910.6	796.7	760.1	***	411.4	364.0	97.6	74.0
56	912.7	799.2	761.0	***	415.1	367.3	98.4	74.4
57	916.0	802.1	762.2	***	419.0	370.4	99.1	75.0

Table 22. Average Temperatures Measured in Assembly S-26, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,18,19)	Mid Sstd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,45)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(26,29,32,33,37)	UnExp. Av(1,2,3,4,5)
0	42.9	43.6	39.6	***	30.8	31.5	26.5	26.2
1	108.5	43.7	39.9	***	30.8	31.5	26.5	26.2
2	224.8	47.8	44.7	***	30.9	31.5	26.5	26.2
3	328.8	64.3	65.5	***	31.1	31.6	26.5	26.2
4	428.5	83.7	80.0	***	32.9	32.8	26.5	26.2
5	533.2	91.5	96.3	***	47.8	37.7	26.7	26.2
6	571.1	95.2	96.7	***	66.3	51.8	27.2	26.2
7	602.1	98.4	97.1	***	72.0	62.8	28.9	26.2
8	632.6	101.9	98.3	***	74.4	67.8	31.6	26.4
9	664.1	106.5	100.9	***	76.4	71.6	34.7	26.7
10	698.2	110.6	105.6	***	78.3	74.4	37.8	27.2
11	712.6	114.0	113.8	***	80.0	76.9	40.9	27.9
12	721.4	118.7	121.5	***	80.9	78.4	43.8	28.9
13	731.8	129.0	130.7	***	80.7	79.2	46.5	30.1
14	743.9	162.7	149.8	***	79.4	78.9	48.9	31.5
15	762.9	221.9	183.4	***	74.6	77.9	50.7	33.0
16	762.6	300.0	230.5	***	73.3	77.4	51.8	34.5
17	767.7	373.5	276.0	***	73.4	78.4	52.6	36.0
18	775.4	423.9	320.5	***	71.6	80.0	53.1	37.4
19	782.4	466.0	368.2	***	73.3	82.4	53.4	38.7
20	789.4	504.8	407.3	***	82.3	85.3	53.6	39.9
21	794.7	543.7	440.7	***	101.7	91.4	53.7	40.9
22	799.7	582.3	468.4	***	129.4	100.0	53.8	41.8
23	806.0	620.4	495.6	***	158.2	110.2	54.2	42.6
24	810.6	662.6	518.1	***	187.6	121.4	54.8	43.2
25	815.5	711.2	541.3	***	217.6	132.6	55.9	43.8
26	821.4	746.7	564.2	**	246.8	143.7	57.4	44.6
27	824.7	757.1	594.0	**	272.7	154.8	59.4	45.4
28	829.6	769.9	622.3	**	294.6	165.6	61.6	46.5
29	833.3	773.1	646.9	**	314.9	175.6	63.9	47.7
30	837.2	771.5	666.7	**	332.5	185.7	66.2	49.0
31	842.5	762.6	678.8	**	346.8	196.3	68.4	50.2
32	845.3	759.2	689.0	**	356.6	206.8	70.5	51.6
33	849.9	757.3	696.0	**	362.4	217.3	72.6	53.0
34	853.0	756.1	703.9	**	363.7	228.4	74.6	54.5
35	856.8	755.9	712.3	**	363.6	240.1	76.5	56.1
36	860.0	756.1	719.5	**	365.2	251.8	78.2	57.6
37	863.0	756.6	724.9	**	368.8	263.8	79.8	59.1
38	867.0	757.5	729.4	**	372.9	276.3	81.5	60.6
39	868.7	759.0	734.2	**	378.1	289.2	83.2	62.1
40	873.0	760.5	737.5	**	383.2	301.9	84.9	63.4
41	875.7	762.3	740.5	**	388.5	313.8	86.4	64.7
42	878.6	763.9	743.6	**	393.2	325.2	87.8	65.9
43	881.2	765.4	746.4	**	397.3	335.9	89.0	67.0
44	883.5	767.0	749.0	**	400.9	345.7	90.0	68.1
45	886.7	769.2	751.3	**	403.3	354.6	90.9	68.9
46	889.7	771.5	753.0	**	404.1	361.8	91.7	69.7
47	892.1	774.2	754.5	**	406.6	367.7	92.4	70.2
48	894.8	776.6	754.7	**	411.0	371.7	93.1	70.7
49	897.1	778.7	755.5	**	414.2	375.2	93.7	71.2
50	899.6	781.1	758.7	**	415.5	374.9	94.4	71.6
51	902.2	783.9	757.6	**	412.5	370.2	95.0	72.1
52	904.7	788.0	758.1	**	406.0	360.3	95.7	72.5
53	906.8	791.2	758.4	**	407.3	367.9	96.3	72.9
54	908.7	794.0	759.2	**	408.1	360.4	96.9	73.4
55	910.8	796.7	760.1	**	411.4	364.0	97.6	74.0
56	912.7	799.2	761.0	**	415.1	367.3	98.4	74.4
57	915.0	802.1	762.2	**	419.0	370.4	99.1	75.0

Table 22. Average Temperatures Measured in Assembly S-26, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22.23)	BL/SStd. (Exp.) Av(12,13,18,19)	Mid SStd. Av(10,11,18,17)	BL/Cav. (UnExp.) Av(24.25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/PL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
58	917.9	805.1	763.5	***	423.1	373.3	99.8	75.4
59	920.3	808.5	764.8	***	427.3	376.1	100.5	75.9
60	920.9	812.0	766.3	***	432.4	379.0	101.3	76.3
61	923.8	816.3	768.1	***	437.6	382.1	102.1	76.8
62	927.0	821.0	770.0	***	443.2	385.3	102.9	77.3
63	928.9	824.9	771.6	***	449.2	388.5	103.8	77.8
64	929.5	829.2	773.3	***	455.5	391.9	104.9	78.4
65	931.9	833.7	775.3	***	462.0	395.5	106.0	79.0
66	933.9	838.5	777.4	***	468.4	399.1	107.3	79.7
67	934.6	843.0	779.6	***	474.6	402.7	108.7	80.4
68	937.5	848.0	781.8	***	480.9	406.5	110.3	81.2
69	938.5	852.6	784.1	***	485.8	410.2	112.2	82.0
70	940.9	857.7	786.4	***	491.6	414.0	114.3	82.7
71	942.6	862.8	788.9	***	497.2	417.6	116.9	83.6
72	943.9	866.5	791.4	***	502.6	421.3	119.9	84.6
73	945.5	871.3	793.8	***	508.4	425.0	123.1	85.7
74	946.6	874.0	796.1	***	515.0	428.9	126.5	86.8
75	948.5	878.1	798.3	***	521.7	432.7	130.1	88.0
76	950.2	882.4	800.9	***	528.6	436.2	134.0	89.3
77	952.3	885.1	803.5	***	535.1	440.0	138.3	90.4
78	953.1	888.1	806.0	***	541.7	443.9	145.1	91.5
79	956.7	892.2	808.8	***	548.1	447.9	148.6	92.6
80	957.5	895.9	811.4	***	554.4	451.9	154.0	93.8
81	960.0	899.9	814.3	***	560.7	456.0	159.5	94.8
82	960.0	903.4	817.2	***	567.0	460.3	164.9	95.7
83	962.6	908.5	820.5	***	572.5	464.2	170.2	96.8
84	964.6	912.1	823.4	***	578.3	468.2	175.4	97.3
85	965.6	915.3	826.5	***	584.0	472.1	180.9	98.1
86	967.3	919.0	829.0	***	589.5	476.0	186.5	98.8
87	969.4	921.0	832.1	***	594.8	479.7	192.3	99.5
88	969.8	923.8	834.7	***	600.1	483.1	198.4	100.2
89	971.7	926.8	837.4	***	605.5	487.7	204.6	101.1
90	974.1	929.2	840.3	***	610.8	492.4	211.1	101.9
91	972.4	929.7	842.9	***	616.2	496.0	217.8	102.8
92	974.1	932.4	845.6	***	621.1	501.1	224.5	103.6
93	976.6	934.9	848.9	***	625.7	516.4	231.1	104.3
94	977.1	935.9	852.3	***	630.6	527.2	237.8	104.9
95	976.7	957.5	863.5	***	635.9	538.2	244.3	105.5
96	981.4	965.4	871.4	***	644.5	545.6	250.7	106.1
97	981.2	965.6	875.4	***	653.1	589.0	256.9	106.7
98	982.7	967.5	878.7	***	659.5	606.2	263.3	107.2
99	984.3	969.7	882.1	***	664.6	616.0	270.1	107.7
100	985.6	968.4	883.7	***	669.3	623.4	277.2	108.3
101	985.6	970.4	886.0	***	673.0	628.5	284.6	108.9
102	987.3	971.4	888.2	***	676.8	629.5	291.8	109.6
103	989.0	974.7	890.9	***	680.6	634.1	299.0	110.4
104	990.6	976.4	893.5	***	684.4	631.4	306.1	111.2
105	991.3	977.8	895.9	***	688.9	633.1	312.9	112.2
106	992.6	979.7	898.7	***	692.6	633.4	318.4	113.6
107	993.5	981.1	901.0	***	696.4	634.6	326.8	115.2
108	994.6	981.8	903.3	***	700.2	638.9	332.1	116.8
109	995.4	983.5	905.4	***	704.1	647.9	338.1	120.2
110	996.5	985.0	908.2	***	707.8	655.1	344.2	123.4
111	997.6	987.0	909.6	***	711.6	659.1	350.6	126.8
112	997.5	986.3	911.9	***	715.4	664.4	357.1	133.0
113	999.1	989.6	914.4	***	718.4	672.9	363.7	138.8
114	999.2	989.9	915.9	***	721.9	675.9	370.3	144.8
115	1000.6	990.8	918.3	***	725.6	678.2	377.1	151.3

Table 22. Average Temperatures Measured in Assembly S-26, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,15,19)	Mid Stud. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(26,27,32,33,34,37)	UnExp. Av(1,2,3,4,5)
116	1001.5	992.6	915.7	***	728.1	680.2	383.7	158.8
117	1002.0	992.9	921.9	***	732.5	681.1	390.5	157.9

Table 23. Temperatures Measured in Assembly S-27, Steel Stud, 2x2 Gypsum Board Layers, Mineral Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	44.7	25.7	26.1	25.9	25.7	26.2	24.9	24.9	24.7	24.9	34.2	32.5	37.9	35.7	31.1	29.8	34.0	32.3	37.7	35.3	30.5
1	114.0	25.7	26.1	25.9	25.7	26.2	25.0	25.0	24.9	25.0	34.2	32.4	37.9	35.7	31.1	29.8	34.0	32.3	37.7	35.3	30.5
2	225.1	25.7	26.1	25.9	25.7	26.1	25.1	25.1	24.9	25.1	34.2	32.5	38.0	35.8	31.1	29.8	34.0	32.3	37.7	35.3	30.5
3	329.1	25.7	26.1	25.9	25.7	26.1	25.1	25.1	24.9	25.1	34.2	32.5	38.5	36.1	31.1	29.8	34.0	32.3	37.7	35.3	30.5
4	426.7	25.7	26.1	25.9	25.8	26.2	25.1	25.0	24.9	25.1	34.4	32.6	42.0	38.2	31.2	29.8	35.3	33.5	36.6	35.5	30.5
5	533.7	25.7	26.1	25.9	25.7	26.2	24.9	24.9	24.7	25.0	35.2	33.3	50.9	45.4	31.4	29.9	41.2	42.7	84.0	82.2	31.1
6	568.9	25.7	26.1	25.9	25.8	26.2	25.1	25.1	25.0	25.1	38.9	35.0	63.7	56.4	31.9	30.1	49.3	61.2	88.3	88.7	32.4
7	600.1	25.7	26.1	25.9	25.8	26.1	25.0	25.0	24.9	25.0	45.6	38.7	74.5	67.6	33.3	30.8	60.3	78.2	90.3	91.9	35.2
8	632.7	25.7	26.1	26.0	25.8	26.2	25.1	25.0	24.9	25.1	54.6	44.4	81.0	76.6	35.9	31.9	73.0	88.8	92.1	93.5	43.7
9	663.6	25.7	26.2	26.0	25.8	26.2	25.1	25.1	24.9	25.2	64.1	50.9	85.0	82.2	40.7	33.7	83.9	92.6	93.2	94.3	71.7
10	698.1	25.7	26.2	26.1	25.8	26.2	25.1	25.0	24.9	25.2	56.7	88.0	85.7	47.8	36.2	91.0	93.9	93.9	94.8	81.9	
11	712.0	25.8	26.2	26.6	25.9	26.2	25.1	25.2	24.9	25.2	78.9	61.2	90.2	87.9	56.0	39.2	92.9	94.4	94.3	95.4	85.5
12	721.5	25.8	26.3	27.5	25.9	26.3	25.1	25.2	24.9	25.3	83.7	65.0	91.9	89.3	63.8	42.4	93.4	94.3	94.5	97.5	87.0
13	731.7	25.9	26.5	29.0	26.0	26.4	25.3	25.6	25.1	25.5	86.6	68.0	93.1	90.4	70.2	45.6	93.2	93.9	95.7	100.0	87.3
14	743.3	26.1	27.0	31.1	26.1	26.6	25.5	26.1	25.4	25.8	86.7	69.6	93.4	91.1	72.6	48.3	92.0	92.8	94.6	100.0	85.5
15	753.6	26.5	27.6	33.8	26.4	26.9	25.5	26.6	25.4	25.9	86.6	70.8	93.3	91.8	73.8	50.6	89.5	90.4	92.6	101.2	83.2
16	761.8	26.9	28.7	36.8	26.6	27.3	25.7	27.3	25.6	26.1	86.5	72.2	93.3	92.8	74.7	52.5	87.9	88.1	99.3	107.4	81.0
17	768.2	27.6	29.9	39.6	27.0	27.9	26.0	28.3	26.2	26.4	88.1	73.9	94.0	94.0	76.7	54.5	90.1	90.7	118.1	125.6	80.8
18	775.0	28.3	31.4	42.2	27.4	28.5	25.9	28.1	26.1	26.2	90.2	75.9	96.1	95.3	79.7	56.6	91.4	92.9	138.0	143.4	82.3
19	783.0	29.2	32.9	44.4	27.8	29.2	26.4	29.5	26.5	26.7	91.5	78.4	96.8	96.6	82.6	59.9	94.3	154.0	156.4	183.4	
20	789.6	30.2	34.5	46.5	28.3	30.0	26.7	30.2	26.6	26.9	92.2	80.5	97.4	97.3	84.5	61.4	93.2	97.5	163.5	167.5	84.2
21	794.6	31.3	36.2	48.4	28.9	30.8	26.8	30.5	26.9	27.0	92.6	82.2	97.9	97.9	85.6	63.8	95.9	102.9	168.9	173.6	84.5
22	799.6	32.6	38.0	50.3	29.6	31.6	27.8	32.6	27.8	27.7	92.9	83.6	98.1	98.2	86.5	66.0	98.4	107.6	171.3	178.5	84.7
23	805.7	33.9	39.8	52.1	30.3	32.7	28.2	33.3	28.2	28.1	93.2	84.8	98.1	98.5	87.1	67.9	101.0	111.4	173.1	183.7	85.0
24	810.9	35.4	41.7	53.7	31.1	33.8	28.7	33.5	28.8	28.6	93.6	86.0	98.2	98.9	88.0	69.7	103.8	114.6	177.1	190.6	85.3
25	816.7	36.9	43.5	55.2	32.0	35.0	29.8	35.7	29.6	29.2	93.8	87.2	98.2	99.9	88.7	71.4	106.3	117.5	183.7	199.3	85.7
26	821.8	38.5	45.3	56.5	32.9	36.2	30.0	36.0	29.8	29.3	93.9	88.4	98.3	102.5	89.4	73.0	108.9	121.0	194.1	209.9	86.1
27	825.3	40.1	47.0	57.7	33.8	37.5	30.4	36.4	30.3	29.9	94.0	89.4	98.7	105.6	90.0	74.4	112.0	125.3	207.8	221.7	86.5
28	829.5	41.7	48.6	58.7	34.8	38.7	31.1	37.7	30.9	30.3	93.8	90.4	101.4	108.4	90.4	75.9	116.1	130.2	224.1	234.5	86.7
29	833.4	43.4	50.1	59.7	35.9	40.0	31.9	38.2	31.8	30.8	93.7	91.2	108.9	111.6	90.6	77.1	120.7	135.5	240.2	246.3	87.0
30	838.2	45.0	51.6	60.5	37.0	41.4	33.3	40.5	32.7	32.0	93.7	92.0	114.2	114.5	90.7	78.1	125.5	140.9	252.1	254.7	87.4
31	841.9	46.7	53.0	61.3	38.2	42.7	33.1	39.5	33.4	31.7	93.6	93.0	117.2	116.7	90.7	79.1	130.1	145.8	262.6	260.3	87.8
32	845.8	48.2	54.2	61.9	39.3	43.9	34.3	40.5	33.6	33.3	93.7	93.7	118.9	118.5	90.6	79.9	134.5	149.7	266.8	265.2	88.2
33	849.2	49.7	55.5	62.6	40.5	45.2	36.8	41.7	34.5	33.8	94.1	94.0	120.1	120.0	90.4	80.5	138.9	153.2	269.9	270.3	88.6
34	852.9	51.1	56.6	63.1	41.7	48.3	36.2	42.6	34.6	33.6	94.9	94.3	121.2	121.5	90.1	81.1	143.7	157.0	280.7	277.9	89.4
35	856.7	52.3	57.5	63.5	42.7	47.5	36.5	43.2	35.6	34.9	95.9	94.8	122.4	122.9	89.8	81.5	149.3	161.5	295.7	288.7	90.3
36	860.7	53.5	58.3	63.9	43.8	48.5	37.3	42.5	35.4	34.4	97.5	95.3	123.7	124.4	89.3	81.7	155.6	168.8	311.4	312.9	92.5
37	862.5	54.5	58.9	64.1	44.7	49.5	37.4	42.3	35.5	34.9	100.1	95.9	125.6	126.1	88.4	81.9	162.6	172.9	328.3	339.4	95.0
38	866.0	55.3	59.5	64.2	45.7	50.4	36.6	41.0	34.8	34.3	101.8	96.5	128.4	128.6	87.6	81.9	170.4	179.7	347.1	352.2	97.2
39	869.4	56.0	59.9	64.4	46.6	51.2	39.2	44.2	37.6	35.9	103.8	97.5	131.4	132.2	86.7	81.6	178.8	187.1	364.7	370.3	99.6
40	872.4	56.7	60.4	64.4	47.4	52.1	39.7	43.5	37.7	36.7	105.9	98.9	134.6	135.8	85.8	81.3	188.1	195.4	381.2	387.6	102.6
41	876.5	57.2	60.5	64.2	48.0	52.6	38.7	42.1	37.4	35.9	108.3	101.1	140.2	140.1	84.4	80.7	198.1	204.3	395.7	401.9	105.8
42	878.0	57.5	60.6	64.0	48.6	53.1	39.7	43.2	36.7	36.5	112.0	103.5	154.1	153.4	83.3	79.9	208.5	213.6	410.6	414.8	109.3
43	882.2	57.6	60.6	63.7	49.0	53.5	38.7	42.2	37.5	36.8	117.3	106.4	172.5	167.2	83.3	79.1	218.5	223.0	428.5	425.5	113.1
44	884.1	57.6	60.5	63.4	49.5	53.7	39.2	42.4	37.8	36.3	124.2	111.3	196.9	187.5	83.5	78.8	228.1	232.1	435.3	434.7	117.0
45	886.7	57.4	60.3	63.1	49.8	53.9	39.1	41.4	36.1	35.8	133.2	118.3	225.2	213.0	83.9	79.3	237.6	241.4	444.3	443.3	121.0
46	889.9	57.3	60.2	62.7	50.1	54.0	38.0	40.9	36.5	36.7	143.6	127.0	249.8	233.8	84.7	80.4	247.2	250.6	453.7	452.0	125.1
47	891.9	57.2	60.0	62.4	50.2	54.1	39.0	41.4	36.3	36.2	154.8	136.5	272.9	253.2	86.1	81.5	256.6	259.5	463.5	460.7	129.2
48	894.8	57.0	59.8	62.0	50.3	54.1	38.8	41.2	36.2	35.8	166.3	146.6	294.9	272.9	88.2	83.0	266.0	268.3	473.3	469.6	133.3
49	897.5	56.8	59.6	61.7	50.3	54.2	38.9	41.4	37.2	37.4	177.5	156.7	315.7	291.4	90.4	85.3	275.4	276.9	483.0	478.9	137.4
50	899.6	56.6	59.4	61.3	50.4	54.1	37.9	39.9	34.9	35.6	188.9	166.7	335.3	309.5	94.3	87.9	284.7	285.5	492.7	488.6	141.5
51	901.4	56.3																			

Table 23. Temperatures Measured in Assembly S-27, Steel Stud, 2x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	918.6	55.3	58.3	59.6	49.4	53.5	37.0	39.9	36.1	36.7	276.8	244.9	452.4	420.7	142.5	120.4	359.5	352.0	578.8	572.8	172.6
59	920.4	55.3	58.3	59.6	49.4	53.5	35.1	38.3	34.4	34.8	287.1	254.2	463.4	430.6	148.4	126.2	369.0	360.2	588.8	583.6	177.2
60	922.0	55.4	58.4	59.7	49.4	53.4	35.7	38.7	34.4	34.6	297.1	263.3	474.3	440.5	154.0	129.9	378.3	368.3	599.2	594.5	181.8
61	924.3	55.6	58.5	59.7	49.5	53.4	34.8	37.2	33.3	33.9	306.9	272.3	484.7	450.6	159.6	134.8	387.5	376.6	609.7	605.3	186.6
62	926.3	55.8	58.5	59.8	49.4	53.4	35.8	39.1	34.4	35.4	316.5	281.0	494.4	460.9	165.3	139.5	396.4	384.7	619.4	615.5	191.4
63	929.3	56.2	58.9	60.0	49.8	53.7	36.8	39.7	35.6	35.8	326.0	298.6	503.7	470.9	171.4	144.1	405.0	392.6	629.0	625.9	196.3
64	928.8	56.7	59.3	60.4	49.9	53.9	38.0	42.5	37.4	37.1	335.3	298.0	513.0	480.7	177.5	148.7	413.3	400.3	638.5	636.1	201.0
65	932.0	57.3	59.8	60.8	50.3	54.2	36.7	40.0	34.9	35.6	344.3	306.1	522.6	490.1	183.8	153.3	421.2	408.1	647.3	645.6	205.8
66	933.7	57.8	60.2	61.2	50.7	54.5	37.6	40.9	36.2	37.1	353.2	314.2	532.4	499.1	190.1	158.1	428.6	415.6	656.1	655.4	210.5
67	935.6	58.3	60.7	61.6	51.0	54.8	35.5	39.0	34.6	34.8	361.7	322.0	541.8	507.8	196.1	162.8	435.6	423.0	664.6	665.8	215.0
68	937.2	58.9	61.3	62.1	51.5	55.2	39.1	43.7	37.6	38.2	370.2	329.7	551.3	516.6	202.0	167.6	442.3	430.4	673.0	678.9	219.4
69	938.4	59.5	61.9	62.6	51.9	55.6	35.3	39.0	34.2	34.5	378.2	337.1	561.1	525.5	207.7	172.5	448.8	437.8	681.1	690.9	223.7
70	941.1	60.0	62.4	63.1	52.4	56.1	37.3	40.3	35.6	35.6	386.1	344.3	570.6	534.6	213.2	177.2	455.1	445.2	689.3	701.2	228.0
71	942.5	60.7	63.0	63.7	53.0	56.6	38.4	41.9	36.2	37.3	393.7	351.4	579.3	543.8	218.4	181.8	461.1	452.4	698.1	711.3	232.1
72	944.0	61.3	63.6	64.3	53.7	57.2	38.5	42.4	37.3	37.1	400.8	358.4	587.6	553.1	223.4	186.3	467.2	459.6	707.6	720.7	236.2
73	945.5	61.9	64.2	64.9	54.2	57.8	38.5	44.1	37.9	37.5	407.8	365.2	595.8	562.8	228.4	190.7	473.6	467.0	718.4	728.3	240.4
74	947.3	62.4	64.8	65.4	54.7	58.3	38.4	42.1	36.9	37.2	414.9	371.9	604.0	572.8	233.3	195.0	480.1	474.3	729.7	738.8	244.6
75	948.4	62.7	65.3	65.8	55.1	58.8	39.4	42.3	37.6	38.1	422.9	378.4	613.0	582.2	238.5	199.2	486.6	481.7	741.9	747.2	248.9
76	949.6	62.9	66.0	66.2	55.7	59.5	42.7	46.3	39.8	40.0	432.6	384.9	625.0	591.8	244.2	203.4	492.8	489.1	754.0	758.4	253.2
77	951.9	63.1	66.7	66.6	56.5	60.2	44.1	47.3	41.0	41.8	443.7	391.3	638.5	600.2	250.4	207.6	498.9	496.6	765.1	767.5	257.6
78	954.9	63.5	67.3	67.1	56.9	60.8	44.1	46.8	41.6	41.6	456.3	397.4	653.1	609.6	257.4	211.5	504.9	504.0	775.5	774.7	262.0
79	955.9	63.8	67.9	67.5	57.2	61.3	43.1	46.3	40.8	40.8	470.3	403.7	668.9	618.8	265.4	215.5	511.0	511.3	786.5	781.8	266.4
80	956.6	64.1	68.4	67.9	57.7	61.8	41.7	44.1	38.3	39.7	485.3	409.8	687.3	626.5	274.3	219.3	517.4	518.4	791.2	788.4	270.9
81	959.9	64.4	69.0	68.4	57.8	62.4	42.3	45.1	40.8	41.3	501.1	415.7	702.6	635.2	284.0	223.2	524.0	525.6	792.6	792.4	275.4
82	960.4	64.9	69.4	69.0	58.2	62.8	44.2	46.7	40.0	41.7	517.9	421.6	716.5	642.9	294.6	227.1	530.8	532.8	794.1	801.4	280.0
83	962.4	65.4	70.0	69.8	58.3	63.3	40.1	44.4	38.0	39.3	534.3	427.4	727.9	651.2	305.8	231.2	537.3	540.3	796.7	803.5	284.8
84	963.7	66.0	70.5	70.5	58.4	63.9	42.1	48.9	41.1	42.4	561.4	433.2	737.7	658.5	317.4	235.2	544.2	548.7	799.9	808.6	289.6
85	966.3	66.6	71.1	71.3	58.8	64.8	43.6	47.6	41.6	42.1	580.8	438.9	744.1	666.3	328.9	239.5	551.3	557.3	803.8	809.4	294.5
86	967.1	67.2	71.5	71.9	59.1	65.6	43.6	47.2	41.1	42.5	588.6	444.8	748.9	674.4	339.2	243.7	558.5	565.8	807.4	809.4	299.6
87	967.4	67.7	72.0	72.4	59.5	66.6	43.9	46.4	40.3	41.7	571.5	450.9	754.7	682.7	348.5	248.2	565.7	574.6	811.3	812.0	305.0
88	970.1	68.2	72.5	73.0	59.8	67.4	44.0	47.0	42.2	41.7	576.1	457.1	761.7	689.9	356.3	252.9	572.8	585.5	814.3	808.9	310.6
89	971.2	68.8	73.0	73.4	60.2	68.2	45.1	47.7	41.8	42.4	580.8	463.4	769.4	696.8	363.0	257.7	579.7	592.9	817.9	808.0	316.5
90	972.2	68.9	73.3	73.6	60.1	68.7	38.2	41.1	37.3	37.4	585.6	469.9	777.6	703.6	368.1	262.7	586.6	600.1	820.5	807.6	323.0
91	972.7	69.1	73.5	73.8	61.3	69.3	46.3	47.7	42.1	43.4	691.1	476.5	786.8	710.2	371.0	268.0	593.5	607.4	823.1	808.4	330.1
92	975.8	69.6	74.0	74.1	62.1	70.1	45.8	48.8	42.4	43.4	596.0	483.7	795.9	717.5	374.7	273.5	600.5	615.1	822.8	806.9	338.4
93	976.3	69.9	74.3	74.5	62.4	70.7	43.0	45.6	39.8	41.0	600.3	491.0	805.8	724.7	379.4	279.4	607.4	622.3	823.1	805.8	348.6
94	977.5	70.1	74.7	74.7	62.9	71.2	46.3	48.1	42.2	42.4	605.0	497.7	816.3	731.7	385.6	284.9	614.4	629.2	822.8	804.2	361.3
95	978.7	70.4	75.1	74.9	63.1	72.0	45.3	47.8	42.1	42.5	610.3	505.2	827.6	739.2	392.6	290.2	621.5	635.3	822.2	803.0	376.0
96	979.8	70.7	75.4	75.2	63.6	72.8	47.3	48.5	42.2	43.9	615.5	512.5	834.2	746.1	399.5	295.7	628.6	640.5	822.4	802.0	393.1
97	981.1	71.0	75.8	75.5	63.9	73.5	47.1	48.2	42.4	43.2	620.2	519.1	835.1	753.3	405.7	301.4	635.8	645.3	824.5	801.5	411.9
98	982.4	71.4	76.2	75.8	64.1	74.2	47.0	48.5	42.5	43.3	624.4	526.0	833.9	761.7	411.4	307.3	643.6	650.1	827.1	800.7	422.6
99	984.2	71.8	76.6	76.0	64.1	75.0	44.7	46.0	41.1	42.5	628.3	533.1	834.1	769.5	415.3	313.4	651.6	664.7	828.9	800.4	423.8
100	984.9	72.3	77.1	76.2	64.1	75.6	43.5	45.4	41.1	41.1	632.1	540.6	834.3	778.7	418.3	319.5	660.1	659.0	830.3	801.0	427.9
101	985.9	72.8	77.4	76.3	64.5	76.4	46.2	47.5	42.8	43.5	636.4	548.5	834.7	785.6	421.6	325.8	667.4	663.2	831.9	802.4	432.2
102	988.5	73.5	78.0	76.5	65.3	77.3	44.5	47.1	43.5	43.6	640.7	557.0	836.3	790.8	427.4	332.4	674.6	667.5	834.9	805.0	434.9
103	989.3	74.3	78.6	76.7	66.4	78.3	48.9	51.0	45.7	46.2	644.7	565.7	837.6	797.0	432.9	338.9	680.7	671.8	838.7	808.4	436.7
104	990.2	75.0	79.2	76.9	67.1	79.1	48.8	49.8	44.4	45.1	648.1	574.3	838.4	804.7	438.5	345.2	687.9	676.6	845.5	813.8	435.9
105	991.7	75.8	79.8	77.1	67.7	80.0	49.3	50.0	44.9	44.4	651.7	583.8	841.2	811.2	443.8	351.7	695.5	678.4	854.3	817.4	435.4
106	991.8	76.5	80.4	77.2	68.5	80.8	50.4	51.3	46.5	46.9	656.4	594.9	844.7	818.4	449.7	359.0	702.8	680.5	860.0	822.0	440.2
107	992.7	77.4	81.1	77.4	69.2	81.6															

Table 23. Temperatures Measured in Assembly S-27, Steel Stud, 2x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
116	1000.1	83.7	86.8	78.5	75.8	87.1	51.0	52.6	49.1	51.3	719.6	690.0	869.6	837.2	517.5	489.5	768.3	719.1	884.0	867.2	453.0
117	1002.6	84.4	87.6	78.9	76.5	87.8	50.6	52.5	47.3	50.6	723.0	696.9	870.8	837.7	523.0	497.7	772.6	724.0	881.6	870.6	454.3
118	1003.0	84.9	88.4	79.3	76.6	88.3	47.7	49.4	45.5	47.7	725.6	703.0	871.8	838.2	528.4	503.7	776.9	728.6	880.8	872.6	456.5
119	1002.9	85.3	89.2	79.7	77.2	88.8	50.0	52.7	48.4	52.0	728.2	708.1	872.8	839.0	533.3	507.4	781.8	734.0	880.5	875.6	456.9
120	1004.6	85.8	90.1	80.3	77.8	89.4	49.6	50.9	47.3	50.2	730.5	712.6	873.7	840.2	537.9	508.9	785.5	738.8	881.9	877.5	456.5
121	1005.2	86.4	91.4	80.8	78.3	90.1	52.1	53.4	49.3	51.7	732.6	717.1	874.5	841.6	542.0	509.7	786.3	742.8	884.2	877.1	459.5
122	1006.8	87.0	92.8	81.5	78.1	90.6	48.5	49.7	47.4	49.3	734.2	720.7	874.9	842.8	545.9	510.6	784.1	742.0	886.5	869.1	461.7
123	1006.0	87.8	94.5	82.0	78.2	91.4	50.1	50.3	47.5	50.6	735.4	724.1	875.0	844.1	547.3	511.3	786.1	740.9	890.8	865.0	464.4
124	1008.0	88.7	96.2	82.6	78.5	92.6	50.0	49.0	46.3	49.4	736.5	727.0	874.9	845.6	549.4	511.8	787.5	742.1	896.1	863.2	468.0
125	1007.9	90.1	97.8	83.1	78.7	94.2	50.8	50.1	46.3	49.7	737.3	729.5	874.9	846.8	551.7	512.3	788.6	743.6	903.1	862.9	471.5
126	1009.3	92.5	99.3	83.8	79.5	95.9	52.0	51.9	48.0	52.6	738.0	731.4	875.0	848.0	554.2	512.6	790.2	745.4	909.0	862.2	474.8
127	1008.1	95.5	100.7	84.4	80.1	97.5	50.1	49.8	46.3	51.4	738.4	732.7	875.2	848.8	556.5	513.1	791.5	746.4	912.0	859.8	478.2
128	1010.0	97.9	101.9	85.1	80.9	98.9	51.0	49.2	45.6	50.4	739.0	733.7	875.4	849.7	558.1	514.0	792.4	747.4	914.8	858.1	481.4
129	1009.9	99.7	103.0	85.7	82.2	100.1	56.3	52.8	47.2	54.5	739.9	734.9	875.9	850.7	559.7	515.1	793.7	749.5	917.0	858.6	484.0
130	1012.6	101.3	103.9	86.5	84.3	101.1	57.1	53.0	47.4	54.0	740.7	735.9	876.4	851.5	561.6	516.9	794.8	751.1	918.1	857.4	485.6
131	1011.7	102.6	104.7	87.4	86.4	102.0	54.7	52.2	45.7	54.5	741.4	736.9	877.1	852.3	563.9	516.8	795.9	752.5	920.9	858.7	488.2
132	1013.7	103.7	105.4	88.2	89.0	102.8	56.5	52.6	46.4	54.8	742.4	738.5	878.0	853.1	565.3	518.0	798.1	755.0	922.7	861.6	491.3
133	1013.7	104.6	106.2	89.4	92.1	103.6	62.3	56.8	50.7	58.5	743.2	739.8	878.7	853.8	566.5	519.4	799.6	756.1	923.1	861.8	494.3
134	1014.2	105.4	106.8	90.8	94.5	104.4	63.7	56.7	50.2	58.6	744.0	741.1	879.5	854.6	567.9	520.9	801.2	757.6	924.4	864.3	497.2
135	1015.5	106.1	107.5	92.5	96.3	105.2	64.6	59.2	51.4	60.9	745.0	742.3	880.4	855.3	568.9	522.6	802.8	758.9	926.6	866.8	500.2
136	1015.6	106.8	108.1	94.2	96.5	105.6	59.2	56.2	49.3	55.9	745.9	743.9	881.3	856.1	570.5	524.4	804.5	760.6	928.1	870.4	503.3
137	1016.5	107.3	108.7	96.0	97.9	106.3	62.7	58.8	49.8	57.5	747.0	744.4	882.3	857.0	571.4	527.0	806.4	762.1	929.0	873.2	506.2
138	1017.3	107.8	109.2	97.7	98.0	106.7	59.2	56.2	49.1	55.1	748.2	745.6	883.4	858.1	573.2	529.8	808.5	763.6	930.3	876.1	509.3
139	1018.4	108.3	109.7	99.2	98.8	107.1	59.9	59.4	51.3	58.7	749.5	746.8	884.3	859.3	574.5	532.7	810.7	765.1	932.1	878.9	512.5
140	1018.8	108.7	110.1	100.4	99.9	107.4	63.3	60.2	51.5	60.0	750.9	748.2	885.5	860.5	576.2	535.9	813.0	767.2	932.9	882.8	515.9
141	1019.8	109.3	110.6	101.4	100.4	107.7	57.9	57.3	51.9	57.6	752.4	749.7	886.7	861.9	578.1	539.1	815.7	769.2	934.0	885.4	519.3
142	1019.4	109.7	111.1	102.4	100.7	108.0	62.2	59.3	52.7	57.7	753.9	751.1	887.9	863.1	580.0	542.3	818.3	771.2	935.8	888.2	523.1
143	1020.3	110.2	111.7	103.2	101.6	108.5	65.5	62.6	55.8	61.4	755.8	752.9	889.4	864.6	582.5	545.9	821.5	773.8	937.8	892.4	527.0
144	1021.9	110.7	112.3	104.0	102.0	108.8	59.1	58.9	51.8	57.7	757.6	754.3	890.6	865.9	585.0	549.3	823.6	776.2	938.0	893.5	546.7
145	1021.1	111.3	113.2	104.6	102.6	109.2	67.4	63.8	58.6	64.7	758.4	755.9	891.9	867.5	587.6	552.6	826.2	778.4	941.2	896.3	581.7
146	1023.6	111.9	114.1	105.0	103.1	109.6	66.8	62.9	54.2	65.2	761.3	757.7	893.3	868.9	590.7	556.0	829.4	780.9	941.7	898.3	623.4
147	1023.8	112.5	115.0	105.5	104.0	110.1	68.3	64.2	57.6	64.8	763.1	759.5	894.7	870.5	593.7	559.4	832.0	783.1	942.7	900.1	633.0
148	1024.5	113.2	115.9	105.9	104.5	110.5	70.3	67.6	59.3	66.6	764.9	761.2	895.9	872.1	596.8	562.6	834.7	785.5	943.6	901.9	636.1
149	1025.3	114.2	116.8	106.3	105.9	111.0	73.1	68.7	61.1	69.3	766.5	762.9	897.0	873.6	600.1	565.8	837.1	787.7	944.3	903.1	637.8
150	1025.5	115.4	117.7	106.7	106.1	111.5	67.9	63.9	58.0	64.6	768.1	764.6	898.2	874.9	603.5	575.8	839.7	790.2	945.9	905.3	634.1
151	1026.2	117.2	118.5	107.0	106.5	111.9	69.4	66.4	57.5	66.9	769.8	766.3	899.4	876.1	607.0	607.1	842.4	793.4	947.5	908.7	651.0
152	1027.0	120.2	119.4	107.3	107.1	112.4	71.5	65.4	58.4	66.3	771.7	768.3	900.7	877.2	610.4	643.1	845.6	796.6	949.0	910.6	664.6
153	1027.5	125.3	120.5	107.6	107.8	113.0	70.4	68.2	58.7	70.8	773.5	769.8	901.9	877.5	613.6	648.0	848.4	798.7	949.7	912.4	669.9
154	1028.4	130.1	122.2	108.0	108.7	113.9	73.7	71.6	63.0	71.9	775.2	771.4	903.1	878.2	616.7	648.9	850.8	800.8	950.0	913.8	674.3
155	1029.6	140.9	125.4	108.3	109.5	115.1	68.3	67.0	59.6	68.5	777.2	773.3	904.5	879.1	620.2	663.0	853.7	803.6	952.6	916.2	685.8
156	1028.7	151.1	132.4	108.7	110.7	117.0	75.5	69.7	60.0	70.5	779.0	775.0	905.8	880.6	623.6	666.9	856.6	803.3	955.1	918.8	689.8
157	1030.3	161.0	137.7	109.0	111.9	119.9	75.8	69.9	60.0	70.6	780.9	776.8	907.1	882.2	627.3	677.4	861.0	809.7	957.8	924.0	699.0
158	1031.1	183.3	144.9	109.4	113.9	123.8	79.6	70.6	62.4	72.8	782.8	778.8	908.2	883.3	631.0	685.0	864.0	813.0	957.5	924.3	700.7
159	1032.1	204.3	152.9	109.8	117.1	127.4	79.2	70.5	61.6	75.6	784.5	780.6	909.5	884.6	634.5	690.3	866.8	816.1	957.6	926.0	683.6
160	1031.6	224.1	157.8	110.3	121.9	133.1	80.2	71.5	63.0	79.4	786.3	782.5	910.7	885.7	638.2	694.7	869.1	819.7	957.8	929.1	688.9
161	1033.7	244.4	164.3	110.8	125.5	140.3	73.2	64.2	58.7	71.2	788.1	784.6	912.1	887.1	641.7	697.9	871.8	825.5	959.1	935.3	657.6
162	1033.8	266.2	180.5	111.4	133.7	146.4	80.1	68.5	60.8	75.8	790.0	786.6	913.4	888.5	645.3	702.1	874.3	835.8	960.4	946.1	661.4

Table 23. Temperatures Measured in Assembly S-27, Steel Stud, 2x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min.)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
0	44.7	29.5	42.4	39.7	29.5	30.1	41.8	38.9	26.9	26.6	44.4	41.6	25.7	25.5	41.0	38.4	26.5	26.2
1	114.0	29.5	42.4	39.7	29.7	30.2	41.9	39.0	26.9	26.6	44.6	41.7	25.7	25.6	41.1	38.5	26.8	26.3
2	225.1	29.5	42.5	39.7	29.9	30.2	48.0	42.9	26.9	26.6	54.3	45.4	25.7	25.6	50.4	43.5	26.6	26.3
3	329.1	29.6	43.1	39.8	29.9	30.2	79.5	61.6	26.9	26.6	71.4	60.9	25.7	25.6	71.2	60.8	26.6	26.2
4	426.7	29.6	46.2	40.5	30.0	30.2	95.8	93.2	26.9	26.8	84.4	76.7	25.8	25.6	85.9	79.4	26.6	26.3
5	533.7	30.3	53.5	43.4	30.0	30.3	96.3	96.1	26.9	26.6	89.2	87.1	25.7	25.5	90.1	87.3	26.5	26.2
6	568.9	33.1	66.6	58.5	30.1	30.4	96.1	96.3	26.9	26.6	92.1	90.8	25.8	25.6	93.0	92.6	26.6	26.3
7	600.1	40.8	76.4	76.7	30.3	30.9	96.0	96.6	27.0	26.7	96.6	94.2	25.8	25.6	96.6	97.6	26.6	26.5
8	632.7	54.8	83.7	85.1	31.0	33.0	96.3	96.8	27.1	26.6	103.0	98.2	25.8	25.6	100.4	102.0	26.6	27.8
9	663.6	69.1	87.4	89.8	32.3	40.2	98.8	98.6	27.2	26.8	107.7	101.8	25.9	25.6	103.9	106.0	26.7	31.6
10	698.1	78.6	90.0	91.9	34.7	51.8	105.9	102.7	27.5	26.9	112.4	104.4	26.0	25.8	107.9	109.7	27.2	38.0
11	712.0	84.8	91.7	92.9	38.2	61.5	112.1	108.3	28.0	27.2	116.6	106.7	26.2	26.3	112.2	113.8	28.5	46.2
12	721.5	88.0	92.4	93.2	42.8	67.9	119.5	114.5	28.9	27.7	121.8	109.1	26.6	27.3	116.4	117.6	30.9	54.3
13	731.7	88.2	92.7	93.1	47.7	71.9	131.0	124.8	30.2	28.4	132.2	113.0	27.3	26.8	122.7	124.1	34.3	60.5
14	743.3	85.9	91.9	92.6	52.2	73.2	130.1	139.3	31.8	29.3	155.6	123.4	28.4	30.8	132.5	140.0	38.6	64.3
15	753.6	84.0	89.8	91.7	54.7	72.9	142.5	160.9	33.5	30.4	197.4	153.9	30.0	33.1	159.2	177.3	42.5	65.9
16	761.8	82.5	91.7	90.4	56.2	72.7	168.1	187.9	35.3	31.5	224.5	195.3	31.6	35.2	195.0	215.4	45.6	66.2
17	768.2	83.6	94.4	92.6	57.0	72.8	196.7	203.8	37.0	32.8	258.9	221.1	33.2	37.1	219.4	242.2	47.9	66.1
18	775.0	86.1	97.4	94.0	59.0	74.7	210.9	218.3	38.7	34.1	289.0	249.7	34.8	38.8	243.2	264.3	50.2	67.0
19	783.0	87.3	103.0	94.8	61.6	77.1	230.6	233.8	40.5	35.4	307.4	274.3	36.5	40.5	265.3	285.3	52.9	68.5
20	789.6	87.6	109.6	96.8	64.2	79.1	247.6	250.1	42.4	36.8	322.2	291.3	38.3	42.3	283.8	302.9	55.6	69.8
21	794.6	87.5	113.5	107.4	66.4	80.5	259.3	263.0	44.3	38.4	338.0	307.0	40.3	44.3	300.0	320.4	58.1	71.0
22	799.6	87.3	116.1	112.9	68.3	81.4	271.0	270.6	46.3	40.0	352.3	321.3	42.4	46.2	315.3	339.8	60.2	71.8
23	805.7	87.2	118.3	116.7	70.2	82.1	282.7	275.8	48.3	41.8	363.3	334.6	44.4	48.2	332.9	356.1	62.0	72.5
24	810.9	87.2	120.4	120.1	71.8	82.9	294.4	280.5	50.3	49.6	372.0	345.3	46.4	50.0	350.5	375.5	63.5	73.1
25	816.7	87.1	122.4	123.2	73.3	83.6	308.1	289.5	52.1	45.3	383.8	356.4	48.2	51.7	365.8	381.6	65.0	73.6
26	821.8	87.3	124.3	125.9	74.8	84.4	329.6	296.9	53.9	47.1	396.5	367.4	50.1	53.3	380.1	403.8	66.4	74.1
27	825.3	87.6	126.4	128.3	76.3	85.0	339.9	303.7	55.6	49.0	408.4	380.2	51.9	55.0	394.7	415.5	67.7	74.5
28	829.5	87.9	127.6	130.7	77.4	85.7	350.0	313.8	57.2	50.7	421.8	393.2	53.6	56.5	410.5	429.0	68.9	74.9
29	833.4	88.3	128.5	132.9	78.3	86.1	356.6	323.6	58.8	52.5	434.8	406.7	55.2	57.9	426.5	443.9	69.9	75.1
30	838.2	89.3	129.9	134.2	78.8	86.1	363.3	333.4	60.1	54.2	447.5	420.1	56.7	59.3	440.7	461.3	70.9	75.4
31	841.9	90.5	131.9	134.8	79.4	86.1	372.5	345.7	61.4	55.9	459.7	431.9	58.1	60.5	455.1	479.7	71.7	75.7
32	845.8	91.4	135.1	135.7	79.8	86.1	383.9	360.7	62.5	57.4	472.0	443.1	59.3	61.5	470.9	495.9	72.4	75.8
33	849.2	92.3	140.0	137.3	80.1	86.1	396.0	375.5	63.5	58.8	484.6	454.9	60.3	62.4	487.7	510.5	72.9	75.9
34	852.9	93.4	146.9	140.1	79.9	86.0	410.1	392.9	64.4	60.1	496.4	466.3	61.3	63.3	504.0	523.6	73.4	75.9
35	856.7	96.2	157.1	144.8	80.3	85.8	425.7	409.9	65.2	61.2	507.5	477.3	62.0	63.9	519.2	538.1	73.6	75.8
36	860.7	98.1	159.2	151.5	80.5	85.3	441.6	425.5	65.9	62.2	517.8	488.6	62.7	64.4	533.7	548.5	73.7	75.6
37	862.5	100.2	189.6	162.1	80.3	85.0	458.3	441.0	66.4	63.2	528.4	500.8	63.1	64.8	548.0	561.2	73.7	75.4
38	866.0	101.8	211.8	177.3	79.7	84.2	475.6	456.3	66.8	63.9	538.8	511.8	63.4	65.1	562.0	573.5	73.5	75.0
39	869.4	104.4	238.2	197.7	78.5	83.3	493.0	473.3	67.1	64.6	550.3	522.7	63.5	65.1	575.8	585.5	73.0	74.4
40	872.4	107.4	265.0	222.8	76.7	82.0	508.9	490.9	67.1	65.1	563.6	533.8	63.3	65.0	589.3	597.6	72.3	73.7
41	876.5	110.9	291.9	248.7	75.3	80.9	523.6	505.5	66.9	65.4	577.0	546.3	62.9	64.6	602.3	608.3	71.7	73.0
42	878.0	114.6	319.8	274.7	74.6	81.0	538.0	519.8	66.6	65.4	591.0	560.5	62.3	64.0	616.3	618.4	71.2	72.4
43	882.2	118.6	343.4	301.2	74.8	82.7	553.6	532.3	66.3	65.3	604.0	574.4	61.8	63.3	627.1	626.3	70.8	71.9
44	884.1	122.6	368.7	329.3	75.5	86.5	571.5	547.3	66.0	65.1	617.7	588.2	61.3	62.7	637.8	634.3	70.5	71.6
45	886.7	126.5	392.5	358.9	75.5	92.6	590.3	562.9	65.8	64.8	630.4	602.4	61.0	62.2	647.9	642.0	70.0	71.2
46	889.9	130.7	412.2	382.2	76.6	100.1	608.8	579.1	65.4	64.6	642.9	617.4	60.5	61.8	658.0	660.9	69.5	70.7
47	891.9	134.8	429.3	402.8	78.9	108.9	626.5	594.0	65.1	64.5	655.2	631.3	59.9	61.3	667.7	659.9	69.0	70.2
48	894.8	139.0	445.1	421.1	82.6	118.9	643.0	608.5	64.7	64.2	666.8	644.7	59.3	60.7	677.4	668.4	68.6	69.8
49	897.5	143.0	460.1	437.6	88.0	130.1	659.0	622.5	64.4	64.0	677.8	656.4	58.7	60.1	687.0	676.6	68.2	69.3
50	899.6	146.9	474.3	453.1	94.7	142.4	674.9	636.4	64.1	63.7	689.5	668.3	58.1	59.5	697.1	685.5	67.9	69.0
51	901.4	150.5	487.8	467.8	102.4	155.3	690.3	650.8	63.7	63.4	699.7	679.2	57.6	59.0	707.6	695.1	67.6	68.8
52	905.4	154.1	500.6	481.9	110.8	168.4	704.7	664.6	63.4	63.1	710.1	689.7	57.0	58.5	717.1	703.4	67.5	68.6
53	907.0	157.8	512.8	495.3	119.7	181.5	719.0	678.8	63.1	62.8	719.5	700.0	56.5	58.2	726.1	711.2	67.4	68.4
54	909.1	161.4	524.5	508.2	128.8	194.5	732.4	692.6	62.9	62.6	727.8	709.5	56.2	58.0	733.7	718.1	67.4	68.4
55	911.2	165.1	535.8	520.9	138.0	207.4	745.0	705.7	62.7	62.4	735.5	718.3	55.9	57.9	740.9	724.5	67.5	68.5
56	912.3	168.9	546.9	533.1	147.4	220.4	757.1	718.5	62.6	62.3	743.2	727.8	55.7	57.9	748.7	732.6	67.6	68.6
57	915.4	172.9	557.6	545.0	156.7	233.2	768.3	731.5	62.6	62.2	750.5	735.4	55.7	58.1	755.6	738.9	67.9	68.8

Table 24. Average Temperatures Measured in Assembly S-27, Steel Stud, 2x2 Gypsum Board Layers, Mineral Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/FL (Exp.) Av(26,27,30,31,34,35)	BL/SStd. (Exp.) Av(12,13,16,18)	BL/Cav. (Exp.) Av(22,23)	Md. SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(24,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
0	44.7	41.0	36.7	41.1	33.2	29.8	30.2	26.3	25.9
1	114.0	41.1	36.7	41.1	33.2	30.0	30.2	26.3	25.9
2	225.1	47.4	36.7	41.1	33.2	30.0	30.2	26.3	25.9
3	329.1	67.5	39.0	41.4	33.2	30.1	30.2	26.3	25.9
4	426.7	85.9	54.0	43.4	34.0	30.1	30.3	26.3	25.9
5	533.7	91.0	65.6	48.4	38.1	30.1	30.7	26.3	25.9
6	588.3	93.5	74.3	62.6	48.1	30.2	31.9	26.3	25.9
7	600.1	96.3	81.1	76.6	55.7	30.6	35.0	26.3	25.9
8	632.7	99.5	85.8	84.4	65.2	32.0	41.6	26.6	26.0
9	663.6	102.9	88.7	88.6	72.9	36.2	53.8	27.3	26.0
10	698.1	107.2	90.6	90.9	78.5	43.3	61.1	28.6	26.0
11	712.0	111.6	91.9	92.3	81.8	49.8	66.4	30.4	26.1
12	721.5	116.5	93.3	92.8	84.1	55.3	70.3	32.6	26.3
13	731.7	124.6	94.8	92.9	85.4	59.8	72.8	34.9	26.7
14	743.3	136.8	94.8	92.3	85.3	62.7	73.1	37.2	27.4
15	753.6	165.2	94.7	90.7	84.3	63.8	72.9	39.2	28.2
16	761.8	197.7	98.2	91.1	83.7	64.6	72.7	40.9	29.3
17	768.3	223.7	107.9	93.5	85.7	64.9	73.9	42.4	30.4
18	775.0	245.9	119.2	95.7	87.6	66.8	76.2	43.9	31.5
19	783.0	266.1	125.9	98.9	89.0	69.4	78.1	45.7	32.7
20	789.6	283.0	131.4	108.2	90.9	71.6	79.4	47.5	33.9
21	794.6	298.0	134.6	110.4	93.4	73.4	80.4	49.4	35.1
22	799.6	311.7	136.5	114.5	95.6	74.8	81.1	51.2	36.4
23	805.7	324.2	138.3	117.5	97.6	76.1	81.8	52.9	37.8
24	810.8	336.4	141.2	120.3	99.5	77.3	82.6	54.5	39.2
25	816.7	349.2	145.3	122.8	101.2	78.5	83.2	56.0	40.5
26	821.8	362.4	151.2	125.1	103.1	79.6	83.9	57.5	41.9
27	826.3	373.7	158.5	127.3	105.2	80.7	84.6	59.0	43.2
28	829.5	386.4	167.1	128.2	107.6	81.5	85.2	60.3	44.5
29	833.4	398.7	176.7	130.7	110.3	82.2	86.8	61.6	45.8
30	838.2	411.0	183.9	132.0	113.0	82.5	86.4	62.8	47.1
31	841.8	424.1	189.2	133.4	115.6	82.7	87.0	63.9	48.4
32	845.8	437.8	192.4	135.4	117.9	83.0	87.5	64.8	49.6
33	849.2	451.6	195.1	138.7	120.0	83.1	88.0	65.7	50.7
34	852.0	465.5	200.3	143.0	122.5	82.9	88.5	66.4	51.8
35	858.7	479.3	207.4	150.9	125.4	83.1	89.5	67.0	52.7
36	860.7	492.6	218.1	160.3	126.8	82.9	90.4	67.4	53.8
37	862.5	506.3	228.4	175.8	132.9	82.6	91.4	67.8	54.9
38	866.0	519.7	239.1	194.6	137.1	82.0	92.1	67.9	55.0
39	869.4	533.4	249.6	218.0	141.8	80.9	93.1	67.9	55.6
40	872.4	547.3	259.8	243.9	147.1	79.3	94.3	67.8	56.2
41	876.5	560.5	269.5	270.3	152.9	78.1	95.4	67.4	56.5
42	878.0	573.8	283.2	297.2	159.4	77.8	96.8	67.0	56.7
43	882.2	586.3	298.4	322.3	166.3	73.7	98.5	66.6	56.9
44	884.1	599.5	313.6	349.0	173.9	81.0	100.5	66.2	56.9
45	886.7	612.7	331.4	375.7	182.6	84.1	102.7	65.8	56.9
46	889.9	626.2	347.4	397.2	192.1	88.9	105.2	65.4	56.9
47	891.9	639.1	362.6	416.1	201.9	93.9	107.9	65.0	56.8
48	894.3	651.5	377.7	433.1	211.8	100.7	110.9	64.6	56.7
49	897.5	663.2	392.2	448.9	221.6	108.1	114.1	64.1	56.5
50	900.0	675.1	406.5	463.7	231.4	118.6	117.7	63.7	56.4
51	901.4	687.1	421.2	477.6	241.1	128.8	121.3	63.3	56.1
52	905.4	698.3	436.4	491.3	250.8	139.6	125.4	63.0	56.0
53	907.0	709.1	449.1	504.0	260.3	150.6	129.9	62.7	56.8
54	909.1	719.0	461.7	516.4	269.8	161.6	134.5	62.6	55.5
55	911.2	728.3	473.1	526.3	279.7	172.7	139.0	62.5	55.4
56	912.3	738.0	484.0	540.0	289.3	183.9	143.6	62.5	55.3
57	915.4	746.7	495.4	551.3	298.9	195.0	148.3	62.6	55.2

Table 24. Average Temperatures Measured in Assembly S-27, Steel Stud, 2x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/FL (Exp.) Av(26,27,30,31,34,35)	BL/SStd. (Exp.) Av(12,13,18,19)	BL/Cav. (Exp.) Av(22,23)	Mid. SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(13,34,35)
58	918.6	754.5	506.2	562.2	308.9	205.9	153.2	62.8	55.2
59	920.4	752.4	516.6	572.4	317.6	216.6	156.1	63.1	55.2
60	922.0	770.0	527.1	582.0	326.8	226.8	162.9	63.5	55.3
61	924.3	777.5	537.6	591.0	335.8	236.4	167.9	64.1	55.3
62	926.3	764.9	547.5	599.6	344.7	245.4	172.9	64.7	55.4
63	929.3	791.6	557.4	607.8	353.3	253.8	178.0	65.4	55.7
64	933.3	799.0	567.1	615.5	361.7	261.5	183.1	66.2	56.0
65	932.0	804.3	576.4	622.6	369.9	268.8	188.3	67.1	56.5
66	933.7	810.0	585.7	628.3	377.9	275.8	193.5	68.0	56.9
67	935.6	816.5	596.0	635.5	385.6	282.3	198.5	68.8	57.3
68	937.2	821.9	605.0	641.3	393.1	288.5	203.6	69.7	57.8
69	938.4	829.3	614.7	646.7	400.5	294.3	208.6	70.5	58.3
70	941.1	835.2	623.9	651.9	407.7	300.1	213.5	71.3	58.8
71	942.5	839.4	633.1	656.8	414.6	305.6	218.3	72.0	59.4
72	944.0	842.9	642.3	661.6	421.5	311.0	223.1	72.8	60.0
73	945.5	845.4	651.3	666.3	428.4	316.2	227.8	73.6	60.6
74	947.3	847.6	660.8	671.1	435.3	321.2	232.6	74.3	61.1
75	948.4	849.5	671.1	676.9	442.4	326.2	237.4	75.0	61.5
76	949.6	850.8	682.5	690.0	449.8	331.4	242.4	75.6	62.0
77	951.9	852.5	692.8	706.6	457.6	336.8	247.6	76.4	62.6
78	954.9	854.2	703.2	718.7	465.7	342.7	252.8	77.4	63.1
79	955.9	855.4	714.0	728.9	474.1	349.3	258.4	78.4	63.6
80	956.6	857.0	723.4	736.9	482.7	355.8	264.3	79.5	64.0
81	959.0	860.3	730.7	743.8	491.6	362.2	270.5	80.6	64.4
82	960.4	860.1	738.7	751.0	500.7	368.3	276.8	81.8	64.9
83	962.4	861.2	744.8	755.7	509.8	374.4	283.4	83.1	65.4
84	963.7	863.0	751.2	761.5	519.4	380.7	290.3	84.5	65.9
85	966.3	864.6	755.9	764.6	527.1	387.6	297.3	85.8	66.5
86	967.1	866.4	760.0	767.4	533.9	395.0	304.1	86.9	67.1
87	967.4	868.4	765.2	772.3	540.7	403.1	310.9	88.0	67.6
88	970.1	871.0	768.7	779.0	547.9	411.2	317.6	89.1	68.2
89	971.2	873.5	773.0	784.6	554.2	417.4	324.3	90.0	68.7
90	972.7	875.9	777.3	789.5	560.5	422.6	331.0	90.9	68.9
91	972.7	878.4	782.1	793.1	567.2	426.8	337.4	91.7	69.4
92	975.3	880.9	785.8	794.6	573.8	430.4	344.3	92.4	70.0
93	976.2	882.1	788.9	796.2	580.2	433.4	352.2	93.1	70.4
94	977.1	882.8	793.9	798.5	586.6	436.9	361.2	93.7	70.7
95	978.7	882.6	798.0	800.1	593.1	441.1	371.0	94.3	71.1
96	979.8	882.5	801.2	801.7	599.3	445.1	381.5	94.9	71.5
97	981.1	883.5	803.6	803.7	605.1	449.3	392.3	95.6	71.9
98	982.4	885.6	805.9	806.0	611.0	453.3	400.9	96.3	72.3
99	984.2	888.9	808.2	808.7	616.9	457.9	406.4	97.0	72.7
100	984.9	892.9	811.1	811.9	622.9	461.7	411.9	97.6	73.1
101	985.6	899.0	813.7	815.7	528.9	466.4	417.2	98.3	73.5
102	986.6	903.0	816.7	820.1	634.9	470.2	422.1	99.0	74.1
103	989.3	904.5	820.4	822.9	640.7	474.0	425.8	99.7	74.8
104	990.2	912.2	825.6	825.8	646.7	478.5	429.6	100.5	75.4
105	991.7	915.1	831.0	829.8	652.4	483.8	433.7	101.1	76.1
106	991.8	919.1	836.3	835.4	658.7	491.0	437.2	101.9	76.7
107	992.7	921.7	840.5	843.1	666.1	497.7	438.6	102.7	77.3
108	994.1	924.9	844.8	852.5	673.9	504.8	440.7	103.4	77.9
109	995.6	927.8	848.6	860.4	681.8	512.6	443.4	104.2	78.5
110	996.5	930.0	852.4	866.1	689.3	520.8	446.1	105.1	79.1
111	996.1	931.5	855.5	870.2	695.9	528.5	450.4	105.9	79.6
112	996.3	932.9	858.5	872.8	702.3	536.3	500.2	106.8	80.3
113	996.4	933.5	860.9	873.3	708.5	543.9	510.4	107.7	80.7
114	998.1	933.7	862.2	872.2	714.0	551.5	518.5	108.7	81.2
115	998.1	933.3	863.3	871.0	718.9	557.9	524.9	109.8	81.8

Table 24. Average Temperatures Measured in Assembly S-27, Steel Stud, 2x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/FL (Exp.) Av(26,27,30,31,34,35)	BL/SStd. (Exp.) Av(12,13,16,19)	BL/Cav. (Exp.) Av(22,23)	Mid. SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
116	1000.1	933.1	864.5	872.2	724.3	564.3	530.1	111.1	82.4
117	1002.6	933.8	865.2	873.7	729.1	569.7	534.5	112.6	83.0
118	1003.0	934.2	865.9	875.1	733.5	574.9	538.3	114.6	83.5
119	1002.9	935.7	867.0	877.6	738.0	580.3	540.9	117.1	84.0
120	1004.6	936.9	868.3	878.9	741.9	585.6	542.9	120.7	84.7
121	1005.2	938.5	869.3	882.1	744.7	590.7	545.5	124.3	85.4
122	1006.8	939.6	868.3	883.9	745.2	595.7	547.6	128.3	86.0
123	1006.0	940.9	868.7	885.7	746.6	600.6	549.0	133.4	86.8
124	1008.0	943.0	869.9	886.9	748.3	605.5	550.8	139.0	87.7
125	1007.9	945.1	872.0	885.8	749.7	610.6	552.8	144.6	88.8
126	1009.3	946.7	873.6	886.5	751.2	616.5	554.8	149.9	90.2
127	1008.1	947.7	874.0	887.0	752.3	621.6	558.8	154.7	91.6
128	1010.0	948.9	874.5	887.6	753.1	626.5	558.7	159.9	92.9
129	1009.9	950.7	875.6	888.5	754.5	632.0	560.4	167.7	94.2
130	1012.6	951.8	875.8	888.9	755.6	636.7	561.8	175.3	95.4
131	1011.7	953.3	877.2	889.6	756.7	641.5	563.3	182.7	96.6
132	1013.7	954.6	878.9	890.7	758.5	646.6	565.2	190.9	97.8
133	1013.7	955.0	879.4	891.3	759.7	650.1	566.9	199.9	99.2
134	1014.2	955.4	880.7	892.0	761.0	653.8	568.7	207.4	100.4
135	1015.5	956.4	882.3	892.9	762.2	657.1	570.5	214.4	101.5
136	1015.6	957.7	884.0	894.0	763.6	660.8	572.5	221.5	102.2
137	1016.5	958.4	885.4	895.1	765.0	664.0	574.6	228.6	103.2
138	1017.3	959.3	887.0	896.3	766.5	667.2	577.1	235.6	103.9
139	1018.4	960.4	888.6	897.6	768.0	670.5	579.5	242.4	104.6
140	1018.6	961.4	890.4	899.3	769.8	673.9	582.2	249.3	105.3
141	1019.8	961.9	892.0	900.7	771.7	677.1	584.8	256.2	105.9
142	1019.4	962.8	893.8	902.4	773.6	680.4	587.7	263.1	106.4
143	1020.3	964.7	896.0	904.4	776.0	684.0	590.9	269.6	107.0
144	1021.9	965.7	897.0	905.5	777.9	687.1	597.8	276.0	107.6
145	1021.1	967.0	909.2	907.3	780.0	690.3	608.6	282.3	108.2
146	1023.6	968.2	900.5	908.8	782.3	693.5	621.2	298.7	108.7
147	1023.8	969.1	902.0	910.7	784.4	696.8	625.4	294.9	109.4
148	1024.5	969.8	903.4	911.8	786.5	699.7	628.4	301.0	110.0
149	1025.3	970.2	904.5	913.3	788.5	702.5	631.1	307.4	110.7
150	1025.6	970.7	906.1	914.8	780.6	705.6	632.9	314.0	111.5
151	1026.2	971.4	907.9	916.6	793.0	708.7	646.3	320.7	112.2
152	1027.0	972.4	909.4	918.6	795.5	711.9	661.6	327.8	113.3
153	1027.5	972.8	910.4	919.7	797.6	714.9	666.1	334.8	114.9
154	1028.4	973.7	911.3	921.2	799.6	717.7	669.0	341.6	116.6
155	1029.8	975.3	913.1	923.3	801.9	720.7	677.1	348.0	119.8
156	1028.7	976.2	915.1	924.6	804.2	723.8	680.5	354.0	124.0
157	1030.3	977.8	917.8	926.0	807.1	726.8	686.8	359.8	127.9
158	1031.4	978.6	918.3	927.9	809.6	730.0	690.6	365.6	135.1
159	1032.1	979.7	919.4	929.5	812.0	733.2	693.5	372.1	142.3
160	1031.6	982.0	920.9	931.2	814.4	736.5	693.6	378.5	149.4
161	1033.7	982.0	923.4	933.1	817.5	739.0	688.4	385.2	157.1
162	1033.8	983.8	927.1	934.7	821.7	743.4	708.4	391.8	167.6

Table 25. Temperatures Measured in Assembly S-28, Wood Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	49.7	26.7	26.7	26.6	26.5	26.7	25.9	25.7	25.8	34.0	32.1	41.7	39.5	33.5	32.9	28.0	27.9	47.0	43.3	29.8	
1	111.5	26.7	26.8	26.6	26.5	26.8	25.9	25.7	25.8	34.0	32.1	41.7	39.5	33.5	33.0	28.0	27.9	47.2	43.4	29.8	
2	223.8	26.7	26.7	26.6	26.5	26.7	25.9	25.7	25.7	34.1	32.1	43.5	40.7	33.6	33.3	28.0	27.9	56.8	47.1	29.8	
3	328.8	26.7	26.8	26.6	26.5	26.7	26.0	26.0	25.8	35.3	32.6	53.1	46.9	35.5	37.1	28.0	27.9	82.9	68.5	30.1	
4	425.1	26.7	26.8	26.6	26.5	26.8	26.0	26.0	25.9	44.0	36.7	57.5	61.1	52.7	51.1	28.1	27.9	94.2	80.1	34.0	
5	534.4	26.7	26.8	26.6	26.5	26.7	25.9	26.0	25.8	25.9	61.4	57.4	96.4	78.2	76.8	72.5	28.4	28.0	96.5	95.8	49.4
6	569.1	26.7	26.8	26.6	26.5	26.8	25.9	25.9	25.8	76.2	76.3	97.4	84.8	84.3	82.3	28.9	28.1	103.1	97.6	62.7	
7	600.2	26.7	26.8	26.6	26.5	26.8	26.1	26.1	26.0	81.7	81.0	97.2	87.5	86.4	84.7	29.9	28.4	111.4	103.7	68.7	
8	632.4	26.7	27.0	26.8	26.7	27.0	26.2	26.1	25.9	26.3	83.8	84.1	97.0	90.8	87.3	86.8	31.3	29.1	117.5	110.2	71.9
9	664.3	26.8	27.3	27.3	27.2	27.3	26.2	26.4	26.0	26.3	85.2	87.1	97.1	93.3	87.9	88.6	33.4	30.1	121.2	115.2	74.1
10	699.5	26.8	27.7	28.0	27.9	27.8	26.2	26.8	26.0	26.4	86.0	88.9	97.1	94.9	88.1	89.5	35.9	31.4	123.4	118.0	76.0
11	711.8	26.9	28.3	29.2	28.9	28.5	26.4	27.4	26.5	27.1	86.3	89.6	97.1	95.6	87.9	89.8	38.5	33.0	126.0	119.8	77.4
12	720.7	27.0	29.0	30.6	30.2	29.3	26.7	28.1	26.4	27.5	85.9	89.6	97.5	95.9	86.7	89.6	41.2	34.8	135.3	121.9	78.1
13	732.4	27.1	29.9	32.3	31.7	30.5	26.8	28.7	26.5	27.7	88.8	98.8	96.7	84.7	89.0	43.4	36.8	163.2	128.7	77.9	
14	742.9	27.3	31.0	34.3	33.3	31.8	27.1	29.4	26.8	28.7	82.4	87.2	106.4	100.9	78.8	88.6	44.8	38.6	239.9	150.1	75.7
15	754.0	27.5	32.2	36.4	35.1	33.2	27.5	30.3	27.2	29.3	80.4	83.9	132.1	118.6	76.8	86.1	46.2	40.5	330.9	216.3	73.7
16	761.8	27.7	33.4	38.3	36.8	34.6	28.0	30.7	27.6	30.0	81.0	84.2	172.0	152.3	76.3	83.9	47.5	42.2	404.6	300.4	73.7
17	768.6	28.1	34.6	40.1	38.3	36.1	28.5	32.0	27.9	30.6	80.5	82.4	210.4	201.0	78.8	98.7	48.5	43.6	453.1	375.2	72.6
18	775.5	28.4	35.7	41.6	39.6	37.5	28.7	33.2	28.7	31.8	83.3	86.2	248.0	238.1	85.8	116.9	49.4	45.0	491.8	425.3	77.7
19	782.2	28.9	36.8	42.9	40.7	38.8	28.8	32.4	28.6	31.2	91.9	89.0	284.2	273.2	97.9	136.8	50.1	46.2	525.9	466.4	88.7
20	789.0	29.3	37.8	44.0	41.5	40.0	29.6	33.4	28.9	31.7	98.6	92.6	314.5	304.9	115.6	140.4	50.9	47.2	555.4	503.5	107.5
21	794.8	29.8	38.9	45.0	42.3	41.0	29.9	33.9	29.4	32.3	107.9	99.8	337.1	328.4	129.9	150.0	51.7	48.3	580.0	535.5	127.0
22	800.2	30.3	40.0	45.8	43.0	42.0	30.1	33.8	29.4	31.6	121.5	112.2	362.9	352.5	143.8	164.1	52.8	49.4	600.6	562.2	144.8
23	805.2	30.8	41.1	46.7	43.6	43.0	30.5	35.2	30.0	32.5	132.9	128.4	389.2	372.1	154.7	181.5	54.0	50.5	617.7	584.3	159.7
24	810.8	31.3	42.4	47.6	44.3	44.0	30.7	34.3	30.1	32.2	144.5	146.4	415.2	393.8	166.6	198.6	55.5	51.7	632.1	602.9	171.9
25	816.1	31.9	43.8	48.8	45.1	45.0	30.9	34.5	31.0	33.1	156.1	163.7	440.0	419.0	178.3	214.7	57.0	52.9	643.7	617.8	181.9
26	820.3	32.4	45.4	50.0	46.0	46.2	31.4	35.4	30.6	33.5	167.4	180.9	466.2	444.2	188.8	231.0	58.7	54.2	654.4	630.4	190.6
27	825.3	32.9	47.1	51.4	47.0	47.4	32.0	36.9	32.1	35.2	178.3	196.3	487.4	468.2	199.3	247.1	60.4	55.5	662.8	640.2	198.5
28	829.1	33.5	48.9	53.0	48.3	48.6	32.1	36.7	31.5	35.2	190.5	209.9	504.0	484.5	210.2	261.2	62.1	57.0	670.6	648.7	206.0
29	833.3	34.0	50.7	54.5	49.7	49.9	32.4	37.5	32.4	35.3	201.6	225.0	518.4	501.2	221.6	282.5	63.8	58.4	678.6	656.4	213.3
30	838.4	34.7	52.5	56.0	51.2	51.1	33.0	38.4	32.8	36.7	212.2	238.6	529.5	511.2	236.5	291.8	65.5	59.8	686.4	664.4	220.2
31	841.7	35.3	54.2	57.4	52.8	52.9	33.7	40.0	32.6	36.2	221.8	247.8	541.4	526.8	251.1	304.1	67.2	61.4	693.8	672.6	226.9
32	845.0	36.0	55.7	58.8	54.1	53.4	34.4	40.3	33.3	36.8	231.0	253.8	549.1	540.8	267.4	312.9	68.7	63.1	700.4	681.2	232.7
33	849.4	36.7	57.2	60.2	55.4	54.4	35.0	41.4	34.1	37.9	239.2	256.3	561.6	550.8	280.0	320.8	70.3	64.8	705.1	688.2	237.7
34	852.2	37.5	58.7	61.7	56.5	55.3	34.4	39.5	33.1	36.1	246.9	261.9	573.2	559.5	292.5	331.6	72.0	66.5	709.9	695.1	242.2
35	857.3	38.4	60.1	63.1	57.6	56.2	35.6	42.3	34.0	37.8	255.6	268.4	585.1	570.6	302.9	344.5	73.5	68.1	714.7	700.2	246.4
36	860.4	39.2	61.4	64.4	58.6	57.0	36.8	44.2	35.0	39.4	264.0	276.9	596.3	579.7	312.6	350.9	74.8	69.8	719.9	704.8	250.7
37	863.9	40.2	62.7	65.7	59.6	57.9	36.6	43.8	35.8	38.9	273.0	286.5	605.9	588.5	322.9	358.0	76.1	71.5	724.5	708.8	254.9
38	866.1	41.2	63.8	66.8	60.6	58.7	37.0	44.4	35.6	39.6	282.0	295.8	609.9	592.9	332.4	364.3	77.1	73.2	727.8	712.2	259.2
39	869.5	42.2	64.9	67.7	61.7	59.7	37.7	44.7	35.8	39.5	291.4	306.7	618.0	606.8	340.4	374.4	78.2	75.1	730.2	715.2	263.4
40	873.0	43.3	65.8	68.6	62.7	60.4	38.1	45.6	36.5	40.3	301.5	316.6	623.2	614.9	348.7	382.9	79.3	77.0	733.5	717.5	267.2
41	876.1	44.5	66.8	69.5	63.8	61.1	38.4	45.8	37.6	41.2	309.6	324.4	628.8	621.8	357.1	391.0	80.4	79.0	736.8	719.3	271.2
42	878.7	45.7	67.6	70.1	64.7	61.9	38.3	45.3	36.8	40.8	319.9	331.4	636.4	629.2	366.2	398.4	81.6	80.9	740.6	722.4	275.1
43	881.9	46.9	68.3	70.8	65.7	62.5	39.2	46.6	37.8	40.9	329.8	340.9	644.7	634.4	375.1	405.5	82.7	82.7	743.7	724.4	279.2
44	884.2	48.2	68.8	71.3	66.4	63.2	39.7	47.4	38.2	42.0	341.3	350.8	652.8	639.6	383.5	411.9	83.7	84.3	746.7	728.0	283.4
45	887.3	49.4	69.4	71.8	67.1	63.9	40.7	48.0	38.9	43.1	353.0	359.5	659.4	644.6	392.0	417.0	84.5	85.9	749.6	730.6	287.6
46	889.8	50.8	70.0	72.3	67.8	64.5	40.7	48.0	39.1	43.5	365.0	367.0	666.6	646.7	399.9	422.9	85.3	87.4	751.8	732.9	291.9
47	892.0	52.1	70.6	72.9	68.5	65.2	41.2	47.9	39.9	44.6	376.8	376.0	672.8	656.0	407.9	430.0	86.2	89.0	756.1	735.1	296.4
48	894.6	53.5	71.1	73.4	69.1	65.9	41.8	47.8	40.2	44.6	382.8	384.3	678.6	661.0	415.8	437.8	89.0	90.5	757.1	734.5	301.4
49	898.5	54.9	71.7	73.8	69.7	66.6	42.5	48.9	41.3	45.3	396.7	392.5	686.2	664.6	422.7	444.2	89.5	91.9	758.2	732.9	306.5
50	899.5	56.3	72.3	74.3	70.3	67.5	43.3	49.4	41.9	45.9	409.0	396.9	694.0	669.2	432.7	450.5	90.0	93.2	759.5		

Table 25. Temperatures Measured in Assembly S-28, Wood Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	917.6	66.0	77.2	78.8	75.0	72.9	45.1	49.1	45.2	47.5	492.3	456.3	727.0	703.9	503.3	493.6	95.8	89.4	772.2	735.5	365.9
59	920.5	67.0	77.8	79.5	75.5	45.6	50.9	45.5	48.3	503.5	465.8	732.4	707.0	510.9	499.2	96.8	100.0	775.0	735.1	375.4	
60	920.8	68.0	78.5	80.1	76.0	74.1	45.8	49.7	45.6	47.8	512.1	475.7	736.5	712.5	516.1	504.0	97.6	100.9	778.5	738.1	384.7
61	923.9	69.0	79.2	80.8	76.6	74.6	44.3	49.4	44.9	48.2	521.6	487.1	739.7	717.7	523.9	509.5	98.7	101.9	780.5	745.8	394.7
62	926.4	69.8	80.0	81.6	77.2	75.2	46.3	50.6	46.0	48.3	532.1	505.6	743.1	727.1	519.8	518.5	98.8	103.0	782.4	761.0	405.2
63	927.6	70.7	80.8	82.3	77.7	75.9	45.8	49.6	46.2	48.4	541.2	523.2	747.1	737.6	533.3	530.1	99.0	104.2	784.5	786.4	415.6
64	929.8	71.4	81.6	83.1	78.2	76.5	45.9	49.0	46.8	48.3	553.6	547.3	751.5	749.8	543.1	542.3	99.7	105.7	789.4	819.5	427.5
65	932.2	72.1	82.5	83.8	78.9	77.2	46.4	49.5	46.9	48.1	569.4	580.7	756.0	763.5	548.9	558.1	103.3	107.6	794.6	849.6	440.9
66	933.4	72.8	83.4	84.8	79.5	77.8	46.2	51.0	47.1	48.9	613.4	621.9	765.4	777.2	563.0	575.2	145.7	110.5	800.6	865.6	456.7
67	935.4	73.4	84.4	85.7	80.2	78.4	45.3	51.8	46.1	48.8	771.3	676.5	796.8	795.9	575.1	591.7	575.3	117.2	805.3	882.0	476.0
68	936.7	74.1	85.5	86.7	80.9	79.1	46.4	53.9	49.4	49.6	826.0	718.3	830.5	826.5	585.8	608.3	733.7	129.1	812.4	887.7	499.0
69	938.7	74.8	86.9	87.7	81.9	79.8	45.8	54.2	49.7	51.9	832.4	767.3	859.1	876.7	594.3	642.3	799.6	154.2	826.1	904.2	529.4
70	941.1	75.5	88.6	88.9	84.6	80.6	46.4	57.0	50.2	51.8	825.7	791.8	888.4	895.2	626.6	676.9	830.7	222.3	828.5	909.1	556.6
71	942.2	76.2	90.6	90.4	89.1	81.2	47.2	58.0	51.6	54.0	832.6	808.5	893.3	914.3	676.1	699.2	851.7	334.3	831.6	918.7	584.3
72	944.1	76.9	93.1	92.4	93.5	81.9	46.9	58.3	52.2	52.6	841.2	819.7	874.2	905.4	710.0	723.7	859.9	451.5	818.9	920.6	615.0
73	945.1	77.6	95.6	95.1	97.3	82.6	47.8	58.8	52.7	55.6	853.5	830.2	871.7	909.8	740.2	741.7	859.8	517.8	814.7	922.7	653.7
74	946.9	78.2	97.9	87.7	100.7	83.2	47.7	56.6	51.0	56.5	864.4	846.8	871.8	908.6	761.1	762.1	842.8	552.4	808.1	927.1	705.9
75	948.3	78.8	99.6	99.7	103.6	84.0	49.6	61.1	52.4	56.0	869.0	849.9	854.5	898.8	775.3	782.7	852.3	586.1	809.3	932.7	759.1
76	950.5	79.2	100.9	101.1	106.1	84.7	49.7	59.7	53.2	57.4	874.0	857.1	830.5	879.2	785.0	795.4	866.4	597.3	832.3	936.9	801.0
77	952.7	79.6	101.9	102.4	108.2	85.5	49.4	60.6	52.1	57.3	876.5	859.3	829.9	876.0	787.8	809.9	876.8	608.2	842.2	939.6	823.2
78	954.5	80.0	102.8	103.6	109.8	86.6	50.3	61.9	52.3	60.3	873.9	860.2	824.6	865.9	789.0	819.8	878.7	636.4	846.6	940.7	834.0
79	955.5	80.4	103.7	104.8	111.3	88.1	50.3	63.0	52.1	60.4	870.6	858.7	825.6	854.6	799.8	825.6	879.7	654.6	849.1	940.7	842.2
80	957.4	80.9	104.6	105.8	112.4	90.3	51.4	63.3	53.2	61.9	871.0	854.7	830.3	846.0	812.2	829.0	879.7	671.8	848.3	939.8	847.9
81	958.8	81.7	105.4	106.8	113.5	93.3	51.1	64.1	52.7	64.4	870.5	851.2	835.8	841.3	824.4	835.8	882.7	683.7	845.4	935.7	849.0
82	960.8	82.6	106.1	107.7	114.4	96.3	49.6	65.0	52.0	63.4	871.3	852.3	841.3	839.7	834.9	835.8	886.5	693.1	845.2	940.8	851.3
83	962.0	83.6	106.7	108.6	115.3	99.0	50.2	65.6	52.5	64.3	872.1	855.5	842.2	835.5	836.8	833.0	885.9	703.9	844.6	937.1	851.3
84	964.0	84.5	107.4	109.5	116.2	101.2	51.4	66.9	54.4	66.1	872.2	857.2	840.9	833.3	834.5	830.6	887.1	719.8	849.7	938.6	856.5
85	965.1	85.4	108.0	110.4	117.3	102.7	51.8	66.5	53.0	65.0	875.4	851.7	841.4	833.9	831.6	830.4	884.8	737.3	850.7	927.8	857.2
86	966.8	86.1	108.6	111.2	119.1	104.1	51.9	68.1	53.8	66.8	873.9	848.1	841.0	834.7	831.5	830.0	882.8	755.6	850.0	919.0	855.9
87	967.8	86.9	109.3	112.1	122.4	105.3	52.6	70.2	53.1	69.5	871.7	846.6	839.4	834.0	830.7	829.1	881.7	769.7	848.4	911.0	854.6
88	969.7	87.9	109.9	113.0	128.5	106.3	53.1	72.9	54.9	72.0	871.9	845.0	840.3	835.2	834.3	829.9	880.0	782.4	849.0	910.6	856.4
89	970.6	88.2	110.5	113.9	139.4	107.1	51.5	73.9	54.5	71.7	871.4	845.1	838.7	835.1	836.8	829.5	877.7	793.7	847.2	914.6	854.9
90	972.1	90.7	111.0	114.8	157.4	107.7	51.1	74.9	54.0	71.9	870.6	844.8	839.3	836.7	836.9	829.8	876.6	802.8	846.0	913.7	854.5
91	973.2	92.5	111.7	115.8	185.9	108.3	52.9	75.8	53.5	72.5	870.3	842.8	839.8	837.7	836.8	831.0	874.2	808.8	844.6	918.2	853.9
92	975.1	94.6	112.3	117.4	219.1	108.9	53.8	76.4	55.5	74.2	870.4	842.9	842.0	841.1	837.8	833.6	875.9	814.7	844.2	923.5	853.8
93	975.8	96.8	112.9	120.1	252.9	109.3	52.4	77.8	54.2	78.6	869.8	842.8	841.1	841.9	837.9	834.6	871.0	820.0	845.2	924.8	855.3
94	977.4	98.9	113.6	125.7	286.4	109.8	53.0	82.4	54.5	84.0	868.9	844.0	841.4	841.7	838.3	836.2	871.7	824.9	847.4	923.4	857.6
95	979.4	101.3	114.3	133.0	331.8	110.3	53.2	87.4	55.6	89.3	868.3	843.7	842.0	844.3	839.0	838.5	868.5	830.6	848.2	926.7	859.7
96	980.0	103.7	115.0	146.7	399.7	110.9	55.1	100.0	57.8	98.7	872.3	843.8	845.1	847.6	841.6	842.3	871.5	835.6	848.7	923.6	860.8

Table 25. Temperatures Measured in Assembly S-28, Wood Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																	
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	
0	49.7	28.7	46.8	44.2	29.8	29.3	***	***	27.2	26.8	***	***	26.8	26.7	***	***	27.0	26.7	
1	111.5	28.7	47.0	44.4	29.8	29.3	***	***	27.2	26.8	***	***	26.8	26.7	***	***	27.0	26.7	
2	223.8	28.7	58.1	49.9	29.8	29.3	***	***	27.2	26.8	***	***	26.8	26.7	***	***	27.1	26.7	
3	328.8	28.8	80.7	69.5	30.2	29.4	***	***	27.2	26.8	***	***	26.8	26.7	***	***	27.0	26.7	
4	425.1	32.8	92.4	87.5	33.8	31.5	***	***	27.2	26.8	***	***	26.9	26.7	***	***	27.1	26.7	
5	534.4	61.9	97.1	94.1	43.3	47.4	***	***	27.4	26.9	***	***	26.9	26.7	***	***	27.3	26.8	
6	569.1	79.9	103.9	99.5	52.3	65.9	***	***	28.2	27.4	***	***	26.9	26.8	***	***	28.0	27.3	
7	600.2	83.2	111.3	107.8	57.7	72.6	***	***	30.2	29.1	***	***	27.1	26.9	***	***	29.2	28.8	
8	632.4	84.5	116.7	114.3	61.3	76.3	***	***	32.9	31.8	***	***	27.4	27.2	***	***	30.8	31.5	
9	664.3	86.2	119.9	118.7	64.1	79.1	***	***	36.1	34.9	***	***	27.8	27.8	***	***	32.8	34.8	
10	699.5	88.0	122.1	121.4	66.5	80.8	***	***	39.4	38.3	***	***	28.4	28.5	***	***	34.9	38.7	
11	711.8	89.0	125.2	123.7	68.4	81.9	***	***	42.8	42.0	***	***	29.1	29.4	***	***	37.1	42.8	
12	720.7	89.2	134.6	127.2	69.9	82.5	***	***	46.0	45.9	***	***	30.0	30.5	***	***	39.3	46.9	
13	732.4	88.6	162.7	137.9	70.5	82.1	***	***	48.9	49.7	***	***	30.9	31.7	***	***	41.5	50.8	
14	742.9	86.0	241.0	173.7	69.5	79.8	***	***	51.3	52.8	***	***	32.0	33.1	***	***	43.4	53.8	
15	754.0	80.8	324.7	264.9	68.3	75.2	***	***	52.7	55.0	***	***	33.0	34.6	***	***	45.0	55.6	
16	761.8	80.1	398.0	355.2	69.1	76.9	***	***	53.5	56.0	***	***	34.0	36.2	***	***	46.0	56.2	
17	788.6	82.7	454.8	431.2	74.5	85.1	***	***	54.2	56.5	***	***	34.9	37.6	***	***	47.1	56.8	
18	775.5	82.6	495.9	479.1	89.0	96.8	***	***	54.7	56.9	***	***	35.8	38.8	***	***	48.1	57.4	
19	782.2	87.0	529.8	517.1	107.9	116.9	***	***	55.2	57.2	***	***	36.6	39.9	***	***	49.1	57.8	
20	789.0	98.1	558.4	548.9	128.1	137.2	***	***	56.0	57.3	***	***	37.5	40.8	***	***	50.5	58.5	
21	794.8	111.5	582.0	575.9	148.4	157.4	***	***	57.1	57.8	***	***	38.4	41.6	***	***	52.3	59.5	
22	800.2	126.2	601.4	598.0	166.1	175.4	***	***	58.6	58.6	***	***	39.3	42.5	***	***	54.4	61.0	
23	805.2	139.0	617.3	616.4	180.7	190.1	***	***	60.4	59.8	***	***	40.3	43.4	***	***	56.7	62.7	
24	810.8	150.3	630.6	632.0	192.8	201.5	***	***	62.3	61.5	***	***	41.3	44.3	***	***	59.1	64.8	
25	816.1	160.1	641.3	644.8	202.9	210.7	***	***	64.2	63.5	***	***	42.4	45.3	***	***	61.5	66.9	
26	820.3	169.2	651.3	657.3	211.9	218.9	***	***	66.0	65.6	***	***	43.6	46.3	***	***	63.9	69.0	
27	825.3	178.1	659.1	667.5	220.5	227.8	***	***	67.9	67.8	***	***	44.8	47.9	***	***	66.0	70.9	
28	829.1	186.8	666.4	677.3	228.9	238.9	***	***	69.6	69.9	***	***	46.1	48.6	***	***	67.9	72.5	
29	833.3	195.1	674.1	688.0	237.1	250.9	***	***	71.0	71.7	***	***	47.3	50.0	***	***	69.4	73.8	
30	838.4	203.2	681.7	699.4	245.1	261.2	***	***	72.0	73.2	***	***	48.6	51.5	***	***	70.7	75.0	
31	841.7	213.0	699.0	707.7	252.9	268.6	***	***	72.9	74.5	***	***	50.0	53.0	***	***	72.4	76.4	
32	845.0	221.7	695.8	714.6	260.4	274.0	***	***	73.7	75.6	***	***	51.4	54.5	***	***	75.1	78.1	
33	849.4	227.9	700.5	718.3	267.1	278.1	***	***	74.5	76.8	***	***	52.8	55.9	***	***	77.6	80.5	
34	852.2	232.7	704.1	722.8	273.5	282.6	***	***	76.2	78.5	***	***	54.2	57.5	***	***	79.7	82.8	
35	857.3	235.3	706.8	725.6	279.8	287.5	***	***	78.6	80.4	***	***	55.7	58.9	***	***	81.4	84.8	
36	860.4	236.0	708.8	728.7	286.3	292.6	***	***	80.5	82.2	***	***	57.2	60.3	***	***	82.9	86.5	
37	863.9	237.1	709.8	731.5	293.6	298.3	***	***	82.1	83.6	***	***	58.6	61.8	***	***	84.2	87.9	
38	866.1	238.6	711.2	734.1	301.7	304.6	***	***	83.1	84.8	***	***	60.0	63.1	***	***	85.3	89.0	
39	869.5	241.3	713.4	736.7	310.9	311.3	***	***	84.0	86.0	***	***	61.2	64.5	***	***	86.3	90.0	
40	873.0	244.4	715.0	739.3	320.9	318.6	***	***	84.9	86.9	***	***	62.5	66.0	***	***	87.2	90.9	
41	876.1	248.2	716.3	741.0	331.2	326.3	***	***	85.7	87.7	***	***	63.7	67.4	***	***	88.1	91.6	
42	878.7	253.3	716.8	743.0	342.1	334.5	***	***	86.5	88.3	***	***	65.0	68.9	***	***	89.0	92.4	
43	881.9	258.6	717.0	744.4	353.7	342.9	***	***	87.4	88.9	***	***	66.2	70.3	***	***	89.8	93.0	
44	884.2	264.8	716.5	747.1	365.7	352.0	***	***	88.2	89.5	***	***	67.5	71.7	***	***	90.6	93.7	
45	887.3	271.4	716.2	747.8	377.6	361.3	***	***	89.0	90.0	***	***	68.7	73.0	***	***	91.4	94.2	
46	889.8	278.1	715.9	748.8	389.8	370.7	***	***	90.0	90.4	***	***	69.9	74.2	***	***	92.2	94.8	
47	892.0	285.7	716.2	750.8	402.4	380.8	***	***	90.8	90.8	***	***	71.1	75.5	***	***	92.9	95.4	
48	894.6	294.1	715.5	753.1	415.6	391.2	***	***	91.9	91.6	***	***	72.2	76.5	***	***	93.7	96.0	
49	898.5	302.1	715.0	752.6	429.1	401.9	***	***	93.0	92.4	***	***	73.4	77.5	***	***	94.5	96.7	
50	899.5	310.9	715.5	753.4	442.6	413.2	***	***	94.0	93.2	***	***	74.6	78.5	***	***	95.3	97.4	
51	902.7	320.8	716.2	755.2	456.2	425.6	***	***	94.9	94.0	***	***	75.7	79.5	***	***	96.1	98.1	
52	904.9	332.4	717.1	755.9	470.5	438.8	***	***	95.6	94.8	***	***	76.6	80.4	***	***	97.0	98.9	
53	906.7	345.1	718.7	757.9	484.6	452.4	***	***	96.3	96.1	***	***	77.4	81.3	***	***	98.0	99.8	
54	908.6	358.4	720.7	758.8	498.7	466.4	***	***	96.9	97.2	***	***	78.1	82.1	***	***	99.0	100.8	
55	911.4	372.8	722.7	759.8	512.0	480.7	***	***	97.5	98.3	***	***	78.8	82.8	***	***	100.0	101.8	
56	914.1	368.7	724.5	760.3	524.8	495.8	***	***	98.1	99.4	***	***	79.4	83.4	***	***	100.9	102.9	
57	915.0	404.7	726.3	761.1	537.2	510.1	***	***	98.9	100.5	***	***	80.0	84.1	***	***	102.0	104.0	

Table 25. Temperatures Measured in Assembly S-28, Wood Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
58	917.6	420.8	728.4	763.4	548.9	525.9	***	***	99.7	101.6	***	***	80.6	84.7	***	***	103.0	105.1
59	920.5	436.5	729.2	764.3	560.6	540.8	***	***	100.7	102.6	***	***	81.1	85.4	***	***	104.1	106.2
60	920.8	452.0	728.9	764.2	572.0	553.1	***	***	101.8	103.7	***	***	81.6	86.0	***	***	105.2	107.3
61	923.9	467.4	730.6	767.0	584.4	567.5	***	***	102.7	104.8	***	***	82.1	86.6	***	***	106.3	108.3
62	926.4	489.6	734.3	776.4	597.4	588.9	***	***	103.6	105.8	***	***	82.5	87.0	***	***	107.5	109.3
63	927.6	531.0	738.5	789.5	611.7	616.6	***	***	104.4	106.9	***	***	82.8	87.2	***	***	108.8	110.3
64	929.6	648.3	740.8	793.7	625.6	640.7	***	***	105.2	108.1	***	***	83.1	87.8	***	***	110.5	111.4
65	932.2	770.5	744.3	801.4	639.6	664.3	***	***	106.1	109.5	***	***	83.3	88.6	***	***	112.8	112.5
66	933.4	841.5	748.0	805.5	665.3	685.6	***	***	107.0	111.3	***	***	83.3	89.5	***	***	115.8	113.9
67	935.4	870.6	749.8	811.0	672.0	707.8	***	***	107.9	114.4	***	***	83.4	90.4	***	***	120.0	115.7
68	936.7	881.0	750.5	813.6	691.1	730.5	***	***	108.9	119.8	***	***	83.5	91.5	***	***	125.3	118.2
69	938.7	891.5	752.3	840.5	715.2	766.8	***	***	110.0	130.8	***	***	83.8	92.5	***	***	131.7	122.3
70	941.1	890.0	763.2	842.4	739.4	789.6	***	***	111.2	166.0	***	***	84.3	93.1	***	***	141.1	127.7
71	942.2	891.8	775.7	840.8	756.9	791.6	***	***	112.5	204.7	***	***	84.9	93.0	***	***	149.2	131.1
72	944.1	889.4	795.2	844.3	773.3	802.5	***	***	114.2	229.2	***	***	85.9	93.6	***	***	157.9	141.3
73	945.1	884.5	809.8	845.6	793.2	814.2	***	***	116.5	256.7	***	***	86.9	94.2	***	***	165.6	152.2
74	946.9	879.5	819.8	847.0	803.7	816.8	***	***	119.8	288.1	***	***	88.0	94.9	***	***	171.0	168.1
75	948.3	875.4	819.8	844.1	809.3	818.9	***	***	124.0	319.8	***	***	89.2	95.7	***	***	176.8	181.6
76	950.5	868.0	816.0	847.8	810.4	816.8	***	***	127.6	347.6	***	***	90.4	96.2	***	***	184.1	192.3
77	952.7	860.4	825.2	845.2	820.1	826.4	***	***	136.7	358.7	***	***	91.3	96.0	***	***	193.9	204.9
78	954.5	853.1	829.6	838.2	829.5	827.5	***	***	149.7	370.1	***	***	91.9	96.1	***	***	203.7	221.1
79	955.5	850.6	834.6	833.9	834.4	826.6	***	***	163.8	384.2	***	***	92.4	96.8	***	***	212.4	237.5
80	957.4	850.6	839.4	833.8	839.5	828.1	***	***	186.3	398.8	***	***	92.8	97.8	***	***	220.1	251.7
81	958.8	851.1	841.5	834.3	841.9	833.4	***	***	199.2	417.2	***	***	93.4	99.1	***	***	228.5	266.7
82	960.8	856.0	839.3	835.1	841.1	834.8	***	***	210.2	435.7	***	***	93.9	100.4	***	***	237.4	282.6
83	962.0	858.7	835.4	832.4	837.9	832.2	***	***	221.7	452.9	***	***	94.3	101.3	***	***	246.8	298.7
84	964.0	858.7	832.4	827.6	835.6	829.5	***	***	233.2	469.8	***	***	95.3	102.5	***	***	256.2	315.6
85	965.1	872.0	828.5	824.7	831.6	827.1	***	***	245.1	486.8	***	***	96.1	102.8	***	***	265.9	334.8
86	966.8	872.8	825.2	823.6	830.6	826.4	***	***	255.9	502.7	***	***	96.7	103.2	***	***	275.5	353.3
87	967.8	872.5	822.9	821.9	828.3	825.5	***	***	266.2	516.8	***	***	97.1	105.5	***	***	284.6	369.8
88	969.7	874.8	822.2	821.9	828.3	825.6	***	***	276.5	530.9	***	***	97.4	107.1	***	***	293.4	385.6
89	970.8	874.0	820.2	820.6	827.1	824.7	***	***	286.9	544.5	***	***	97.8	108.5	***	***	302.4	400.8
90	972.1	873.8	819.0	820.2	826.4	824.4	***	***	297.8	559.0	***	***	98.2	110.0	***	***	312.3	417.1
91	973.2	873.3	817.6	820.4	826.4	824.7	***	***	310.1	573.6	***	***	98.6	111.7	***	***	321.7	432.9
92	975.1	874.9	818.4	820.8	826.8	826.3	***	***	322.4	588.2	***	***	99.1	114.5	***	***	330.4	447.3
93	975.8	876.8	818.1	821.3	827.1	826.9	***	***	332.5	604.6	***	***	99.6	117.6	***	***	338.3	461.5
94	977.4	879.1	819.0	822.7	828.9	827.6	***	***	341.3	621.5	***	***	100.2	121.4	***	***	346.1	475.4
95	979.4	881.4	820.5	824.0	830.5	830.3	***	***	349.6	638.6	***	***	101.0	126.9	***	***	353.1	489.3
96	980.0	884.1	823.3	826.8	833.2	834.1	***	***	357.4	654.7	***	***	101.5	136.3	***	***	360.4	503.7

Table 26. Temperatures Measured in Assembly S-28, Wood Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(18,19,22,23)	BL/Std. (Exp.) Av(12,13)	Mid Std. Av(10,11,14,15)	BL/Cav. (UnExp.) Av(20,21,24,25)	BL/Std. (UnExp.) Av(16,17)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
0	49.7	45.3	40.6	33.1	29.4	27.9	26.9	26.6
1	111.5	45.5	40.6	33.1	29.4	27.9	26.9	26.7
2	223.8	53.0	42.1	33.3	29.4	27.9	26.9	26.6
3	328.8	75.4	50.0	35.1	29.6	28.0	26.9	26.6
4	425.1	91.1	74.3	46.1	33.0	28.0	26.9	26.7
5	534.4	95.9	87.3	67.0	50.5	28.2	27.0	26.7
6	569.1	101.0	91.1	79.8	65.2	28.5	27.4	26.7
7	600.2	108.5	92.4	83.5	70.6	29.2	28.5	26.7
8	632.4	114.7	93.9	85.5	73.5	30.2	30.3	26.9
9	664.3	118.8	95.2	87.2	75.9	31.7	32.4	27.1
10	699.5	121.2	96.0	88.1	77.8	33.6	34.7	27.6
11	711.8	123.7	96.3	88.4	79.2	35.8	37.2	28.3
12	720.7	129.8	96.7	88.0	79.9	38.0	39.8	29.2
13	732.4	148.1	97.8	86.8	79.8	40.1	42.2	30.3
14	742.9	201.2	103.6	84.2	77.8	41.7	44.4	31.5
15	754.0	284.2	125.3	81.8	74.5	43.3	46.0	32.9
16	761.8	364.5	162.2	81.4	74.9	44.8	47.0	34.2
17	768.6	428.6	205.7	85.1	78.7	46.1	47.8	35.4
18	775.5	473.0	243.1	93.1	86.5	47.2	48.6	36.6
19	782.2	509.8	278.7	103.9	100.1	48.2	49.3	37.6
20	789.0	541.6	309.7	111.8	117.7	49.0	50.1	38.5
21	794.8	568.3	332.7	121.9	136.1	50.0	51.1	39.4
22	800.2	590.5	357.7	135.4	153.1	51.1	52.4	40.2
23	805.2	608.9	380.7	149.4	167.4	52.3	53.9	41.0
24	810.8	624.4	404.5	164.0	179.1	53.6	55.6	41.9
25	816.1	636.9	429.5	178.2	188.9	55.0	57.3	42.9
26	820.3	648.4	455.2	192.0	197.7	56.5	59.1	44.0
27	825.3	657.4	477.8	205.3	206.2	58.0	60.8	45.2
28	829.1	665.8	494.2	217.9	215.2	59.5	62.4	46.5
29	833.3	674.3	509.8	232.7	224.1	61.1	63.9	47.8
30	838.4	683.0	520.3	244.8	232.4	62.7	65.2	49.1
31	841.7	690.8	534.1	256.2	240.3	64.3	66.5	50.4
32	845.0	698.0	545.0	266.3	247.2	65.9	68.1	51.6
33	849.4	703.1	556.2	274.1	252.7	67.5	69.7	52.8
34	852.2	708.0	566.3	283.3	257.7	69.2	71.5	53.9
35	857.3	711.8	577.9	292.8	262.2	70.8	73.3	55.1
36	860.4	715.5	588.0	301.1	266.4	72.3	74.9	56.1
37	863.9	718.6	597.2	310.1	271.0	73.8	76.3	57.2
38	866.1	721.3	601.4	318.6	276.0	75.1	77.6	58.2
39	869.5	723.9	612.4	328.2	281.7	76.6	78.7	59.3
40	873.0	726.3	619.0	337.4	287.7	78.2	79.7	60.2
41	876.1	728.4	625.3	345.5	294.2	79.7	80.7	61.2
42	878.7	730.7	632.8	354.0	301.3	81.3	81.7	62.0
43	881.9	732.4	639.5	362.8	308.6	82.7	82.6	62.8
44	884.2	734.6	646.2	371.8	316.5	84.0	83.5	63.6
45	887.3	736.1	652.0	380.4	324.5	85.2	84.4	64.3
46	889.8	737.3	656.6	388.7	332.6	86.4	85.3	65.1
47	892.0	739.3	664.4	397.7	341.3	87.6	86.1	65.8
48	894.6	740.1	669.8	405.2	350.6	89.7	87.0	66.6
49	898.5	739.7	675.4	414.1	359.9	90.7	87.9	67.3
50	899.5	740.1	681.6	422.2	369.6	91.6	88.8	68.1
51	902.7	741.1	687.0	431.7	379.9	92.7	89.7	68.9
52	904.9	742.1	692.2	440.7	391.1	93.6	90.6	69.7
53	906.7	743.1	697.5	449.5	402.7	94.5	91.5	70.4
54	908.6	745.0	702.4	457.7	414.7	94.9	92.3	71.1
55	911.4	746.0	706.9	462.9	426.9	95.6	93.2	71.9
56	914.1	747.1	710.3	469.3	439.7	96.2	94.0	72.6
57	915.0	748.2	712.3	477.8	452.4	97.0	94.9	73.2

Table 26. Temperatures Measured in Assembly S-28, Wood Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(18,19,22,23)	BL/Std. (Exp.) Av(12,13)	Mid Std. Av(10,11,14,15)	BL/Cav. (UnExp.) Av(20,21,24,25)	BL/Std. (UnExp.) Av(16,17)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
58	917.6	749.9	715.4	488.4	465.4	97.7	95.8	74.0
59	920.5	750.9	719.7	494.8	478.3	98.4	96.7	74.7
60	920.8	752.4	724.5	502.0	490.4	99.2	97.6	75.4
61	923.9	756.0	728.7	510.5	503.5	100.3	98.5	76.0
62	926.4	763.5	735.1	519.0	520.3	100.9	98.3	76.8
63	927.6	774.7	742.4	532.0	543.7	101.6	100.1	77.5
64	929.6	785.8	750.6	546.6	585.5	102.7	101.0	78.2
65	932.2	797.5	759.8	564.3	628.8	105.5	102.1	78.9
66	933.4	804.9	771.3	593.4	659.8	128.1	103.5	79.7
67	935.4	812.0	796.3	659.6	691.6	346.3	105.3	80.4
68	936.7	816.0	828.5	684.6	700.4	431.4	107.9	81.3
69	938.7	830.8	872.9	709.1	725.5	476.9	111.9	82.2
70	941.1	835.8	891.8	730.3	743.9	526.5	120.6	83.6
71	942.2	841.7	903.8	754.1	756.1	593.0	129.2	85.5
72	944.1	844.8	889.8	773.6	770.1	655.7	137.0	87.6
73	945.1	848.2	890.8	791.4	786.4	688.8	145.4	89.6
74	946.9	850.5	890.2	808.6	801.5	697.6	155.0	91.6
75	948.3	851.5	876.6	819.2	815.7	719.2	164.5	93.1
76	950.5	858.2	854.9	827.9	824.0	731.8	173.0	94.4
77	952.7	863.1	850.0	833.4	832.5	742.5	180.2	95.5
78	954.5	863.8	845.2	835.7	836.0	757.6	188.8	96.6
79	955.5	864.6	840.1	838.7	838.4	767.2	197.8	97.6
80	957.4	865.3	838.1	841.7	841.5	775.7	207.9	98.8
81	958.8	864.3	838.6	845.7	843.8	783.2	217.4	100.1
82	960.8	865.1	840.5	848.6	845.8	789.8	226.7	101.4
83	962.0	862.4	838.8	849.4	845.3	794.9	236.0	102.6
84	964.0	862.1	837.1	848.6	847.6	803.5	245.4	103.7
85	965.1	857.9	837.6	847.3	847.0	811.0	255.2	104.8
86	966.8	854.5	837.8	845.9	846.4	819.2	264.5	105.8
87	967.8	851.1	836.7	844.5	845.2	825.7	273.3	107.2
88	969.7	850.9	837.7	845.3	846.3	831.2	281.8	109.1
89	970.6	850.7	836.9	845.7	845.2	836.7	290.2	112.0
90	972.1	849.7	838.0	845.5	844.8	839.2	299.1	116.3
91	973.2	850.2	838.8	845.2	844.6	841.5	308.1	122.9
92	975.1	851.7	841.5	846.2	845.4	845.3	317.0	130.5
93	975.8	852.4	841.5	846.3	846.5	845.5	325.7	138.4
94	977.4	853.1	841.5	846.6	848.3	848.3	334.3	146.9
95	979.4	854.9	843.1	847.4	850.5	849.5	343.1	158.1
96	980.0	855.6	846.3	850.0	859.0	853.6	352.4	175.2

Table 27. Temperatures Measured in Assembly S-29, Wood Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	46.5	26.6	26.7	26.4	26.4	26.6	26.1	25.9	25.9	25.9	32.6	30.5	38.7	35.5	31.8	30.1	28.0	27.2	42.1	39.5	28.4
1	112.0	26.6	26.7	26.3	26.4	26.6	26.1	25.7	25.7	25.8	32.6	30.5	38.7	35.4	31.8	30.1	28.0	27.2	42.2	39.6	28.4
2	223.9	26.6	26.7	26.3	26.4	26.6	26.2	26.0	26.0	26.0	32.7	30.6	40.9	36.6	31.9	30.2	28.0	27.2	48.1	42.3	28.5
3	328.2	26.7	26.7	26.4	26.4	26.6	26.4	26.2	26.1	26.2	34.9	31.0	54.4	41.7	33.4	30.3	28.0	27.3	72.4	63.4	28.7
4	428.9	26.7	26.7	26.4	26.4	26.7	26.4	26.3	26.2	26.3	50.2	32.8	84.1	54.5	50.9	30.7	28.1	27.3	88.6	84.3	29.4
5	533.9	26.7	26.7	26.4	26.4	26.7	26.5	26.3	26.3	26.2	80.7	44.0	93.6	69.9	79.8	32.1	28.2	27.4	93.0	90.9	36.1
6	568.0	26.7	26.8	26.4	26.4	26.7	26.3	26.1	26.0	26.3	88.7	66.2	94.9	78.5	86.6	37.6	29.0	28.0	96.3	92.7	51.5
7	600.3	26.7	26.8	26.4	26.5	26.8	26.2	25.8	25.8	25.9	90.3	76.1	95.0	83.9	88.6	45.3	30.3	29.3	103.3	97.8	60.4
8	631.0	26.7	26.9	26.4	26.5	26.8	26.5	26.1	26.0	26.2	91.2	82.2	95.2	89.0	89.8	53.1	32.4	31.8	109.4	104.1	65.2
9	664.9	26.7	27.3	26.5	26.6	27.2	26.7	26.1	26.1	26.4	91.6	86.7	95.2	92.9	90.3	61.7	35.0	35.4	113.2	109.3	68.4
10	699.0	26.8	28.1	26.6	26.8	27.7	27.1	26.2	26.1	26.5	91.8	89.3	96.5	95.6	90.5	67.8	37.8	39.9	115.5	112.6	70.8
11	711.5	26.8	29.2	26.9	27.2	28.5	27.3	26.2	26.1	26.4	91.6	90.0	97.5	97.0	90.4	72.4	40.8	44.8	118.1	115.6	72.5
12	721.4	26.9	30.6	27.3	27.8	29.5	28.1	26.7	26.6	27.4	90.9	90.1	97.7	97.7	89.6	74.8	43.8	48.9	123.8	119.1	73.5
13	732.5	27.0	32.4	27.8	28.7	30.8	28.7	26.8	26.7	27.2	89.8	89.5	96.5	98.0	88.4	75.5	46.5	51.5	138.0	128.1	73.8
14	742.9	27.2	34.3	28.5	29.8	32.3	29.3	27.1	27.3	27.4	87.9	87.5	104.5	98.8	85.3	74.7	49.0	52.0	193.6	150.8	72.9
15	754.0	27.5	36.3	29.3	31.2	33.8	30.1	27.2	27.4	27.7	86.2	84.1	138.5	107.6	93.7	70.5	51.2	52.0	273.7	217.1	71.0
16	762.2	27.8	38.3	30.2	32.8	35.4	30.7	27.6	27.9	28.0	85.2	83.5	189.5	131.1	83.8	68.3	53.1	53.0	348.0	293.8	70.3
17	768.8	28.2	40.1	31.2	34.4	37.0	31.5	28.1	28.6	28.5	83.5	85.8	234.6	176.9	81.9	71.7	54.6	53.7	418.2	369.5	69.0
18	775.5	28.6	41.7	32.3	36.0	38.4	31.6	28.3	28.8	28.5	82.9	84.0	275.4	217.0	80.8	70.8	55.8	53.9	465.9	425.5	67.6
19	782.1	29.2	43.1	33.3	37.4	39.7	32.3	28.6	29.2	29.9	82.3	82.2	313.1	253.3	80.4	69.2	56.9	54.1	504.4	466.1	66.6
20	789.0	29.7	44.1	34.3	38.7	40.7	32.6	28.7	28.4	29.2	83.4	82.7	339.6	292.5	82.3	68.7	57.7	54.4	536.9	501.1	66.0
21	795.0	30.3	45.0	35.3	39.9	41.7	32.7	28.9	29.7	29.4	86.3	84.1	365.5	329.6	82.4	69.5	58.4	54.3	565.4	531.6	65.8
22	799.5	30.8	45.7	36.1	40.8	42.4	32.8	28.8	29.8	29.5	91.2	88.3	393.6	358.9	84.4	71.4	59.1	54.5	590.2	558.8	66.9
23	805.7	31.5	46.2	36.8	41.7	43.0	32.7	29.1	29.9	29.8	102.8	95.7	419.2	387.8	87.7	73.3	59.7	55.2	610.8	582.6	74.6
24	810.7	32.1	46.7	37.5	42.5	43.5	32.4	29.0	30.3	29.5	116.4	110.9	448.4	417.6	93.0	75.6	60.4	56.2	628.0	603.1	87.5
25	815.8	32.6	47.0	38.2	43.1	44.0	33.1	29.4	30.0	29.9	129.1	136.3	477.7	456.9	103.5	79.0	61.0	57.7	642.7	620.4	100.1
26	821.2	33.2	47.3	38.8	43.8	44.5	32.5	28.6	29.8	29.6	141.3	177.6	517.2	492.8	114.9	84.2	61.8	59.9	655.2	635.0	112.4
27	825.8	33.7	47.5	39.4	44.5	44.9	33.1	29.3	30.1	30.0	153.3	210.6	551.6	514.5	125.5	91.5	62.5	62.1	666.1	647.3	124.3
28	828.2	34.3	47.9	40.0	45.3	45.4	33.8	29.3	30.3	30.2	164.9	230.8	571.7	532.9	135.0	100.3	63.2	63.7	676.7	658.0	135.0
29	832.9	34.8	48.3	40.6	46.1	46.0	33.8	29.3	30.5	30.3	175.3	235.8	588.5	545.7	143.8	109.1	63.9	64.6	687.1	667.9	144.6
30	837.9	35.3	48.9	41.4	47.1	46.7	34.5	29.6	30.9	30.4	185.7	242.1	598.4	555.5	152.2	117.4	64.7	65.2	697.6	677.6	153.1
31	842.2	35.9	49.7	42.3	48.2	47.5	34.0	29.9	30.8	30.5	196.0	248.9	603.7	562.1	160.1	125.3	65.4	65.9	707.5	686.2	161.1
32	845.9	36.5	50.5	43.3	49.3	48.4	34.1	29.4	31.0	30.2	206.5	252.8	607.6	568.4	168.2	133.4	66.2	66.6	717.3	695.1	169.7
33	850.0	37.1	51.5	44.6	50.6	49.4	34.3	30.1	31.4	30.7	217.6	253.5	613.1	578.2	176.6	140.3	67.1	67.3	726.8	703.1	177.4
34	853.0	37.7	52.6	46.0	52.0	50.5	34.8	30.4	31.5	31.0	228.6	255.4	616.4	586.3	185.3	148.0	68.0	68.1	736.9	711.1	184.7
35	857.2	38.4	53.8	47.5	53.4	51.8	35.7	31.1	32.0	31.8	239.7	255.1	624.8	590.2	194.1	155.3	69.0	69.0	747.1	717.5	191.9
36	860.7	39.1	55.0	49.1	54.8	53.0	34.9	30.8	32.5	31.2	251.5	256.6	625.4	596.2	202.6	162.7	70.0	69.8	758.4	723.9	198.9
37	863.4	39.9	56.2	50.7	56.1	54.1	35.6	31.0	31.8	31.8	262.3	259.6	629.6	604.1	211.0	170.3	71.1	70.5	770.7	730.0	206.1
38	866.7	40.7	57.4	52.3	57.2	55.3	36.1	31.6	32.5	32.5	272.6	263.3	636.8	613.7	219.6	177.9	72.3	71.3	782.5	735.9	213.0
39	869.6	41.5	58.5	53.8	58.3	56.4	36.3	31.5	33.1	32.5	282.9	267.3	644.2	622.9	228.5	185.6	73.6	72.0	791.8	741.7	219.4
40	873.3	42.4	59.6	55.3	59.4	57.4	36.7	32.3	32.5	32.8	294.0	272.3	652.8	631.4	237.3	193.3	74.8	72.8	798.4	747.3	225.7
41	876.0	43.3	60.6	56.6	60.4	58.5	36.6	32.0	33.5	32.7	305.6	277.4	660.0	638.7	244.9	201.4	76.2	73.5	803.0	752.4	232.8
42	878.2	44.2	61.5	57.8	61.5	59.5	36.7	32.2	33.3	33.5	316.6	282.6	668.9	646.3	252.8	209.7	77.7	74.2	805.9	756.3	240.5
43	881.8	45.1	62.4	59.0	62.6	60.6	37.1	32.5	33.2	34.0	328.3	288.2	678.8	655.4	260.8	218.2	79.2	74.9	810.6	759.7	248.6
44	884.1	46.1	63.4	60.0	63.6	61.7	37.0	32.0	33.4	34.0	339.5	294.2	689.5	661.6	268.7	226.9	80.7	75.8	817.2	762.9	256.8
45	886.4	47.0	64.3	61.0	64.6	62.9	37.1	32.7	33.5	34.6	353.3	301.5	697.6	669.9	277.2	235.7	82.3	76.8	822.6	766.3	265.5
46	890.0	48.0	65.2	61.9	65.5	64.0	39.1	35.4	36.1	35.4	363.7	309.9	706.9	677.4	286.0	244.3	84.1	77.9	809.7	768.9	274.4
47	892.1	48.9	66.1	62.8	66.3	65.2	38.7	34.8	34.0	35.6	373.1	317.6	713.4	684.7	295.0	252.9	86.3	78.9	808.3	771.5	283.4
48	895.1	49.8	66.9	63.7	66.8	66.2	39.5	34.5	34.3	35.8	385.3	325.1	719.5	691.2	304.3	262.1	89.0	80.0	807.6	772.7	290.4
49	896.4	50.6	67.6	64.4	67.4	67.0	38.7	34.1	34.3	35.7	394.1	332.6	724.8	697.1	313.5	271.4	92.0	81.3	807.6	772.4	296.8
50	900.6	51.5	68.3	65.3	67.9	67.9	40.2	35.5	35.2	37.0	401.6	339.6	732.5	707.7	323.8	280.9	95.9	82.5	809.1	772.0	304.1

Table 27. Temperatures Measured in Assembly S-29, Wood Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	918.5	58.2	72.4	68.6	70.0	71.6	42.8	37.6	36.6	38.9	482.9	396.9	774.7	707.7	421.5	343.3	100.6	94.9	827.6	775.0	335.1
59	919.9	59.0	73.0	68.9	70.1	71.8	41.9	36.8	35.7	38.4	493.5	404.5	781.4	705.2	443.8	352.6	102.0	96.7	831.7	776.3	341.0
60	921.7	59.8	73.7	69.3	70.3	72.1	43.3	37.7	36.6	38.3	504.8	411.4	790.4	707.1	496.4	362.5	104.2	98.6	835.9	777.8	346.6
61	923.8	60.5	74.4	69.7	70.5	72.4	43.3	37.7	36.8	39.1	517.4	417.7	798.4	708.1	561.7	371.0	106.6	100.9	840.4	779.7	351.8
62	925.9	61.2	75.2	70.2	70.7	72.7	44.1	38.2	36.8	39.1	529.7	424.8	805.3	710.2	622.1	380.4	109.2	103.9	845.8	781.9	359.4
63	927.8	62.0	76.0	70.8	71.0	73.2	42.9	36.9	37.0	39.1	541.0	431.5	818.8	712.4	669.9	390.9	111.8	107.4	851.3	784.4	367.4
64	930.0	62.7	76.8	71.5	71.3	73.7	43.9	37.7	37.1	40.1	552.0	438.4	816.8	714.0	705.7	402.1	114.7	111.9	856.2	787.3	375.8
65	931.9	63.4	77.7	72.2	71.8	74.2	45.5	39.6	37.7	40.2	562.9	443.0	823.2	716.1	731.1	414.7	118.2	117.7	861.5	790.3	384.5
66	933.4	64.2	78.6	73.0	72.3	74.9	45.6	40.3	38.6	40.2	574.0	448.2	827.8	718.2	747.4	427.9	122.2	125.4	866.2	793.5	393.3
67	935.7	64.9	79.4	73.6	72.7	75.6	43.5	36.6	37.9	38.9	585.0	454.7	834.3	719.7	758.8	442.6	126.5	135.6	871.2	796.4	402.5
68	937.9	65.7	80.2	74.3	73.3	76.2	44.2	38.7	37.9	39.1	595.9	457.7	838.4	718.8	765.3	460.1	131.4	147.7	876.3	799.3	411.8
69	938.6	66.5	80.9	75.0	74.0	76.9	45.5	37.6	37.1	40.1	606.1	462.2	839.8	721.4	769.4	477.2	135.8	160.9	881.3	802.0	421.4
70	941.5	67.1	81.7	75.7	74.6	77.5	44.4	37.1	37.6	39.6	616.2	469.6	841.1	722.5	770.9	490.8	139.3	174.6	886.6	804.3	431.0
71	942.0	67.8	82.5	76.3	75.3	78.4	47.2	39.5	38.4	41.4	625.4	482.8	846.7	724.7	772.3	506.5	140.5	188.2	892.6	806.6	441.6
72	944.0	68.5	83.2	77.0	76.0	79.1	43.3	36.7	36.6	38.4	634.7	492.6	852.3	726.4	772.3	522.4	141.0	200.7	899.0	808.8	452.5
73	945.7	69.1	83.9	77.6	76.5	79.8	42.9	35.4	37.1	37.4	644.3	505.0	858.6	729.5	773.2	538.7	142.2	209.5	905.1	811.1	463.1
74	947.2	69.8	84.6	78.2	77.2	80.5	44.4	37.6	37.3	40.4	655.4	515.6	868.9	729.5	773.0	556.9	145.2	213.8	911.1	813.5	471.2
75	948.5	70.4	85.3	78.8	77.9	81.2	46.5	39.4	38.5	42.2	665.5	525.6	873.3	730.4	773.2	572.5	150.6	222.2	917.3	816.2	476.9
76	950.6	70.9	85.9	79.3	78.6	82.0	43.9	37.8	38.3	674.4	533.9	873.6	731.3	773.1	586.6	158.2	240.0	921.3	819.0	481.1	
77	952.3	71.4	86.6	80.0	79.2	82.8	44.6	37.6	37.4	38.2	682.8	541.2	877.9	731.6	772.5	602.2	167.7	261.7	923.8	822.1	483.7
78	953.3	71.8	87.2	80.5	79.8	83.7	45.7	38.4	37.8	39.8	691.8	548.6	887.1	731.7	771.2	617.4	178.5	285.3	934.7	825.2	486.2
79	956.3	72.1	87.8	81.0	80.5	84.8	47.5	40.0	39.1	40.5	698.1	557.3	870.4	732.5	770.5	632.1	191.2	309.8	929.7	828.1	490.1
80	957.5	72.4	88.4	81.5	81.1	86.0	47.2	39.6	38.6	39.9	706.7	565.9	869.3	732.3	770.4	645.8	205.0	333.2	932.3	830.6	491.6
81	959.8	72.7	88.9	82.1	81.6	87.2	47.1	39.6	38.5	39.9	717.0	575.4	865.5	733.3	771.3	658.4	220.9	355.4	931.5	832.9	492.0
82	960.1	73.0	89.5	82.5	82.3	88.7	46.1	38.7	38.7	40.5	725.4	585.0	859.3	734.9	773.0	669.8	237.2	376.7	930.8	834.7	491.8
83	962.9	73.3	90.2	83.3	83.0	90.4	46.5	40.9	37.6	40.4	731.0	594.9	846.3	732.8	774.1	679.9	255.5	396.6	936.1	836.5	492.7
84	964.3	73.5	90.9	83.8	83.6	92.3	44.8	38.9	36.4	38.5	734.6	606.4	848.8	734.9	776.5	688.9	275.4	413.2	935.3	837.9	501.4
85	965.5	73.6	91.7	84.2	84.4	94.2	46.2	43.2	37.8	39.5	738.9	618.2	846.9	736.8	777.6	696.5	297.3	429.1	930.2	839.1	511.0
86	966.7	73.9	92.6	84.8	85.3	96.1	47.0	43.3	38.1	39.8	744.0	631.4	845.1	739.2	777.9	703.2	320.6	443.4	924.4	839.8	521.5
87	968.5	74.2	93.8	85.4	86.4	97.7	49.6	48.3	40.6	41.3	748.3	642.2	840.5	741.4	778.0	709.0	344.9	455.6	915.2	839.8	532.1
88	970.9	74.6	95.1	86.1	87.6	99.0	49.7	47.2	39.8	41.3	752.2	650.3	844.4	744.0	778.5	713.9	370.7	485.2	902.3	837.2	542.5
89	970.5	75.0	96.7	88.6	89.0	100.0	46.9	43.1	38.6	40.9	754.8	663.3	834.4	746.5	776.0	717.3	395.9	471.2	892.1	834.2	552.5
90	972.8	75.3	98.1	87.4	90.5	100.9	44.9	40.2	36.7	38.5	756.1	674.5	830.9	749.0	773.5	719.5	421.0	477.0	880.4	830.3	562.5
91	973.8	75.6	99.4	88.1	92.0	101.7	44.8	40.7	36.8	39.7	757.6	684.4	828.7	751.6	771.1	719.9	445.6	480.7	861.6	826.4	572.9
92	976.1	76.1	100.4	88.2	93.5	102.6	47.0	44.5	39.1	41.1	768.1	693.5	826.6	754.0	769.5	719.0	469.9	481.9	850.6	822.1	583.4
93	976.2	76.7	101.2	89.1	95.3	103.4	46.9	42.1	37.5	40.6	758.8	701.8	823.2	755.4	768.1	718.9	493.0	494.7	837.9	817.5	592.7
94	976.7	77.3	101.7	89.8	96.8	104.1	46.9	41.9	37.7	41.3	759.2	709.1	820.4	756.4	767.2	719.5	514.2	490.0	826.2	812.8	601.6
95	978.6	78.1	102.3	90.5	98.1	104.7	45.4	42.4	38.0	41.0	759.7	718.1	817.5	757.5	766.6	721.3	535.2	498.4	816.4	808.1	610.4
96	979.9	78.8	102.9	91.1	98.9	105.2	46.8	43.1	37.9	42.0	760.5	722.8	815.6	758.6	766.6	723.9	555.7	508.9	808.0	803.9	619.4
97	981.2	79.7	103.5	91.9	99.6	105.7	47.2	43.8	38.8	44.4	761.2	729.1	811.9	760.1	766.8	726.7	574.9	518.9	800.6	799.9	628.3
98	982.4	80.6	104.1	92.6	100.1	106.2	47.2	43.2	38.7	43.6	761.4	734.2	808.8	760.8	767.2	729.2	592.4	528.2	793.7	796.1	636.7
99	983.2	81.5	104.7	93.3	100.6	106.6	45.9	42.8	38.9	42.6	761.9	739.0	805.2	761.7	768.0	732.5	609.6	537.9	798.3	793.2	645.0
100	984.6	82.5	105.2	94.0	101.1	107.1	48.2	45.1	39.4	44.9	763.1	743.8	801.9	762.9	769.4	736.4	626.6	549.3	783.6	790.9	653.3
101	986.6	83.5	105.6	94.7	101.6	107.5	49.7	48.0	40.4	47.8	763.9	747.9	800.3	763.9	770.4	739.7	641.9	580.9	780.5	788.7	661.0
102	987.9	84.6	106.1	95.5	102.2	108.0	49.5	49.0	40.1	48.1	765.0	751.9	797.6	764.8	771.9	743.3	666.7	573.8	777.9	787.3	668.7
103	989.6	85.7	106.5	96.1	102.8	108.5	47.4	44.1	38.8	45.1	766.1	755.5	795.1	767.3	773.5	746.5	670.0	585.6	775.9	785.9	676.0
104	989.7	86.7	106.9	96.6	103.3	109.0	49.0	46.7	39.6	48.1	767.7	759.2	793.2	768.0	776.0	750.3	683.3	598.5	774.1	785.3	683.3
105	991.2	87.9	107.2	97.3	103.8	109.6	50.6	47.8	40.9	48.8	769.5	763.1	792.0	770.1	779.4	756.0	695.8	612.8	773.3	785.8	690.6
106	992.5	89.0	107.6	98.0	104.2	110.2	51.1	50.3	41.2	50.1	772.7	767.8	790.8	772.6	783.6	761.1	709.7				

Table 27. Temperatures Measured in Assembly S-29, Wood Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
116	1001.8	100.8	113.3	102.9	108.8	125.2	54.6	51.1	40.6	50.1	799.0	805.1	802.4	792.8	799.8	800.7	789.9	746.7	789.3	804.8	753.4
117	1002.3	102.1	114.2	103.2	109.3	129.5	54.6	49.5	40.1	51.1	800.7	807.7	803.7	794.3	800.8	803.9	794.0	755.5	790.8	806.3	756.7
118	1002.6	103.4	115.2	103.4	110.0	136.5	52.7	46.6	42.1	45.8	801.7	809.7	804.9	795.5	801.3	806.3	796.6	761.7	791.6	807.0	759.5
119	1004.2	104.7	116.7	103.7	110.6	145.2	56.0	50.5	41.3	51.7	803.2	811.4	805.8	796.5	801.6	808.1	798.9	767.1	792.7	807.8	762.0
120	1004.5	105.8	118.7	104.0	111.4	152.3	58.0	52.5	42.3	53.6	804.8	813.3	806.6	797.3	802.2	810.2	801.8	772.7	793.5	808.6	764.3
121	1005.5	106.8	121.9	104.3	112.2	159.3	58.0	53.1	43.6	53.0	807.8	815.5	808.5	799.2	804.8	813.5	804.1	778.9	795.2	811.7	768.1
122	1007.9	107.7	126.7	104.6	113.1	174.6	57.8	52.0	42.0	51.8	807.0	813.9	807.5	797.9	803.9	812.8	802.5	780.6	795.0	811.1	769.3
123	1006.8	108.6	131.1	105.1	114.3	190.0	60.4	55.5	44.5	57.4	807.1	813.8	807.2	797.4	803.4	813.7	802.3	783.0	795.4	810.8	770.6
124	1007.0	109.3	136.9	105.7	115.6	205.0	60.4	56.7	44.2	55.6	806.5	812.2	805.1	795.0	801.6	812.8	801.5	783.9	794.6	809.7	770.4
125	1007.8	110.0	146.7	106.2	117.3	219.7	61.2	58.7	44.1	57.3	806.6	812.4	805.3	795.2	801.8	813.9	801.1	785.2	795.0	809.3	771.5
126	1008.7	110.6	153.8	106.6	119.5	234.6	60.3	56.1	44.1	54.6	805.0	810.6	803.5	793.4	799.8	812.7	799.3	785.1	794.2	807.5	771.1
127	1009.5	111.0	160.5	107.3	122.8	250.2	57.0	48.4	42.1	51.3	808.4	811.6	804.1	793.6	800.0	814.5	803.8	787.6	795.0	807.9	772.1
128	1010.4	111.4	177.5	107.9	127.3	267.3	60.4	53.6	42.5	53.8	808.9	811.8	804.8	794.5	800.4	815.4	803.6	788.3	795.5	807.7	773.5
129	1010.2	111.7	193.7	109.0	132.2	286.8	58.6	52.0	42.3	52.4	808.4	810.2	804.0	793.9	799.4	814.3	801.5	786.9	795.6	807.0	774.0

Table 27. Temperatures Measured in Assembly S-29, Wood Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
0	46.5	27.8	41.8	38.7	28.6	27.6	***	***	26.8	26.6	***	***	26.8	26.4	***	***	26.9	26.5
1	112.0	27.8	41.8	38.7	28.6	27.6	***	***	26.8	26.6	***	***	26.8	26.3	***	***	26.9	26.5
2	223.9	27.8	47.7	41.1	28.6	27.7	***	***	26.8	26.6	***	***	26.8	26.4	***	***	26.9	26.5
3	328.2	27.9	77.0	63.0	28.8	27.7	***	***	26.9	26.6	***	***	26.8	26.4	***	***	26.9	26.5
4	428.9	28.2	90.2	81.6	29.4	27.8	***	***	26.9	26.6	***	***	26.9	26.4	***	***	27.0	26.6
5	533.9	29.7	93.2	88.7	38.5	28.8	***	***	27.0	26.7	***	***	26.9	26.4	***	***	27.1	26.6
6	568.0	37.6	96.2	90.5	57.9	35.0	***	***	27.2	26.8	***	***	27.2	26.5	***	***	27.6	26.7
7	600.3	48.6	100.3	92.5	66.4	43.4	***	***	28.3	27.3	***	***	28.2	26.7	***	***	29.9	27.0
8	631.0	56.2	105.7	99.1	70.7	49.1	***	***	30.5	28.7	***	***	29.9	27.3	***	***	33.7	27.8
9	664.9	62.5	109.8	104.9	73.6	53.6	***	***	33.4	30.8	***	***	32.1	28.5	***	***	37.9	28.9
10	699.0	68.1	112.6	108.6	75.7	57.5	***	***	36.5	33.6	***	***	34.6	30.4	***	***	41.9	30.5
11	711.5	72.3	115.6	111.8	77.2	60.9	***	***	39.6	37.1	***	***	37.4	33.0	***	***	45.6	32.2
12	721.4	75.0	122.2	116.1	78.0	63.6	***	***	42.6	41.0	***	***	40.2	36.0	***	***	48.9	34.2
13	732.5	76.0	138.2	124.9	77.8	65.4	***	***	45.3	44.8	***	***	43.0	39.2	***	***	51.8	36.4
14	742.9	75.7	188.0	146.7	75.5	65.8	***	***	47.6	48.3	***	***	45.5	42.2	***	***	54.1	38.5
15	754.0	73.3	256.4	211.4	72.9	64.0	***	***	49.4	51.0	***	***	47.6	44.4	***	***	55.4	40.4
16	762.2	71.3	321.9	289.6	72.9	63.4	***	***	50.5	52.8	***	***	49.4	45.8	***	***	56.2	41.9
17	768.8	71.6	383.2	360.3	70.7	63.8	***	***	51.4	53.7	***	***	50.6	46.7	***	***	56.8	43.1
18	775.5	70.3	433.3	417.2	68.7	62.8	***	***	52.0	54.5	***	***	51.5	47.5	***	***	57.1	44.1
19	782.1	68.0	475.7	460.7	67.3	62.1	***	***	52.3	55.1	***	***	52.1	48.2	***	***	57.2	45.0
20	789.0	68.1	512.2	497.1	66.4	61.8	***	***	52.5	55.4	***	***	52.5	48.7	***	***	57.1	45.7
21	795.0	67.9	544.5	528.8	66.0	61.7	***	***	52.6	55.6	***	***	52.7	48.9	***	***	57.0	46.3
22	799.5	68.5	572.8	557.2	66.1	62.1	***	***	52.7	55.8	***	***	53.0	49.2	***	***	56.9	46.8
23	805.7	70.6	596.8	581.1	66.8	63.3	***	***	52.8	56.2	***	***	53.4	49.6	***	***	56.9	47.4
24	810.7	75.6	617.4	601.6	70.3	66.7	***	***	52.8	56.8	***	***	53.8	50.1	***	***	57.0	48.0
25	815.8	90.9	634.9	619.4	83.0	77.8	***	***	53.0	57.8	***	***	54.2	50.7	***	***	57.2	48.7
26	821.2	103.9	649.6	635.3	99.5	100.0	***	***	53.4	59.0	***	***	54.7	51.4	***	***	57.7	49.7
27	825.8	114.2	662.5	647.9	113.5	117.2	***	***	54.1	60.5	***	***	55.3	52.3	***	***	58.6	51.0
28	828.2	123.3	675.1	659.2	126.6	130.5	***	***	54.9	62.2	***	***	55.9	53.2	***	***	59.7	52.6
29	832.9	131.5	687.7	670.2	138.7	141.2	***	***	56.1	64.0	***	***	56.4	54.2	***	***	61.2	54.7
30	837.9	138.9	699.6	681.2	149.0	150.1	***	***	57.4	66.0	***	***	57.0	55.3	***	***	62.8	57.0
31	842.2	145.9	709.6	689.4	158.3	157.9	***	***	58.8	67.9	***	***	57.6	56.4	***	***	64.6	59.6
32	845.9	152.8	718.9	697.4	166.8	165.3	***	***	60.4	69.8	***	***	58.3	57.5	***	***	66.5	62.1
33	850.0	159.6	727.0	704.1	174.7	172.3	***	***	62.0	71.6	***	***	59.0	58.6	***	***	68.3	64.6
34	853.0	166.6	734.9	710.9	182.2	179.2	***	***	63.5	73.3	***	***	59.8	59.6	***	***	70.0	66.7
35	857.2	173.6	741.8	717.0	189.6	185.8	***	***	65.2	74.7	***	***	60.6	60.4	***	***	71.6	68.7
36	860.7	180.2	748.2	723.2	197.0	192.3	***	***	66.7	75.8	***	***	61.5	61.0	***	***	73.1	70.5
37	863.4	186.4	753.6	728.6	204.7	198.4	***	***	68.2	76.9	***	***	62.5	61.6	***	***	74.4	72.8
38	866.7	191.9	757.8	738.8	212.8	203.6	***	***	69.7	79.2	***	***	63.4	62.0	***	***	75.6	75.8
39	869.6	196.3	761.0	738.8	221.4	208.0	***	***	70.8	82.1	***	***	64.1	62.3	***	***	76.6	78.8
40	873.3	199.7	762.6	744.0	230.4	212.2	***	***	71.7	85.1	***	***	64.7	62.8	***	***	78.0	81.5
41	876.0	202.8	762.4	748.3	240.4	216.3	***	***	72.9	87.6	***	***	65.2	63.3	***	***	79.7	83.6
42	878.2	206.0	760.8	751.6	251.3	220.3	***	***	75.3	89.6	***	***	65.7	63.8	***	***	81.6	85.5
43	881.8	209.3	758.1	753.5	264.8	224.3	***	***	78.4	91.2	***	***	66.1	64.3	***	***	83.7	87.0
44	884.1	213.7	755.2	755.2	281.4	228.3	***	***	81.5	92.4	***	***	66.6	64.9	***	***	85.6	88.4
45	886.4	217.4	751.1	757.8	301.8	232.4	***	***	84.1	93.3	***	***	67.1	65.5	***	***	87.1	89.6
46	890.0	221.9	747.3	758.7	326.8	236.7	***	***	86.1	94.0	***	***	67.8	66.0	***	***	88.3	90.6
47	892.1	225.5	743.7	758.2	353.9	241.0	***	***	87.6	94.6	***	***	68.5	66.5	***	***	89.2	91.6
48	895.1	229.7	741.6	760.1	382.3	245.6	***	***	88.8	95.0	***	***	69.1	67.0	***	***	90.0	92.6
49	896.4	233.7	740.3	761.5	415.0	250.3	***	***	89.7	95.5	***	***	69.8	67.5	***	***	90.7	93.6
50	900.6	237.3	741.9	762.6	453.9	255.0	***	***	90.5	95.8	***	***	70.5	68.1	***	***	91.4	94.5
51	902.4	241.0	744.1	764.1	497.5	259.7	***	***	91.2	96.2	***	***	71.2	68.6	***	***	92.0	95.3
52	904.7	244.5	745.1	766.3	543.1	264.5	***	***	91.9	96.5	***	***	71.8	69.0	***	***	92.7	95.1
53	906.7	248.0	747.5	765.9	586.7	269.4	***	***	92.4	96.9	***	***	72.4	69.5	***	***	94.2	97.7
54	908.7	251.5	750.1	767.1	622.9	274.4	***	***	92.8	97.3	***	***	73.2	70.4	***	***	95.1	98.5
55	911.8	255.1	752.7	767.9	653.2	279.6	***	***	93.2	97.7	***	***	73.9	71.2	***	***	96.0	99.3
56	912.9	258.5	759.7	769.0	682.1	284.6	***	***	93.6	98.1	***	***	74.6	71.9	***	***	96.8	100.1
57	916.4	262.0	765.4	768.2	709.0	288.3	***	***	93.9	98.5	***	***	75.3	72.6	***	***	96.8	100.1

Table 27. Temperatures Measured in Assembly S-29, Wood Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
58	918.5	265.7	769.5	769.0	728.3	291.4	***	***	94.2	98.8	***	***	76.0	73.3	***	***	97.7	100.8
59	919.9	268.8	773.2	771.2	743.5	294.3	***	***	94.5	99.2	***	***	76.6	74.0	***	***	98.7	101.6
60	921.7	271.8	778.3	772.8	755.4	297.1	***	***	94.8	99.6	***	***	77.3	74.7	***	***	99.7	102.4
61	923.8	274.9	782.4	775.1	765.1	301.2	***	***	95.1	100.1	***	***	77.9	75.3	***	***	100.6	103.1
62	925.9	278.2	796.3	776.4	774.5	307.1	***	***	95.4	100.7	***	***	78.7	75.9	***	***	101.6	103.8
63	927.8	281.4	789.3	778.5	781.2	314.6	***	***	95.8	101.3	***	***	79.4	76.5	***	***	102.5	104.5
64	930.0	284.5	792.1	779.8	786.4	323.9	***	***	96.2	102.0	***	***	80.0	77.1	***	***	103.4	105.2
65	931.9	287.4	793.9	780.8	790.6	335.0	***	***	96.7	102.7	***	***	80.8	77.6	***	***	104.2	105.9
66	933.4	290.5	794.6	781.3	792.6	348.2	***	***	97.4	103.5	***	***	81.4	78.3	***	***	105.0	106.5
67	935.7	293.7	793.9	780.5	793.3	364.2	***	***	98.1	104.3	***	***	82.1	79.0	***	***	105.8	107.2
68	937.9	297.0	790.8	778.5	791.1	382.6	***	***	98.8	105.0	***	***	82.6	79.5	***	***	106.6	107.8
69	938.6	300.5	790.0	776.7	791.1	403.6	***	***	99.5	105.8	***	***	83.2	80.0	***	***	107.3	108.4
70	941.5	304.0	787.5	776.3	787.9	426.4	***	***	100.4	106.6	***	***	83.8	80.5	***	***	108.0	109.1
71	942.0	308.2	784.3	773.9	784.2	450.4	***	***	101.2	107.3	***	***	84.5	81.0	***	***	108.7	109.6
72	944.0	312.2	782.1	772.4	780.7	474.4	***	***	102.1	108.0	***	***	85.2	81.6	***	***	109.4	110.2
73	945.7	316.5	780.7	771.0	777.1	497.7	***	***	102.9	108.8	***	***	85.7	82.0	***	***	110.1	110.9
74	947.2	321.0	779.6	768.4	773.8	519.6	***	***	103.7	109.5	***	***	86.1	82.3	***	***	110.8	111.5
75	948.5	325.8	778.8	766.4	771.1	540.6	***	***	104.7	110.2	***	***	86.6	82.7	***	***	111.5	112.2
76	950.6	331.0	779.5	764.8	770.4	561.3	***	***	105.7	111.0	***	***	87.3	83.0	***	***	112.2	112.9
77	952.3	336.6	779.5	764.9	769.1	582.0	***	***	106.6	111.8	***	***	87.8	83.2	***	***	113.0	113.7
78	953.3	342.4	779.1	764.3	767.9	601.9	***	***	107.6	112.8	***	***	88.4	83.5	***	***	113.9	114.6
79	956.3	348.8	779.2	763.6	767.8	620.4	***	***	108.7	113.8	***	***	88.9	83.7	***	***	115.1	115.6
80	957.5	355.4	780.3	764.6	768.7	636.3	***	***	109.9	115.0	***	***	89.1	83.9	***	***	116.4	116.8
81	959.8	362.5	782.1	766.8	770.8	650.3	***	***	111.3	116.6	***	***	89.6	84.2	***	***	117.9	118.2
82	960.1	370.1	784.5	769.4	773.6	662.8	***	***	113.0	118.8	***	***	90.1	84.6	***	***	119.8	120.1
83	962.9	378.2	787.2	772.6	776.0	673.8	***	***	115.3	121.8	***	***	90.7	85.2	***	***	122.3	122.8
84	964.3	387.4	788.7	776.9	779.6	682.9	***	***	118.9	125.2	***	***	91.2	85.8	***	***	125.2	125.8
85	965.5	397.7	789.7	780.0	782.1	690.0	***	***	122.2	128.1	***	***	91.4	86.5	***	***	128.3	128.3
86	966.7	409.3	789.5	781.6	783.5	694.6	***	***	126.9	130.9	***	***	91.4	87.3	***	***	132.3	130.9
87	968.5	422.1	789.0	782.7	784.4	697.3	***	***	132.0	135.4	***	***	91.3	88.1	***	***	138.2	134.8
88	970.9	436.6	788.6	784.0	786.1	697.4	***	***	139.0	140.8	***	***	91.1	89.0	***	***	144.5	139.5
89	970.5	452.3	785.5	782.8	784.0	694.3	***	***	145.4	145.5	***	***	90.8	89.7	***	***	149.7	142.9
90	972.8	468.9	782.8	780.6	782.0	693.5	***	***	153.7	149.7	***	***	90.9	90.4	***	***	154.6	145.4
91	973.8	486.7	780.5	777.9	780.2	694.4	***	***	163.3	153.5	***	***	91.2	90.9	***	***	159.5	147.5
92	976.1	505.6	779.1	774.8	778.5	696.0	***	***	170.9	157.7	***	***	91.7	91.4	***	***	166.3	149.7
93	976.2	524.7	777.8	772.8	777.0	698.4	***	***	177.9	164.9	***	***	92.6	92.0	***	***	173.6	152.1
94	976.7	543.3	776.9	772.0	776.2	701.2	***	***	185.2	171.8	***	***	93.2	92.5	***	***	181.0	154.7
95	978.6	561.5	776.1	771.6	775.9	704.4	***	***	193.2	177.0	***	***	93.7	93.0	***	***	190.5	157.9
96	979.9	579.7	775.9	772.3	776.4	708.0	***	***	202.3	181.5	***	***	94.2	93.5	***	***	200.0	162.6
97	981.2	596.9	775.6	773.0	776.8	711.5	***	***	212.1	185.9	***	***	94.9	93.9	***	***	208.4	167.8
98	982.4	612.4	775.4	773.6	777.0	714.7	***	***	221.7	190.7	***	***	95.5	94.3	***	***	218.1	172.4
99	983.2	627.0	775.9	774.8	777.9	718.2	***	***	230.8	196.2	***	***	96.2	94.7	***	***	225.4	177.2
100	984.6	641.2	776.8	776.6	779.4	722.1	***	***	239.4	202.3	***	***	97.0	95.1	***	***	232.8	182.5
101	986.6	653.8	777.5	777.8	780.5	725.4	***	***	247.6	209.2	***	***	98.0	95.5	***	***	240.3	187.8
102	987.9	665.5	778.4	780.0	781.8	728.9	***	***	256.0	216.5	***	***	99.1	95.8	***	***	247.8	192.9
103	989.6	676.1	779.6	782.9	783.4	732.0	***	***	264.4	223.4	***	***	100.3	96.2	***	***	255.5	197.7
104	989.7	686.3	781.9	787.0	786.1	735.5	***	***	272.9	229.0	***	***	101.4	96.4	***	***	263.2	202.3
105	991.2	696.6	784.6	790.6	789.6	740.2	***	***	281.4	233.8	***	***	102.7	96.8	***	***	270.6	206.5
106	992.5	708.2	787.7	794.6	793.2	745.1	***	***	290.0	238.5	***	***	103.8	97.2	***	***	277.8	210.5
107	993.3	718.8	790.7	798.7	796.5	748.5	***	***	297.9	243.2	***	***	105.0	97.7	***	***	285.0	214.2
108	995.1	727.8	792.3	801.3	798.4	750.0	***	***	305.4	248.2	***	***	106.4	98.4	***	***	292.3	218.2
109	995.1	734.2	792.5	802.9	798.6	750.2	***	***	313.4	253.5	***	***	108.1	99.1	***	***	299.7	222.4
110	997.4	740.6	793.2	803.7	798.5	751.3	***	***	321.6	258.9	***	***	110.0	99.8	***	***	307.1	226.8
111	997.9	747.6	795.0	805.4	798.6	754.4	***	***	329.4	264.6	***	***	112.4	100.4	***	***	314.5	231.4
112	997.4	753.8	795.9	806.5	798.6	758.2	***	***	336.7	270.4	***	***	115.5	101.1	***	***	321.9	236.0
113	999.6	758.3	796.2	806.7	798.1	761.5	***	***	343.7	276.3	***	***	119.4	101.9	***	***	329.6	240.8
114	999.4	762.9	797.5	807.3	798.1	765.0	***	***	350.3	282.4	***	***	123.8	102.6	***	***	337.3	245.4
115	1000.8	766.1	798.0	807.1	797.7	767.8	***	***	356.7	288.5	***	***	128.4	103.3	***	***	344.5	250.1

Table 27. Temperatures Measured in Assembly S-29, Wood Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number															
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
116	1001.8	768.3	797.2	806.6	796.8	769.7	***	***	362.7	294.7	***	***	133.1	104.1	***	351.0	254.9
117	1002.3	771.0	798.6	807.5	796.9	772.1	***	***	368.7	301.0	***	***	137.4	104.9	***	357.1	258.7
118	1002.6	773.0	799.3	808.2	796.6	774.1	***	***	374.4	307.5	***	***	141.6	105.8	***	362.9	264.7
119	1004.2	775.0	800.1	808.5	796.5	775.7	***	***	380.8	314.2	***	***	145.9	106.8	***	368.6	269.6
120	1004.5	776.7	801.1	808.7	796.5	777.1	***	***	386.9	320.9	***	***	149.6	108.1	***	374.1	274.7
121	1005.5	780.5	803.1	810.8	798.1	779.8	***	***	392.7	327.6	***	***	153.0	109.4	***	379.6	279.9
122	1007.9	781.0	801.4	809.6	796.5	780.0	***	***	399.0	334.2	***	***	157.2	111.1	***	385.2	285.0
123	1006.8	781.6	801.1	808.8	795.5	780.2	***	***	405.2	340.6	***	***	161.7	113.1	***	391.2	290.1
124	1007.0	781.7	799.5	806.6	793.2	779.1	***	***	412.6	346.9	***	***	165.6	115.5	***	397.2	295.5
125	1007.8	782.7	799.7	806.6	792.9	779.7	***	***	419.9	352.9	***	***	170.2	118.3	***	403.3	301.0
126	1008.7	782.5	798.3	804.7	790.9	778.7	***	***	428.2	358.9	***	***	175.5	121.6	***	409.8	306.9
127	1008.5	785.2	799.4	803.9	791.0	779.0	***	***	437.3	364.9	***	***	180.9	125.5	***	416.5	313.1
128	1010.4	787.9	800.3	803.9	791.5	780.1	***	***	447.4	371.0	***	***	192.3	135.4	***	***	***
129	1010.2	789.3	799.2	802.8	790.6	780.1	***	***	457.0	377.2	***	***	433.7	327.7			

Table 28. Average Temperatures Measured in Assembly S-29, Wood Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(18,19,22,23)	BL/Std. (Exp.) Av(12,13)	Mid Std. Av(10,11,14,15)	BL/Cav. (UnExp.) Av(20,21,24,25)	BL/Std. (UnExp.) Av(16,17)	BL/FL (UnExp.) Av(28,29,32,33,35,37)	UnExp. Av(1,2,3,4,5)
0	46.5	40.5	37.1	31.3	28.1	27.6	26.7	26.5
1	112.0	40.6	37.1	31.3	28.1	27.6	26.7	26.5
2	223.9	44.8	38.7	31.4	28.1	27.6	26.7	26.5
3	328.2	69.0	48.1	32.4	28.3	27.7	26.7	26.6
4	428.9	86.2	69.3	41.1	28.7	27.7	26.7	26.6
5	533.9	91.4	81.7	58.1	33.3	27.8	26.8	26.6
6	568.0	93.9	86.7	69.8	45.5	28.5	27.0	26.6
7	600.3	98.5	89.4	75.1	54.7	29.8	27.9	26.6
8	631.0	104.6	92.1	79.1	60.3	32.1	29.6	26.7
9	664.9	109.3	94.1	82.6	64.5	35.2	31.9	26.9
10	699.0	112.3	96.1	84.9	68.0	38.9	34.6	27.2
11	711.5	115.3	97.3	86.1	70.7	42.8	37.5	27.7
12	721.4	120.3	97.7	86.4	72.5	46.4	40.5	28.4
13	732.5	132.3	98.2	85.8	73.3	49.0	43.4	29.3
14	742.9	169.8	102.2	83.8	72.5	50.5	46.0	30.4
15	754.0	239.7	123.1	81.1	70.3	51.6	48.0	31.6
16	762.2	313.3	160.3	80.2	69.5	53.0	49.4	32.9
17	764.8	382.8	205.7	80.7	68.8	54.1	50.4	34.2
18	775.5	435.5	246.2	79.6	67.3	54.8	51.1	35.4
19	782.1	476.7	283.2	78.5	66.2	55.5	51.6	36.5
20	789.0	511.8	316.1	78.3	65.5	56.0	52.0	37.5
21	795.0	542.6	347.5	80.6	65.3	56.4	52.2	38.4
22	799.5	569.8	376.2	83.8	65.9	56.8	52.4	39.2
23	805.7	592.8	403.5	89.9	68.8	57.4	52.7	39.8
24	810.7	612.5	433.0	89.0	75.0	58.3	53.1	40.5
25	815.8	629.3	467.3	112.0	87.9	59.4	53.6	41.0
26	821.2	643.8	505.0	129.5	104.0	60.8	54.3	41.5
27	825.8	656.0	533.1	145.2	117.3	62.3	55.3	42.0
28	828.2	667.2	552.3	157.8	128.9	63.5	56.4	42.6
29	832.8	678.2	567.1	166.0	139.0	64.3	57.8	43.2
30	837.9	689.0	576.9	174.4	147.6	65.0	59.2	43.9
31	842.2	698.2	582.9	182.6	155.8	65.6	60.8	44.7
32	845.9	707.2	588.0	190.2	163.7	66.4	62.4	45.6
33	850.0	715.2	595.6	197.0	171.0	67.2	64.0	46.6
34	853.0	723.4	601.3	204.3	176.2	68.1	65.5	47.8
35	857.2	730.9	607.5	211.1	185.2	69.0	66.9	48.9
36	860.7	738.4	610.8	218.4	192.1	69.9	68.1	50.2
37	863.4	745.7	616.8	225.8	196.9	70.8	69.4	51.4
38	866.7	752.5	625.3	233.4	205.3	71.8	70.9	52.6
39	869.6	758.3	633.5	241.1	211.3	72.8	72.5	53.7
40	873.3	763.0	642.1	249.2	217.0	73.8	74.0	54.8
41	876.0	766.5	649.4	257.3	223.1	74.9	75.4	55.9
42	878.1	768.6	657.6	265.4	229.5	75.9	76.9	56.9
43	881.8	770.5	667.1	273.9	238.8	77.0	78.5	58.0
44	884.1	772.6	675.5	282.3	245.0	78.2	79.9	59.0
45	886.4	774.5	683.7	291.9	254.3	79.6	81.1	60.0
46	890.0	771.2	692.2	301.0	264.9	81.0	82.1	60.9
47	892.1	770.4	699.0	309.7	275.9	82.6	83.0	61.8
48	895.1	770.5	705.4	319.2	287.0	84.5	83.8	62.7
49	896.1	770.4	711.0	327.9	299.0	86.6	84.5	63.4
50	900.8	771.4	718.1	336.5	312.6	89.2	85.1	64.2
51	902.4	772.5	723.4	346.1	327.0	91.8	85.8	64.9
52	904.7	773.4	725.5	356.0	341.6	93.7	86.3	65.5
53	906.7	774.2	725.1	364.1	365.2	95.0	94.7	66.0
54	908.7	775.5	728.6	372.0	367.0	95.8	87.6	66.5
55	911.8	777.1	731.2	380.4	377.6	97.2	88.3	67.0
56	912.7	780.1	733.7	389.5	387.8	98.0	88.9	67.4
57	916.4	782.5	737.9	399.2	397.3	99.0	89.5	67.8

Table 28. Average Temperatures Measured in Assembly S-29, Wood Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(18,19,22,23)	BL/Std. (Exp.) Av(12,13)	Mid Std. Av(10,11,14,15)	BL/Cav. (UnExp.) Av(20,21,24,25)	BL/Std. (UnExp.) Av(18,17)	BL/FL (UnExp.) Av(28,29,32,33,34,37)	UnExp. Av(1,2,3,4,5)
58	918.5	785.3	741.2	411.2	405.1	97.7	90.1	68.1
59	919.9	788.1	743.3	423.6	411.9	99.3	90.8	68.6
60	921.7	791.2	748.7	443.8	417.7	101.4	91.4	69.0
61	923.6	794.4	758.3	467.0	428.3	103.8	92.0	69.5
62	925.9	797.6	757.8	489.3	429.8	106.5	92.7	70.0
63	927.8	800.9	762.1	508.3	436.1	109.8	93.3	70.6
64	930.0	803.8	765.4	524.5	442.6	113.3	94.0	71.2
65	931.9	806.6	769.6	537.9	449.4	118.0	94.7	71.9
66	933.4	808.9	773.0	549.4	456.1	123.8	95.4	72.6
67	935.7	810.5	777.0	560.3	463.4	131.0	96.1	73.3
68	937.9	811.2	778.6	569.7	470.6	139.5	96.7	74.0
69	938.6	812.5	780.6	578.7	479.1	148.4	97.4	74.7
70	941.5	813.7	781.8	586.9	487.3	157.0	98.1	75.3
71	942.0	814.4	785.7	596.7	496.1	164.4	98.7	76.1
72	944.0	815.6	789.4	605.5	504.9	170.9	99.4	76.7
73	945.7	817.0	794.0	615.3	513.6	175.9	100.1	77.4
74	947.2	818.2	799.2	625.2	521.4	179.5	100.7	78.1
75	948.5	819.7	801.9	634.2	528.6	186.4	101.3	78.7
76	950.6	821.2	802.4	642.5	535.9	199.1	102.0	79.4
77	952.3	822.6	804.7	649.7	542.9	214.7	102.7	80.0
78	953.3	825.8	809.4	657.3	549.6	231.9	103.5	80.6
79	956.3	825.2	801.5	664.5	556.8	250.5	104.3	81.2
80	957.5	826.9	800.8	672.2	563.0	269.1	105.2	81.9
81	959.8	828.3	799.4	680.5	568.9	287.9	106.3	82.5
82	960.1	829.8	797.1	688.3	574.6	306.9	107.7	83.2
83	962.9	833.1	789.6	694.9	580.2	326.1	109.7	84.0
84	964.3	834.7	791.8	701.6	587.8	344.3	111.9	84.8
85	965.5	834.8	791.8	707.8	595.2	363.2	114.1	85.6
86	966.7	833.8	792.1	714.1	602.2	382.0	116.6	86.5
87	968.5	831.7	790.9	719.4	609.0	400.3	120.0	87.5
88	970.9	828.0	794.2	723.7	615.7	417.9	124.0	88.5
89	970.5	823.6	790.5	727.9	620.8	433.6	127.4	89.5
90	972.8	818.5	780.0	730.9	626.7	449.0	130.8	90.4
91	973.8	811.6	790.1	733.3	633.5	463.2	134.3	91.4
92	976.1	806.6	790.3	735.0	640.9	475.9	137.9	92.2
93	976.2	801.5	789.3	736.9	643.2	488.9	142.2	93.1
94	976.7	796.9	788.4	738.8	655.6	502.1	146.4	94.0
95	978.6	793.1	787.5	740.9	663.0	516.8	150.9	94.7
96	979.9	790.0	787.1	743.5	670.9	532.3	155.7	95.4
97	981.2	787.3	788.0	745.9	678.4	546.9	160.7	96.1
98	982.4	784.7	784.8	748.0	685.2	560.3	165.5	96.7
99	983.2	783.1	783.4	750.3	692.0	573.8	170.1	97.3
100	984.6	782.0	782.4	753.2	699.0	587.9	174.9	98.0
101	986.6	781.1	782.1	755.5	705.2	601.4	179.7	98.6
102	987.9	780.9	781.2	758.0	711.2	615.0	184.7	99.3
103	989.6	781.1	781.2	760.4	716.9	627.8	189.6	99.9
104	989.7	782.1	780.6	763.3	722.8	640.9	194.2	100.5
105	991.2	783.6	781.1	766.7	729.2	654.3	198.6	101.1
106	992.5	786.1	781.7	771.3	736.2	669.1	203.0	101.8
107	993.3	789.0	783.7	776.3	742.6	684.3	207.2	102.4
108	995.1	790.8	785.4	779.8	747.5	697.0	211.5	103.2
109	995.1	791.6	788.2	782.4	750.7	707.1	216.0	103.8
110	997.4	792.7	787.9	785.9	753.9	718.1	220.7	104.4
111	997.9	795.0	791.2	791.0	758.2	731.0	225.5	105.1
112	997.4	796.5	793.4	794.3	762.1	741.1	230.3	105.9
113	999.6	797.3	794.6	796.3	765.1	748.9	235.3	106.7
114	999.1	798.7	796.1	798.9	768.2	757.5	240.3	107.6
115	1000.1	799.4	797.2	800.3	770.5	764.0	245.3	108.6

Table 28. Average Temperatures Measured in Assembly S-29, Wood Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Av) (°C)	BL/Cav. (Exp.) Av(18,19,22,23)	BL/Std. (Exp.) Av(12,13)	Mid Std. Av(10,11,14,15)	BL/Cav. (UnExp.) Av(20,21,24,25)	BL/Std. (UnExp.) Av(16,17)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,8)
116	1001.8	799.5	797.6	801.1	772.0	768.3	250.1	110.2
117	1002.3	800.8	799.0	803.3	774.2	774.8	254.8	111.7
118	1002.6	801.5	800.2	804.7	775.8	779.2	259.5	113.7
119	1004.2	802.2	801.1	806.1	777.3	783.0	264.3	116.2
120	1004.5	803.0	802.0	807.6	778.6	787.3	269.0	118.4
121	1005.5	805.2	803.8	810.4	781.6	791.5	273.7	120.9
122	1007.9	804.3	802.7	809.4	781.7	791.6	278.6	125.4
123	1006.8	804.0	802.3	809.5	782.0	792.7	283.7	129.8
124	1007.0	802.6	800.0	808.3	781.1	782.7	288.9	134.5
125	1007.8	802.7	800.3	808.7	781.7	793.1	294.3	140.0
126	1008.7	801.2	798.4	807.0	780.8	792.2	300.2	145.0
127	1009.5	801.5	798.8	808.6	781.8	795.7	306.4	150.3
128	1010.4	801.9	799.6	809.1	783.2	795.9	409.2	158.3
129	1010.2	801.2	798.9	808.1	783.5	794.2	320.5	166.7

Table 29. Temperatures Measured in Assembly S-30, Wood Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
0	32.0	25.8	25.9	25.8	25.8	25.8	26.1	26.0	26.1	26.1	25.7	25.7	25.8	25.8	25.7	25.9	25.9	26.2	26.1	25.9		
1	114.2	25.8	25.9	25.8	25.8	25.8	26.1	26.0	26.1	26.1	25.7	25.7	25.8	25.8	25.7	25.9	25.9	26.6	26.6	25.9		
2	223.1	25.8	25.9	25.8	25.8	25.8	26.0	26.0	26.0	25.7	25.7	25.8	26.3	26.5	25.8	25.8	25.9	33.7	32.6	25.9		
3	327.4	25.8	25.9	25.8	25.8	25.8	26.0	25.8	25.9	25.8	25.7	25.7	31.1	32.2	25.8	25.7	25.9	25.8	59.8	52.9	25.9	
4	425.4	25.8	25.9	25.8	25.8	25.8	26.0	25.9	25.9	25.8	25.8	25.7	40.4	52.3	25.8	25.8	25.9	25.9	82.9	78.1	25.9	
5	532.0	25.8	25.9	25.8	25.8	25.8	26.0	25.9	25.0	26.0	27.1	26.0	45.9	75.8	26.2	25.9	25.9	25.9	92.2	81.2	26.0	
6	638.9	25.8	25.9	25.8	25.8	25.8	26.0	26.0	26.0	26.0	34.0	28.1	48.4	85.6	28.9	27.0	25.9	25.9	95.7	94.4	26.2	
7	600.0	25.8	25.9	25.8	25.8	25.8	26.1	26.0	26.0	26.0	49.8	36.8	54.6	90.0	37.2	30.7	25.9	25.9	99.9	98.1	27.1	
8	634.8	25.8	25.9	25.8	25.8	25.8	26.0	26.0	26.0	26.0	67.8	54.5	64.5	92.1	50.0	38.9	26.0	26.9	104.5	103.4	29.5	
9	662.7	25.8	25.9	25.8	25.8	25.8	26.0	25.9	25.9	26.0	81.2	72.7	81.3	93.5	63.2	50.8	26.1	25.9	108.7	109.0	34.9	
10	698.0	25.8	25.8	25.8	25.8	26.1	26.0	26.0	26.0	26.0	88.4	84.0	87.7	94.2	74.7	63.3	26.3	26.0	112.0	113.6	43.3	
11	711.7	25.8	25.9	25.8	25.8	26.0	25.9	26.0	26.0	26.0	91.5	89.4	89.5	94.7	82.8	73.8	27.0	26.4	114.8	117.1	52.9	
12	721.4	25.8	25.9	25.8	25.8	26.1	26.0	26.1	26.1	26.1	92.4	91.7	90.0	94.4	87.2	80.5	28.2	27.2	117.7	119.8	61.2	
13	731.6	26.0	26.0	25.8	25.9	25.8	26.1	26.1	26.1	26.2	92.2	92.1	90.0	93.7	88.8	84.0	30.0	26.8	124.9	124.5	66.7	
14	742.7	26.3	26.1	25.8	25.9	25.9	26.2	26.3	26.0	26.3	91.1	91.6	89.4	92.7	88.7	85.0	32.2	31.3	142.1	137.3	68.8	
15	754.8	26.8	26.3	25.8	26.0	26.3	26.6	26.0	26.4	26.4	89.1	88.5	88.6	87.0	83.5	34.5	33.6	189.7	181.6	70.3		
16	761.9	27.6	26.7	25.9	26.2	26.1	26.6	27.0	26.2	26.8	89.0	87.3	87.2	90.2	86.0	81.9	37.0	36.1	240.7	239.4	70.7	
17	769.7	28.5	27.3	26.1	26.6	26.4	26.9	27.6	26.4	27.2	90.2	90.0	86.1	94.4	87.6	84.0	39.6	39.4	281.5	288.6	73.4	
18	774.6	29.7	28.0	28.3	27.1	26.8	27.4	28.2	28.2	26.5	27.7	89.3	89.9	88.8	100.6	87.1	85.1	42.1	41.7	338.6	350.8	74.8
19	783.6	31.1	28.9	28.7	27.8	27.3	28.7	28.7	28.7	28.0	88.8	88.8	88.0	133.7	86.7	84.7	44.5	43.5	390.2	402.9	75.4	
20	789.7	32.5	29.9	27.1	28.5	28.0	27.9	29.5	27.0	28.7	88.5	88.2	87.9	159.4	86.5	84.5	46.8	46.1	435.4	441.9	78.0	
21	794.9	33.9	31.0	27.7	29.4	28.7	28.4	29.9	27.2	29.0	88.4	88.2	87.7	181.0	86.4	84.8	49.0	46.7	474.7	47.7	76.5	
22	800.0	35.3	32.3	28.3	30.4	29.5	28.5	30.5	27.5	29.5	88.4	88.0	87.7	203.0	86.3	84.8	50.9	47.9	508.8	502.4	77.0	
23	805.9	36.7	33.6	29.1	31.5	30.5	29.7	31.5	27.9	30.2	88.3	87.8	87.9	224.8	88.3	84.6	52.6	48.9	538.3	526.2	77.6	
24	810.8	38.0	34.9	29.9	32.6	31.5	30.1	32.2	28.2	30.8	88.4	87.5	88.3	244.9	86.3	84.4	54.0	49.9	563.8	545.7	78.1	
25	815.0	39.2	36.3	30.8	33.8	32.7	30.6	32.9	28.7	31.7	88.5	87.2	88.8	263.5	86.4	84.2	55.8	50.8	585.2	561.5	78.5	
26	819.8	40.3	37.6	31.7	35.0	33.8	30.8	33.0	28.8	31.2	88.5	88.8	89.4	281.4	86.4	83.9	51.5	60.1	602.9	575.1	78.8	
27	824.9	41.3	38.9	32.7	36.3	35.0	31.0	33.9	29.1	31.8	88.6	88.5	90.0	298.7	86.4	83.9	57.2	52.2	617.3	587.8	78.0	
28	829.1	42.2	40.1	33.8	37.4	36.2	32.1	35.1	29.2	33.4	88.7	88.6	90.5	316.3	86.6	84.2	58.1	52.9	628.6	600.3	79.1	
29	834.0	43.1	41.3	34.7	38.6	37.5	32.7	35.3	29.9	32.9	89.0	87.0	91.0	333.6	87.0	84.8	58.8	53.5	640.8	612.4	79.2	
30	837.5	43.9	42.4	35.7	39.7	38.7	33.6	35.8	30.4	32.9	89.2	87.6	91.5	350.2	87.5	85.4	59.5	54.0	651.6	624.5	79.3	
31	841.6	44.6	43.4	36.7	40.7	39.8	33.7	36.7	30.2	32.8	89.4	88.2	92.2	363.6	87.9	86.0	60.1	64.6	661.6	636.8	79.5	
32	846.4	45.3	44.3	37.7	41.7	40.9	34.0	35.7	30.4	33.2	89.6	88.8	92.8	375.6	88.4	86.6	60.7	55.1	671.2	646.0	79.8	
33	849.5	45.9	45.1	38.7	42.6	41.9	34.6	36.7	31.1	33.4	89.7	89.1	93.3	389.3	88.8	87.1	61.2	55.6	680.3	656.2	80.1	
34	854.7	46.5	45.9	39.6	43.4	42.9	34.7	36.2	30.8	33.3	89.8	89.4	93.9	404.7	88.1	87.4	61.7	56.1	688.6	668.6	80.5	
35	857.4	47.0	46.8	40.4	44.2	43.7	35.4	36.8	31.6	33.9	89.9	89.6	94.2	421.2	88.5	87.5	62.2	58.5	898.7	676.4	80.9	
36	860.3	47.6	47.4	41.3	44.9	44.6	36.1	37.6	32.0	34.7	90.1	89.6	94.7	439.0	88.8	87.6	62.6	57.0	704.9	685.8	81.4	
37	862.2	48.1	48.1	42.2	45.7	45.5	35.3	37.1	31.6	34.0	90.2	89.7	95.2	457.5	90.1	87.7	63.1	57.4	712.8	695.0	82.0	
38	867.5	48.6	48.7	42.9	46.3	46.1	35.2	36.6	31.4	33.4	90.5	89.9	95.6	476.9	90.3	87.9	63.5	57.9	720.8	704.1	82.6	
39	870.6	49.1	49.4	43.7	47.0	46.9	36.4	38.2	32.3	35.0	90.7	90.0	95.9	495.9	90.5	88.1	63.9	58.3	729.4	712.6	83.2	
40	873.1	49.6	50.0	44.5	47.6	46.4	36.4	37.6	31.9	34.4	91.0	90.1	96.2	515.7	90.7	88.4	64.3	58.8	738.7	720.7	84.0	
41	874.8	49.9	50.5	45.2	48.2	48.1	35.5	36.3	31.4	33.8	91.5	90.4	96.7	530.9	91.0	88.8	64.7	59.3	747.2	728.4	84.8	
42	878.8	50.4	51.1	45.9	48.6	48.7	36.9	37.9	32.3	34.5	92.2	90.7	97.2	543.6	91.2	89.0	65.1	59.7	756.9	735.4	85.8	
43	881.6	50.8	51.7	46.6	49.4	49.2	36.6	37.5	31.9	34.3	93.1	90.9	97.7	562.6	91.4	89.2	65.6	60.2	767.1	742.6	86.8	
44	883.7	51.2	52.2	47.2	49.9	49.7	36.8	37.5	32.5	34.8	94.5	91.2	98.2	570.7	91.6	89.4	65.8	60.8	777.2	749.3	87.8	
45	885.7	51.6	52.8	47.8	50.5	50.2	38.4	38.7	32.9	35.8	96.6	91.8	98.6	582.7	91.9	89.8	66.3	61.0	785.4	756.2	89.1	
46	890.7	52.0	53.4	48.5	51.1	50.8	38.9	39.0	33.3	36.1	99.7	92.6	99.1	596.8	92.3	90.4	66.7	61.5	793.6	763.4	90.5	
47	891.8	52.3	53.9	49.1	51.7	51.2	36.7	36.7	31.9	34.2	104.5	94.2	99.6	613.3	93.1	91.3	67.1	61.9	802.0	769.7	92.2	
48	894.9	52.6	54.3	49.6	52.1	51.6	37.8	38.2	33.1	34.9	111.2	99.6	99.9	627.4	94.2	92.8	67.4	62.3	811.7	774.9	94.2	
49	897.1	52.9	54.8	50.2	52.6	52.0	36.8	36.7	31.8	33.6	119.5	100.2	100.3	639.2	96.0	95.2	67.8	62.7	820.4	779.1	96.6	
50	900.5	53.2	55.3	50.8	53.0	52.4	39.1	39.2	33.7	35.6	129.5	108.3	100.7	650.3	99.0	95.5	68.1	63.1	827.9	782.7	99.7	
51	901.1	53.6	55.9	51.4	53.6	52.9	40.3	40.0	34.3	37.2	140.3											

Table 29. Temperatures Measured in Assembly S-30, Wood Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
53	817.7	56.3	56.6	55.0	58.4	55.1	38.3	38.2	33.0	35.2	247.6	202.5	105.0	735.8	205.4	186.6	70.9	66.4	879.3	815.0	178.0	
54	818.0	55.6	59.0	55.5	58.8	55.5	38.7	39.8	34.2	35.7	289.8	214.8	105.7	741.5	228.5	200.4	71.3	66.8	892.2	817.7	197.8	
55	822.7	55.9	59.4	56.0	57.2	55.9	40.1	40.6	34.7	36.7	297.3	226.7	106.4	747.1	249.5	214.4	71.6	67.1	899.4	819.7	220.4	
56	821.7	56.1	58.8	56.4	57.6	56.1	40.6	39.9	34.1	36.5	329.0	239.2	107.3	752.9	275.9	229.3	72.0	67.5	911.6	822.0	245.8	
57	826.3	56.4	60.1	58.9	58.0	56.4	39.9	39.9	34.6	36.3	359.0	262.0	108.8	757.7	310.9	245.5	72.3	68.0	924.6	824.4	274.9	
58	825.4	56.6	60.4	57.3	58.3	56.7	38.6	38.7	33.7	35.1	393.2	265.2	109.3	762.3	351.1	264.0	72.7	68.4	954.8	826.4	311.7	
59	829.2	56.8	60.6	57.6	58.5	56.9	40.6	40.3	34.7	37.3	427.9	278.4	109.7	766.4	392.8	282.9	73.0	68.8	971.4	829.2	385.2	
60	822.0	57.0	60.9	58.0	58.8	57.3	39.5	40.0	34.2	35.7	463.8	291.9	110.6	770.7	434.0	302.3	73.4	69.2	983.0	831.9	434.9	
61	823.0	57.2	61.1	58.4	59.1	57.5	38.9	39.0	34.0	36.1	482.8	304.5	114.2	776.3	479.5	322.2	73.8	69.6	972.8	835.6	502.6	
62	836.4	57.4	61.2	58.7	59.2	57.7	38.2	38.5	33.8	35.3	518.1	317.0	115.1	783.8	519.3	342.0	74.2	70.1	970.8	838.7	556.9	
63	837.6	57.6	61.5	59.1	59.5	57.9	40.8	41.1	35.8	37.2	552.2	329.9	116.1	792.5	555.1	359.5	74.6	70.5	987.4	842.0	593.2	
64	839.2	57.8	61.8	59.5	59.9	58.3	39.8	40.1	34.7	36.3	594.5	344.5	118.6	798.3	583.7	378.0	75.1	71.0	983.3	846.7	621.6	
65	840.8	58.2	62.0	59.9	60.2	58.6	39.8	39.8	34.5	35.9	607.8	360.1	123.9	804.9	604.3	396.2	75.7	71.5	981.8	850.5	641.6	
66	842.3	58.4	62.2	60.3	58.8	40.0	39.7	34.7	36.6	620.9	377.8	131.7	812.3	605.5	413.0	76.3	72.0	958.7	855.4	660.6		
67	841.9	58.6	62.5	60.5	60.6	59.1	41.6	41.4	35.5	37.2	639.5	395.0	146.1	821.5	599.1	428.6	77.1	72.5	982.9	859.2	676.8	
68	843.6	58.8	62.8	60.9	58.4	42.2	42.0	35.4	37.5	652.5	411.4	164.7	829.2	617.6	444.5	78.0	72.9	954.4	862.7	690.4		
69	847.0	59.3	63.3	61.3	61.2	59.9	44.5	44.0	37.0	40.1	663.6	428.5	193.6	836.8	632.1	460.0	78.1	73.5	952.7	866.3	704.1	
70	848.4	59.6	63.6	61.6	61.6	60.3	43.5	43.2	36.0	38.5	674.7	447.6	235.3	847.4	644.3	475.3	80.2	74.0	951.9	889.0	716.1	
71	851.1	59.9	64.2	61.9	60.6	43.8	43.4	36.4	39.2	684.3	469.4	302.0	854.9	649.4	489.8	81.5	74.6	951.8	874.1	726.1		
72	852.3	60.3	64.5	62.2	62.1	60.8	43.8	42.6	35.8	39.3	695.9	483.0	910.1	863.3	660.7	501.8	83.1	75.2	957.3	879.0	735.6	
73	856.1	60.7	65.1	62.5	62.4	61.2	45.4	44.3	37.0	39.9	708.2	501.7	878.1	875.3	671.4	513.4	84.8	75.9	954.2	883.2	746.7	
74	856.8	61.2	65.6	62.9	62.8	61.7	46.0	45.3	37.0	40.4	717.5	529.2	867.3	880.3	681.8	524.3	86.4	76.7	948.4	886.0	753.6	
75	857.0	61.6	66.0	63.2	63.0	62.0	46.1	45.1	37.1	39.9	725.9	544.1	903.3	886.8	692.6	533.8	87.5	77.5	943.2	888.8	759.2	
76	859.6	62.1	66.3	63.5	63.2	62.2	44.5	44.6	36.5	39.6	735.1	562.8	902.8	892.3	705.3	542.6	89.2	78.3	948.2	892.1	768.7	
77	860.1	62.6	66.5	63.8	63.4	62.5	46.8	46.5	37.2	41.3	740.4	580.7	902.5	896.1	722.7	555.8	94.5	79.4	947.6	886.9	770.5	
78	860.0	63.2	67.0	64.1	63.8	63.0	48.6	48.7	39.0	42.4	742.8	597.4	894.4	897.7	732.9	570.7	99.9	80.5	950.3	901.0	777.6	
79	863.9	63.9	67.3	64.4	64.2	63.4	48.6	48.1	38.1	42.8	745.8	611.2	891.8	902.1	744.4	582.6	107.7	81.7	943.1	905.6	780.5	
80	864.1	64.5	67.5	64.7	64.4	63.7	49.4	47.5	38.5	43.0	746.0	624.4	892.3	909.5	751.3	594.8	117.6	82.9	943.8	911.4	781.7	
81	867.2	65.2	67.9	64.0	64.7	64.1	46.3	47.2	35.5	41.7	746.9	634.6	889.7	904.8	763.5	603.5	131.2	84.1	943.7	915.4	787.5	
82	870.7	66.0	68.1	65.2	65.0	64.4	50.0	48.2	38.5	42.1	748.7	641.9	887.1	914.1	768.4	614.8	147.6	85.5	942.0	917.3	781.7	
83	868.8	66.7	68.5	65.5	65.4	64.9	49.8	49.0	38.2	44.8	750.5	649.2	884.6	914.0	774.3	624.4	170.4	86.8	940.4	921.3	792.1	
84	873.8	67.7	69.0	65.9	65.9	65.5	51.4	50.6	41.0	45.7	753.1	659.8	880.5	916.0	779.0	633.6	203.3	88.1	938.0	924.3	797.9	
85	874.0	68.5	69.3	66.2	66.4	66.0	50.6	50.1	39.7	45.2	753.6	669.1	876.3	908.6	781.3	642.4	242.2	89.9	937.8	924.0	800.1	
86	874.0	69.3	69.7	66.5	67.1	66.6	52.0	50.6	40.7	45.7	756.5	676.7	873.8	912.5	782.3	647.9	285.5	92.5	934.6	924.5	804.6	
87	876.4	70.0	70.0	66.9	67.8	67.1	51.8	51.7	41.2	45.8	760.4	685.1	870.8	908.8	782.5	652.7	332.9	95.9	932.8	925.4	808.5	
88	876.1	70.9	70.3	67.3	68.5	67.6	52.3	52.1	41.1	45.3	764.3	689.9	867.7	910.6	782.3	658.1	382.3	98.4	930.4	926.5	810.5	
89	876.0	71.7	70.6	67.8	69.1	68.1	51.6	52.0	41.5	46.4	768.1	693.2	863.9	904.4	783.3	665.4	427.5	99.8	926.8	927.9	914.6	
90	876.1	72.4	70.8	68.1	69.6	68.5	51.8	52.8	41.9	45.2	769.5	698.5	869.6	784.8	761.9	676.8	466.8	100.8	921.0	928.9	914.9	
91	876.2	73.1	71.1	68.4	70.0	68.9	51.2	51.8	40.6	48.1	768.9	703.2	852.6	907.1	784.4	787.3	500.1	101.7	920.0	929.9	919.8	
92	880.6	73.7	71.4	68.7	70.4	69.3	52.5	52.7	42.4	46.7	768.8	703.3	846.1	906.5	788.0	685.1	528.2	102.6	915.8	930.5	924.3	
93	882.1	74.4	71.7	69.1	70.8	69.7	52.3	54.1	42.6	46.4	768.3	712.9	839.9	907.2	789.5	689.4	550.8	103.8	911.7	932.8	926.4	
94	884.0	75.0	72.1	69.4	71.1	70.1	52.9	53.1	41.5	46.5	769.2	717.0	833.7	905.9	790.6	693.4	573.4	105.0	906.0	933.8	930.9	
95	884.4	75.5	72.6	69.7	71.4	70.5	52.6	53.0	42.3	46.0	768.5	720.3	828.4	901.2	792.5	697.0	586.7	106.7	900.2	934.1	926.2	
96	886.7	76.0	73.1	69.9	71.6	70.9	53.1	54.2	42.2	45.7	767.9	722.8	822.2	904.7	793.8	700.9	604.9	108.9	892.6	935.8	934.6	
97	886.8	76.5	73.7	70.2	71.8	71.3	52.8	54.2	42.6	46.8	---	---	---	---	---	802.1	724.0	697.5	138.6	826.1	945.2	828.8
98	889.7	76.9	74.3	70.5	72.0	71.6	52.0	54.8	42.7	45.1	768.4	728.4	810.0	898.2	788.4	706.8	632.9	115.4	874.7	937.7	831.5	
99	900.0	77.3	74.6	70.8	72.1	71.9	53.5	54.8	43.8	48.0	769.4	731.3	806.4	894.3	797.8	710.0	646.5	119.4	887.1	940.4	833.6	
100	901.1	77.9	75.6	71.1	72.3	72.4	53.3	55.7	44.7	47.2	771.7	734.7	802.2	902.7	798.0	714.0	651.4	123.8	855.6	940.8	833.6	
101	901.5	78.4	76.2	71.4	72.4	72.8	53.9	56.1	43.9	46.9	772.7	737.2	808.6	900.2	800.0	717.8	672.2	128.6	845.1	941.5	832.4	
102	902.1	78.9	76.8	71.6	72.4	73.1	53.6	56.8	44.0	47.5	775.0	739.7	795.2	895.3	800.6	720.8	683.9	133.4				

Table 29. Temperatures Measured in Assembly S-30, Wood Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(FAU) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
0	22.0	25.8	25.9	25.9	25.8	25.8	***	***	25.7	25.7	***	***	25.7	25.7	***	***	25.7	25.6
1	114.2	25.9	26.1	26.2	25.8	25.8	***	***	25.7	25.7	***	***	25.7	25.7	***	***	25.6	25.6
2	223.	25.8	28.5	28.9	25.8	25.8	***	***	26.7	25.7	***	***	25.7	25.6	***	***	25.6	25.6
3	327.4	25.8	50.7	45.4	25.8	25.8	***	***	25.7	25.7	***	***	25.7	25.7	***	***	25.6	25.6
4	425.4	25.8	60.0	70.0	25.8	25.8	***	***	26.7	25.7	***	***	25.7	25.7	***	***	25.7	25.6
5	532.9	25.9	89.5	85.0	25.9	25.8	***	***	25.7	25.7	***	***	25.7	25.7	***	***	25.7	25.6
6	638.9	25.9	92.3	90.3	26.0	25.8	***	***	25.7	25.7	***	***	25.7	25.7	***	***	25.7	25.6
7	660.0	26.2	94.2	93.9	26.8	26.0	***	***	25.7	25.7	***	***	25.8	25.7	***	***	25.7	25.6
8	663.9	26.9	95.7	96.7	29.2	28.5	***	***	25.7	25.7	***	***	25.7	25.7	***	***	25.7	25.6
9	662.7	28.6	96.7	99.9	34.9	27.4	***	***	25.7	25.7	***	***	25.7	25.7	***	***	26.7	25.6
10	688.0	32.3	97.5	103.3	44.3	29.2	***	***	25.8	25.7	***	***	25.7	25.7	***	***	25.8	25.6
11	711.7	38.8	98.1	106.9	55.2	32.5	***	***	25.8	25.8	***	***	25.7	25.7	***	***	26.2	25.6
12	721.4	46.8	98.6	108.7	64.3	37.7	***	***	25.9	26.0	***	***	25.8	25.8	***	***	27.1	25.7
13	731.6	54.7	99.0	111.5	70.1	44.4	***	***	26.3	26.4	***	***	26.0	26.0	***	***	29.0	25.8
14	742.7	60.8	100.5	119.1	73.0	51.8	***	***	27.1	27.2	***	***	26.2	26.3	***	***	31.7	26.1
15	754.5	63.9	113.9	148.0	73.8	56.4	***	***	28.4	28.5	***	***	26.6	26.9	***	***	34.8	28.7
16	761.8	65.0	144.6	196.5	74.5	59.0	***	***	30.1	30.2	***	***	27.1	27.7	***	***	37.8	27.8
17	768.7	66.7	182.0	260.8	76.3	61.5	***	***	32.0	32.0	***	***	27.8	28.7	***	***	40.5	28.7
18	774.6	68.8	221.1	304.9	77.5	63.7	***	***	34.0	33.9	***	***	28.6	29.9	***	***	43.4	30.1
19	783.6	70.9	266.4	357.1	78.1	66.0	***	***	36.0	35.7	***	***	29.5	31.0	***	***	46.3	31.4
20	789.2	72.1	310.9	405.0	78.5	67.6	***	***	38.0	37.6	***	***	30.6	32.3	***	***	48.8	33.0
21	794.3	72.9	351.0	447.1	78.9	68.9	***	***	40.1	39.8	***	***	31.8	33.5	***	***	51.0	34.5
22	800.9	73.8	385.4	481.6	79.4	70.1	***	***	42.0	41.5	***	***	33.0	34.8	***	***	52.8	38.2
23	805.9	74.5	414.9	510.1	79.7	71.3	***	***	44.0	43.3	***	***	34.3	35.9	***	***	54.5	37.7
24	810.6	74.9	440.7	533.3	79.9	72.1	***	***	45.8	45.0	***	***	35.6	37.1	***	***	55.9	39.3
25	815.0	74.9	452.1	551.4	80.9	72.5	***	***	47.6	46.7	***	***	37.0	38.2	***	***	57.1	40.9
26	819.9	74.8	480.7	566.2	80.0	72.7	***	***	49.2	48.1	***	***	38.2	39.2	***	***	58.1	42.4
27	824.9	74.8	497.7	579.4	79.9	73.0	***	***	50.8	49.5	***	***	39.5	40.1	***	***	58.8	43.9
28	829.1	75.0	514.3	592.1	79.9	73.4	***	***	52.2	50.7	***	***	40.7	41.0	***	***	59.5	45.3
29	834.3	75.2	530.8	604.5	79.7	73.9	***	***	53.5	51.8	***	***	41.9	41.9	***	***	60.0	46.5
30	837.6	75.5	547.5	617.4	79.6	74.4	***	***	54.6	52.7	***	***	43.0	42.7	***	***	60.5	47.7
31	841.6	75.9	563.7	629.6	79.7	74.9	***	***	55.7	53.6	***	***	44.1	43.4	***	***	61.0	48.8
32	846.4	76.4	578.5	640.7	79.9	75.5	***	***	56.7	54.5	***	***	45.2	44.1	***	***	61.5	49.8
33	849.5	76.9	592.9	651.5	80.2	76.2	***	***	57.6	55.3	***	***	46.3	44.8	***	***	62.0	50.8
34	852.7	77.5	608.2	661.9	80.5	76.8	***	***	58.5	56.1	***	***	47.2	45.5	***	***	62.5	51.8
35	857.3	78.1	623.2	671.9	80.8	77.4	***	***	59.3	56.9	***	***	48.2	46.1	***	***	63.0	52.6
36	860.3	78.7	637.1	680.4	81.1	78.1	***	***	60.0	57.6	***	***	49.1	46.7	***	***	63.5	53.5
37	862.2	79.4	650.6	689.4	81.6	78.8	***	***	60.7	58.4	***	***	50.1	47.3	***	***	64.1	54.4
38	867.6	80.1	684.0	689.0	82.1	79.6	***	***	61.4	59.1	***	***	51.0	47.9	***	***	64.6	55.2
39	870.3	80.8	677.0	708.2	82.7	80.4	***	***	62.0	59.8	***	***	51.8	48.4	***	***	65.1	56.0
40	873.1	81.6	689.5	716.0	83.4	81.2	***	***	62.7	60.5	***	***	52.6	49.0	***	***	65.6	56.8
41	874.8	82.4	701.3	724.3	84.3	82.1	***	***	63.3	61.2	***	***	53.5	49.5	***	***	66.2	57.6
42	879.3	83.3	712.8	731.2	85.3	83.0	***	***	63.9	61.8	***	***	54.2	60.0	***	***	66.7	58.3
43	881.6	84.2	723.9	738.5	86.4	83.9	***	***	64.5	62.4	***	***	55.0	50.5	***	***	67.2	59.0
44	883.7	85.3	733.7	745.7	87.9	85.0	***	***	65.0	63.0	***	***	55.8	51.0	***	***	67.8	59.8
45	885.9	86.6	742.9	752.8	90.0	86.1	***	***	65.6	63.7	***	***	56.7	51.5	***	***	68.3	60.5
46	890.7	88.1	751.5	758.7	93.0	87.2	***	***	66.0	64.3	***	***	57.4	51.9	***	***	68.8	61.2
47	892.8	90.0	760.0	763.5	97.5	88.6	***	***	66.5	64.8	***	***	58.1	52.4	***	***	69.2	61.8
48	894.9	92.5	769.2	768.3	104.0	89.9	***	***	66.9	65.4	***	***	58.8	52.9	***	***	69.7	62.5
49	897.3	95.8	777.6	773.4	113.3	91.4	***	***	67.3	65.9	***	***	59.4	53.3	***	***	70.2	63.1
50	900.6	100.0	785.6	778.9	125.9	93.2	***	***	67.7	66.4	***	***	60.0	53.8	***	***	70.6	63.8
51	901.1	105.4	793.2	786.1	142.4	95.5	***	***	68.1	66.9	***	***	60.6	54.2	***	***	71.1	64.4
52	906.0	111.9	799.8	791.8	163.5	98.5	***	***	68.5	67.3	***	***	61.1	54.7	***	***	71.5	65.0
53	906.6	119.6	805.6	796.3	169.1	102.3	***	***	68.9	67.9	***	***	61.6	55.1	***	***	71.9	65.5
54	908.5	128.5	811.3	799.9	219.1	107.2	***	***	69.3	68.3	***	***	62.0	55.6	***	***	72.3	66.1
55	909.9	138.6	817.0	804.9	253.5	113.3	***	***	69.7	68.8	***	***	62.4	56.0	***	***	72.7	66.6
56	913.4	149.8	823.0	808.2	290.9	120.8	***	***	70.1	69.2	***	***	62.8	56.4	***	***	73.0	67.1
57	916.0	162.1	829.7	811.1	391.2	129.6	***	***	70.4	69.6	***	***	63.1	56.8	***	***	73.4	67.7

Table 30. Average Temperatures Measured in Assembly S-30, Wood Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(18,19,22,23)	BL/Std. (Exp.) Av(12,13)	Mid Std. Av(10,11,14,15)	BL/Cav. (UnExp.) Av(20,21,24,25)	BL/Std. (UnExp.) Av(16,17)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
0	32.9	26.0	25.8	25.7	25.8	25.9	25.7	25.8
1	114.2	26.4	25.8	25.7	25.9	25.9	25.7	25.8
2	223.1	30.9	26.4	25.7	25.8	25.9	25.7	25.8
3	327.4	52.2	31.7	25.7	25.8	25.9	25.7	25.8
4	425.4	77.7	46.3	25.8	25.8	25.9	25.7	25.8
5	532.9	89.5	60.8	26.3	25.9	25.9	25.7	25.8
6	638.9	93.2	67.0	29.5	26.0	25.9	25.7	25.8
7	600.0	96.5	72.3	38.6	26.5	25.9	25.7	25.8
8	632.9	100.1	78.3	52.8	28.0	25.9	25.7	25.8
9	662.7	103.6	87.4	67.0	31.4	26.0	25.7	25.8
10	698.0	106.6	90.9	77.6	37.3	26.2	25.7	25.8
11	721.7	109.1	92.1	84.3	44.8	26.7	25.8	25.8
12	721.4	111.2	92.2	87.9	52.5	27.7	26.1	25.8
13	731.8	115.0	91.8	89.3	59.0	29.4	26.6	25.9
14	742.7	124.8	91.1	89.1	63.8	31.7	27.4	26.0
15	754.5	158.3	89.1	87.3	66.1	34.0	28.7	26.2
16	761.9	205.3	88.7	86.0	67.3	36.5	30.1	26.5
17	768.7	258.5	90.2	87.9	69.5	39.5	31.6	27.0
18	774.8	303.4	93.7	87.8	71.2	41.9	33.3	27.6
19	783.8	354.2	110.9	87.3	72.6	44.0	35.0	28.3
20	789.1	398.3	123.6	86.9	73.5	45.9	36.7	29.2
21	794.3	436.9	134.3	87.0	74.3	47.8	38.4	30.1
22	800.8	489.6	145.3	86.9	75.0	49.4	40.0	31.2
23	805.9	497.4	156.4	86.7	75.8	50.8	41.6	32.3
24	810.8	520.9	166.6	86.7	76.3	51.9	43.1	33.4
25	815.0	540.1	176.1	86.6	76.5	53.0	44.6	34.6
26	819.9	556.2	185.4	86.4	76.6	53.9	45.9	35.7
27	824.9	570.5	194.4	86.4	76.7	54.7	47.1	36.8
28	828.1	584.1	203.4	86.5	76.8	55.5	48.2	37.9
29	834.3	597.1	212.3	87.0	77.0	56.1	49.3	39.0
30	837.5	610.3	220.9	87.4	77.2	56.7	50.2	40.1
31	841.5	622.7	227.9	87.9	77.5	57.3	51.1	41.1
32	846.4	634.1	234.1	88.3	77.9	57.9	52.0	42.0
33	849.5	645.2	241.3	88.7	78.4	58.4	52.8	42.8
34	852.7	656.3	249.3	88.9	78.8	58.9	53.6	43.6
35	857.9	667.0	257.7	89.1	79.3	59.3	54.3	44.4
36	860.3	677.0	266.8	89.3	79.8	59.9	55.1	45.2
37	862.2	687.0	276.3	89.4	80.4	60.3	55.8	45.9
38	867.5	687.0	286.2	89.6	81.1	60.7	56.5	46.5
39	870.6	706.8	295.9	89.8	81.8	61.1	57.2	47.2
40	873.1	716.2	306.0	90.1	82.5	61.6	57.9	47.8
41	874.8	725.3	313.8	90.4	83.4	62.0	58.6	48.4
42	879.0	734.1	320.4	90.8	84.3	62.4	59.2	48.9
43	881.5	743.0	330.1	91.1	85.3	62.8	59.8	49.5
44	883.7	751.5	334.4	91.7	86.5	63.2	60.4	50.0
45	885.9	759.3	340.7	92.5	87.9	63.8	61.0	50.6
46	890.7	766.8	348.0	93.8	89.7	64.1	61.6	51.2
47	892.6	773.8	356.4	95.8	92.1	64.5	62.2	51.6
48	894.9	781.0	363.6	98.7	95.2	64.8	62.7	52.0
49	897.3	787.6	369.7	102.7	99.3	65.2	63.2	52.5
50	900.8	793.8	375.6	108.6	104.7	65.6	63.7	53.0
51	901.1	799.5	381.2	116.7	111.7	66.0	64.2	53.5
52	906.0	805.2	387.5	128.8	120.6	66.4	64.7	54.0
53	906.8	810.7	398.6	139.3	131.5	66.8	65.2	54.4
54	909.5	816.1	403.3	150.4	144.5	67.2	65.6	54.8
55	909.9	820.8	408.9	163.6	159.7	67.6	66.0	55.1
56	911.4	826.1	412.8	178.1	176.8	67.9	66.4	55.4
57	918.0	831.3	416.6	193.7	195.9	68.3	66.8	55.8

Table 30. Average Temperatures Measured in Assembly S-30, Wood Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(18,19,22,23)	BL/Std. (Exp.) Av(12,13)	Mid Std. Av(10,11,14,15)	BL/Cav. (UnExp.) Av(20,21,24,25)	BL/Std. (UnExp.) Av(16,17)	BL/FL (UnExp.) Av(28,29,32,33,34,37)	UnExp. Av(1,2,3,4,5)
58	917.7	836.1	420.3	210.6	216.5	68.6	67.2	56.1
59	919.5	842.3	423.6	227.9	237.9	69.0	67.5	56.5
60	922.2	847.1	426.7	247.0	280.7	69.4	67.9	56.9
61	924.2	852.8	430.1	268.3	284.4	69.8	68.3	57.2
62	926.3	858.8	433.3	291.8	309.1	70.2	68.7	57.6
63	928.4	869.1	435.8	318.4	336.4	70.5	69.1	57.9
64	929.2	876.1	438.0	345.5	368.4	70.9	69.4	58.1
65	932.0	882.5	440.6	370.5	404.8	71.3	69.8	58.4
66	933.8	886.9	445.2	397.3	447.9	71.7	70.1	58.6
67	936.4	895.7	449.4	424.1	483.1	72.1	70.5	58.8
68	937.6	898.8	454.3	449.2	507.6	72.5	70.9	59.1
69	939.2	905.1	458.5	472.7	528.5	73.1	71.2	59.5
70	940.8	908.2	464.4	492.1	544.5	73.6	71.6	59.8
71	943.4	910.0	472.0	504.3	559.9	74.1	72.1	60.0
72	944.0	912.4	483.3	515.8	573.5	74.8	72.7	60.2
73	943.5	909.7	497.0	531.5	595.6	75.5	73.2	60.6
74	947.0	909.3	515.2	546.0	598.1	76.3	73.8	61.0
75	948.4	911.4	541.4	560.5	610.2	77.1	74.3	61.4
76	951.8	914.0	578.5	573.2	621.4	78.0	74.9	61.7
77	952.9	918.6	586.7	585.3	632.2	79.1	75.4	62.0
78	956.5	917.8	876.7	598.7	642.7	80.4	76.0	62.4
79	955.8	919.3	873.8	611.6	652.4	81.5	76.4	62.8
80	957.0	918.0	895.0	624.1	660.9	82.5	76.8	63.2
81	959.6	921.0	897.6	636.5	669.8	83.8	77.2	63.5
82	960.1	923.5	899.3	649.9	676.2	86.8	77.8	63.8
83	960.0	900.4	896.1	680.9	685.2	90.2	78.4	64.2
84	963.8	900.1	896.8	671.0	692.7	94.7	79.1	64.6
85	964.5	904.5	900.9	678.1	698.7	100.3	79.6	65.0
86	967.4	906.9	897.3	687.1	705.9	107.7	80.0	65.4
87	970.7	906.6	900.6	692.9	711.4	116.5	80.8	65.8
88	968.8	910.0	899.3	699.6	716.0	128.6	80.8	66.2
89	973.6	909.2	898.2	706.4	721.9	145.7	81.3	66.8
90	974.0	908.5	892.4	711.6	724.7	166.0	81.9	67.3
91	974.0	913.8	893.1	715.8	728.8	189.0	82.5	67.8
92	976.4	908.6	889.8	720.2	732.6	214.4	83.2	68.4
93	976.1	909.7	889.2	723.6	738.3	240.3	84.0	68.9
94	979.0	909.3	886.1	727.5	739.5	263.6	84.9	69.4
95	979.1	908.3	884.5	731.2	742.0	283.8	85.6	69.9
96	979.3	908.8	879.9	734.5	745.2	300.9	86.5	70.3
97	980.5	908.4	876.3	737.5	748.2	315.4	87.4	70.7
98	982.1	908.6	873.5	740.1	750.8	327.3	88.4	71.2
99	984.0	908.9	869.8	742.6	759.9	338.2	89.3	71.5
100	984.4	908.6	864.8	744.6	754.9	347.7	90.0	71.9
101	986.7	907.4	863.5	748.3	758.7	356.9	90.7	72.3
102	986.8	901.1	***	***	759.8	***	91.3	72.7
103	989.7	904.1	854.6	750.0	761.5	374.1	92.0	73.1
104	990.0	904.1	855.3	752.1	763.9	382.9	92.6	73.4
105	991.1	901.3	852.4	754.9	766.6	392.6	93.3	73.8
106	991.6	898.2	849.4	756.9	767.6	400.4	94.0	74.2
107	993.1	895.8	845.3	759.0	768.0	408.6	94.9	74.6
108	994.7	894.6	845.6	761.9	769.5	418.1	95.8	74.9
109	994.8	892.8	844.8	764.5	770.9	427.8	96.6	75.3
110	997.0	891.3	843.5	767.0	770.2	436.9	97.5	75.6
111	998.1	885.6	840.7	768.9	772.5	445.5	98.4	76.0
112	997.2	862.8	839.4	770.3	773.4	452.7	99.3	76.4
113	995.8	860.1	837.4	771.8	773.8	458.2	100.2	76.8
114	1000.1	859.5	835.7	773.4	776.7	467.8	101.4	77.2
115	1000.3	862.3	835.6	775.0	778.5	475.7	102.5	77.5

Table 30. Average Temperatures Measured in Assembly S-30, Wood Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, Std. - Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(18,19,22,23)	BL/Std. (Exp.) Av(12,13)	Mid Std. Av(10,11,14,15)	BL/Cav. (UnExp.) Av(20,21,24,25)	BL/Std. (UnExp.) Av(16,17)	BL/FL (UnExp.) Av(26,29,32,33,34,37)	UnExp. Av(1,2,3,4,5)
116	1000.7	861.8	834.8	776.6	779.7	483.7	103.8	77.9
117	1001.3	862.2	836.1	776.5	780.9	491.6	105.4	78.5
118	1003.6	865.1	847.0	781.6	784.6	498.7	106.9	78.8
119	1004.5	866.8	850.2	788.4	797.4	506.9	108.6	79.4
120	1004.3	866.9	852.2	788.4	788.9	511.3	111.0	79.9
121	1005.1	868.1	852.8	788.8	791.3	517.3	114.0	80.4
122	1009.5	869.7	853.4	790.8	793.2	523.1	117.4	80.9
123	1008.1	870.1	852.9	791.4	794.0	528.3	121.1	81.4
124	1007.6	871.8	853.1	792.1	795.5	534.5	124.4	82.0
125	1008.8	872.7	854.2	792.8	797.3	540.7	127.3	82.6
126	1009.4	873.4	855.4	793.2	798.3	547.2	130.9	83.3
127	1010.1	873.5	853.3	794.1	799.6	555.1	135.2	84.0
128	1009.3	875.0	851.4	795.4	800.6	563.5	140.1	84.7
129	1011.4	876.7	850.7	795.9	802.0	573.1	145.4	85.4
130	1011.8	877.1	853.9	797.5	801.7	580.3	151.9	86.3
131	1013.0	878.2	854.6	798.1	804.8	588.5	160.0	87.1
132	1013.3	880.9	856.2	798.1	807.0	596.7	167.7	88.1
133	1014.3	882.0	855.8	799.1	808.0	607.1	175.6	89.3
134	1015.6	884.9	856.6	799.8	809.7	611.8	183.1	90.7
135	1015.6	886.4	858.4	801.0	809.9	620.3	189.6	91.9
136	1015.6	889.8	861.3	802.3	813.2	631.2	195.6	93.2
137	1015.9	***	***	***	***	***	220.4	94.3
138	1017.2	893.9	863.4	804.6	819.7	660.8	208.0	95.2
139	1018.3	893.3	865.0	806.1	825.2	674.2	214.1	96.0
140	1018.2	897.0	866.9	807.0	827.4	687.1	220.0	96.7
141	1018.7	898.8	868.3	808.0	830.4	697.7	225.7	97.4
142	1020.9	899.4	871.5	809.3	830.8	702.2	231.6	98.0
143	1020.0	899.3	872.4	810.1	832.0	707.1	237.6	98.5
144	1022.0	900.7	873.6	811.2	830.8	714.1	243.9	99.1
145	1023.1	897.2	875.9	812.9	837.2	721.8	250.5	99.6
146	1023.9	895.3	875.7	813.3	840.1	728.2	256.6	100.1
147	1021.6	890.2	875.1	813.9	841.3	732.5	263.7	100.7
148	1022.7	890.2	876.3	814.3	842.6	739.0	270.8	101.4
149	1026.3	890.8	880.1	815.9	845.0	746.1	278.2	102.1
150	1024.9	880.3	880.9	819.0	847.8	751.8	285.2	102.9
151	1026.7	894.1	880.7	819.8	849.5	756.4	292.2	103.8
152	1026.4	888.3	886.5	819.7	851.5	760.1	301.0	104.7
153	1028.2	896.8	871.1	823.9	846.8	777.2	312.0	105.7
154	1028.2	899.1	871.1	822.4	848.9	780.5	319.0	106.8
155	1032.0	888.5	873.1	823.7	854.4	791.3	327.4	108.1
156	1030.8	882.8	872.1	824.6	859.7	792.6	337.4	109.6
157	1030.3	877.7	876.2	828.0	860.5	795.7	351.4	111.4
158	1031.7	880.9	875.7	830.6	858.8	800.3	365.8	113.5
159	1032.2	873.7	875.3	830.6	867.7	802.1	381.3	116.3
160	1031.5	900.2	874.8	830.2	868.2	803.8	394.7	120.3
161	1033.8	900.4	878.4	831.8	867.8	805.7	408.4	125.1
162	1034.2	901.1	880.0	832.6	864.7	807.3	422.2	132.1
163	1032.7	891.3	881.5	833.5	870.8	809.1	436.4	142.7
164	1035.0	886.5	883.2	834.1	885.5	810.4	451.1	157.3
165	1034.9	881.6	886.1	836.2	887.1	810.1	465.9	175.2
166	894.3	881.6	877.5	831.8	869.2	803.0	476.2	197.7
167	872.2	839.1	852.4	817.4	840.2	784.0	555.4	61.3
168	828.1	***	***	***	***	***	***	27.8
169	792.3	***	***	***	***	***	***	26.9

Table 31. Temperatures Measured in Assembly S-41, Steel Stud, 1x2 Gypsum Board Layers, No Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	37.3	24.0	24.3	23.9	23.6	24.1	24.0	24.0	23.7	23.8	24.4	24.0	24.5	24.3	24.4	24.1	24.7	24.3	25.1	24.9	24.6
1	304.5	24.0	24.3	23.9	23.6	24.1	24.2	24.1	23.8	24.0	24.4	24.1	24.8	24.6	24.4	24.1	24.8	24.4	26.1	25.9	24.7
2	417.6	24.0	24.3	23.9	23.8	24.1	24.1	24.1	23.8	23.9	25.7	25.1	37.2	31.5	25.0	24.3	28.1	25.6	45.6	43.0	25.5
3	480.3	24.0	24.2	23.9	23.8	24.1	23.9	24.0	23.7	23.8	42.9	31.1	79.3	65.2	36.1	28.0	49.2	32.1	77.3	70.7	34.9
4	534.5	24.0	24.3	23.9	23.8	24.0	23.9	24.0	23.7	23.9	66.8	48.0	97.1	97.5	59.1	40.2	70.2	47.8	88.1	84.5	52.8
5	558.7	24.0	24.2	23.9	23.8	24.0	23.9	24.0	23.7	23.9	75.4	60.6	97.4	97.2	68.6	51.6	76.9	59.3	91.4	88.3	63.1
6	587.5	24.0	24.3	23.9	23.8	24.1	23.9	24.1	23.8	23.9	78.7	67.1	97.3	97.1	73.2	58.5	79.1	65.2	92.7	89.3	67.9
7	613.2	24.1	24.4	24.0	23.8	24.2	24.1	24.3	23.8	24.0	80.3	70.6	96.9	96.4	75.5	62.3	79.9	68.1	93.0	89.9	70.6
8	640.2	24.3	24.8	24.1	24.0	24.5	24.4	24.6	24.0	24.3	81.4	73.3	96.4	95.3	76.8	65.0	80.7	70.6	93.6	90.9	72.2
9	661.5	24.6	25.4	24.5	24.2	25.1	24.9	25.2	24.3	24.7	83.2	75.8	96.3	95.1	77.6	67.6	80.8	73.0	94.2	92.1	73.1
10	676.9	25.2	26.3	24.9	24.6	25.9	25.7	25.9	24.8	25.3	84.9	78.2	96.3	95.2	78.7	70.1	84.4	75.5	94.7	93.2	74.0
11	688.2	26.0	27.5	25.6	25.2	27.0	26.5	26.9	25.3	26.1	86.6	80.4	96.4	95.6	79.9	72.4	86.8	77.6	95.6	94.1	75.2
12	700.0	27.0	28.9	26.5	25.9	28.4	27.7	28.0	26.0	27.0	88.2	82.7	96.6	96.1	81.2	74.6	88.7	79.7	97.4	94.7	76.4
13	711.3	28.2	30.5	27.5	26.9	30.0	28.7	29.2	26.7	28.1	90.1	85.1	98.0	97.0	82.2	76.5	90.7	81.8	103.1	95.8	77.7
14	723.6	29.6	32.2	28.7	28.0	31.7	30.2	30.8	27.9	29.5	91.9	87.7	103.1	99.8	83.2	78.3	93.8	84.1	112.1	99.9	78.8
15	736.2	31.2	34.1	30.1	29.2	33.6	31.0	31.7	28.7	30.5	94.2	90.5	116.6	110.1	84.0	80.0	97.4	88.6	119.0	111.8	79.7
16	745.4	32.9	36.0	31.7	30.6	35.6	32.1	33.1	29.8	31.7	98.3	93.8	140.1	129.9	84.8	81.5	100.5	89.2	123.9	119.8	81.0
17	754.1	34.8	38.1	33.4	32.2	37.7	33.7	34.6	30.9	33.2	103.2	97.5	159.2	144.3	85.2	82.6	103.3	91.3	127.7	124.0	82.0
18	762.7	36.7	40.0	35.2	33.9	39.9	34.6	35.9	32.4	34.2	108.8	101.5	177.9	158.3	85.9	83.8	106.5	93.4	132.6	128.2	83.1
19	770.9	38.7	42.0	37.2	35.8	42.0	35.9	37.1	33.6	36.0	115.2	106.0	197.2	175.3	86.8	85.0	111.6	95.9	140.1	134.4	85.0
20	779.2	40.7	43.9	39.2	37.7	44.1	36.6	38.5	35.0	37.6	123.0	111.3	219.5	196.5	87.3	85.6	121.8	99.4	154.4	142.4	88.6
21	786.2	42.5	45.7	41.1	39.7	46.1	38.9	39.6	36.3	38.9	135.4	119.0	246.0	219.7	87.8	85.9	137.7	105.6	187.0	163.9	94.8
22	792.5	44.4	47.4	43.1	41.7	48.0	38.3	41.0	38.1	40.1	152.0	129.4	275.3	244.0	98.3	91.4	157.8	116.4	221.7	196.4	103.3
23	797.8	46.3	49.2	45.1	43.7	49.8	39.2	41.9	38.9	41.4	169.5	143.0	303.7	268.4	111.1	101.5	180.8	131.1	254.5	223.0	114.6
24	803.6	48.3	51.0	47.1	45.6	51.6	40.5	43.3	40.1	42.5	187.6	159.6	327.7	295.0	125.8	113.8	204.3	147.3	285.7	247.9	128.3
25	810.0	50.3	52.9	49.2	47.5	53.4	42.0	45.1	41.7	44.1	206.0	177.3	350.9	320.1	141.0	128.5	223.7	164.1	310.6	269.6	142.7
26	815.3	52.4	54.8	51.3	49.4	55.2	43.2	46.3	43.0	45.0	221.8	193.5	368.9	341.4	154.2	142.3	240.8	178.8	329.9	287.7	156.3
27	819.6	54.9	57.0	53.5	51.4	57.1	44.6	48.3	44.2	46.5	235.2	205.8	382.6	356.8	162.7	153.9	252.8	190.4	345.4	302.2	168.7
28	824.0	57.8	59.3	55.8	53.4	59.3	46.4	50.6	46.5	48.5	247.3	215.5	396.7	374.3	169.3	163.7	264.1	199.9	359.4	314.1	178.3
29	828.1	60.5	61.6	58.4	55.7	61.6	48.1	51.8	47.9	49.6	257.3	223.5	408.6	384.0	176.2	170.6	273.2	208.6	370.7	324.9	186.4
30	833.7	62.8	63.5	61.3	58.1	64.0	49.4	53.7	50.2	51.6	266.9	230.7	394.1	383.7	183.7	176.7	281.8	217.3	380.2	335.6	192.9
31	837.3	64.9	65.2	63.9	60.5	66.0	50.0	54.6	51.2	52.9	274.9	237.9	434.5	402.5	191.2	182.6	269.7	225.2	388.5	344.9	200.0
32	841.6	66.4	66.6	65.9	62.6	67.6	51.0	56.1	52.6	54.4	283.1	244.7	443.7	409.0	198.7	188.8	297.2	232.5	395.9	353.3	206.0
33	845.3	67.6	67.8	67.7	64.5	69.1	51.2	56.4	53.7	55.1	290.7	251.5	451.1	416.6	206.1	194.9	303.9	239.6	402.4	380.0	212.5
34	849.0	68.5	68.8	69.1	66.0	70.3	51.6	57.8	54.6	56.0	297.0	257.9	458.4	423.2	213.3	201.3	309.7	246.2	408.1	365.8	218.1
35	853.0	69.2	69.6	70.2	67.3	71.2	52.6	58.1	55.2	57.2	302.5	264.0	464.2	426.2	220.3	207.7	313.7	252.7	412.9	371.0	223.2
36	855.9	69.8	70.3	71.1	68.5	72.1	54.1	58.9	55.6	57.7	308.4	269.6	468.3	431.4	227.0	213.9	318.7	259.0	417.4	375.2	228.4
37	859.6	70.3	70.9	71.8	69.4	72.6	52.7	58.5	56.0	58.5	315.3	275.6	488.9	455.4	234.2	220.4	323.5	264.7	421.3	379.4	233.5
38	863.7	70.7	71.3	72.3	70.1	73.1	54.0	59.2	56.2	58.7	323.6	283.5	502.3	470.6	242.1	227.8	329.1	270.0	424.0	383.5	239.3
39	866.1	70.9	71.8	72.7	70.6	73.5	55.0	59.5	56.5	59.4	332.0	292.1	514.1	483.6	250.3	235.9	334.7	275.5	425.7	387.8	244.9
40	869.1	71.1	72.1	72.9	70.9	73.7	54.3	59.5	56.2	59.3	339.6	300.1	524.4	493.5	258.8	243.8	339.9	280.9	427.8	392.1	250.9
41	872.3	71.2	72.3	73.1	71.1	73.8	54.3	59.2	56.1	59.1	346.1	307.3	533.1	501.7	266.9	251.6	344.7	286.2	429.9	396.3	256.6
42	875.3	71.3	72.6	73.4	71.2	73.9	54.7	59.6	56.2	59.4	353.0	313.8	538.3	506.6	274.8	258.8	349.7	291.8	431.9	400.5	263.0
43	879.2	71.4	72.9	73.7	71.2	73.9	55.2	59.6	56.8	59.4	359.0	319.9	549.2	514.5	283.1	266.2	354.5	296.7	434.6	404.4	267.9
44	881.2	71.5	73.0	73.9	71.3	73.9	54.4	59.9	56.5	59.4	365.0	325.5	555.9	519.5	291.1	273.1	359.2	302.1	436.8	408.1	273.3
45	884.2	71.5	73.1	74.0	71.2	73.9	54.7	60.3	56.9	59.9	370.9	330.6	561.8	522.7	298.8	280.1	363.9	307.3	439.3	411.6	278.9
46	887.3	71.4	73.1	74.1	71.2	73.9	54.0	59.7	56.2	59.3	375.8	335.7	566.7	525.8	306.0	287.1	369.4	311.8	441.3	414.5	284.8
47	889.1	71.4	73.1	74.2	71.1	73.8	55.1	59.8	57.0	59.8	380.8	340.7	577.6	534.6	313.1	294.1	375.3	316.5	441.7	417.3	291.1
48	891.4	71.2	73.1	74.2	71.0	73.7	52.8	59.5	55.5	59.4	386.0	345.5	582.2	540.1	320.2	300.9	380.8	321.2	442.1	419.7	297.0
49	894.3	71.2	73.1	74.3	70.9	73.7	54.3	59.3	56.5	59.1	390.5	350.3	586.5	545.4	327.1	307.7	385.5	326.0	443.9	422.4	303.1
50	896.4	71.1	73.0	74.2	70.7	73.6	54.0														

Table 31. Temperatures Measured in Assembly S-41, Steel Stud, 1x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	914.0	71.3	72.9	74.0	70.5	73.8	54.6	59.9	55.8	59.8	428.9	382.6	625.2	579.9	379.8	356.7	421.2	366.3	471.6	438.2	344.4
59	916.5	71.1	72.9	74.2	70.7	73.8	44.9	57.2	54.4	59.5	433.1	385.4	629.5	576.1	384.6	361.0	424.6	370.3	474.7	439.5	349.3
60	918.0	71.1	73.1	74.1	70.9	73.9	55.4	59.8	56.8	59.6	437.5	388.5	632.3	579.1	389.9	365.5	427.7	374.2	477.8	441.3	354.2
61	920.0	71.1	73.5	74.2	71.2	74.1	55.6	60.3	57.0	60.7	441.2	391.5	635.2	581.0	394.5	369.9	430.5	378.1	480.9	442.2	358.9
62	921.9	71.0	73.5	74.3	71.5	74.2	54.7	59.4	56.2	59.8	445.0	394.6	635.8	581.6	399.5	374.4	434.3	381.4	483.9	443.4	363.5
63	924.6	70.9	73.8	74.4	71.7	74.4	55.6	59.8	56.6	60.2	448.9	397.3	636.0	582.6	404.5	378.5	437.6	385.1	487.1	446.0	368.1
64	925.0	71.0	74.4	74.7	72.2	74.7	55.7	59.7	55.6	60.4	452.7	400.1	639.7	585.1	411.2	382.5	441.0	388.7	490.3	448.9	372.8
65	927.2	71.2	75.1	75.0	72.6	75.0	55.0	60.4	56.3	60.2	456.3	402.7	645.8	587.4	417.9	386.4	442.2	392.1	493.3	451.6	377.5
66	928.9	71.9	75.9	75.6	73.3	75.5	55.2	60.5	56.1	61.0	460.6	405.2	656.9	589.9	424.9	390.2	447.9	395.3	496.3	454.1	382.4
67	931.1	72.5	76.8	76.2	73.9	76.0	55.4	60.4	56.7	61.1	464.4	407.9	653.5	590.1	431.1	394.1	450.6	398.3	499.4	456.9	387.2
68	933.2	73.2	77.7	76.8	74.5	76.7	55.4	60.1	56.0	60.6	468.8	410.8	660.9	594.3	436.7	398.2	453.3	401.3	501.8	459.3	391.9
69	933.8	74.3	78.6	77.6	75.3	77.5	56.1	60.4	56.6	61.8	473.2	413.4	667.0	597.8	442.2	402.5	456.1	404.2	504.3	462.2	396.1
70	936.2	75.3	79.7	78.4	76.1	79.5	55.6	60.6	56.5	61.0	478.0	416.0	669.7	599.6	447.7	407.3	458.5	407.1	506.2	464.6	400.5
71	938.5	76.6	80.9	79.3	77.0	79.6	56.3	60.9	57.1	62.2	481.9	418.0	676.5	602.8	452.5	411.8	461.5	408.9	508.1	467.0	404.6
72	938.9	78.9	82.3	80.4	78.0	81.0	56.2	60.6	57.1	62.1	485.9	420.5	681.8	606.4	457.1	416.7	464.6	411.6	510.1	469.5	409.0
73	940.7	82.0	84.6	81.5	79.0	82.9	43.3	60.3	55.5	60.7	489.3	422.9	686.0	607.8	461.5	421.2	467.6	414.1	512.1	472.0	413.5
74	942.7	84.7	86.9	82.7	80.1	85.4	46.8	38.5	56.6	62.9	492.6	425.5	685.0	609.3	465.8	425.1	470.4	417.0	513.7	474.8	418.5
75	943.7	87.0	88.8	84.0	81.3	87.6	49.5	48.0	55.9	63.2	496.7	428.5	689.2	613.6	470.4	427.6	473.1	421.1	514.8	477.6	423.3
76	945.6	88.8	90.3	85.7	82.7	89.2	47.1	53.9	56.0	64.1	500.5	431.1	689.5	614.2	475.3	430.1	475.9	423.7	515.8	480.4	428.4
77	946.8	90.3	91.6	87.9	84.5	90.7	50.1	54.5	56.4	65.5	503.9	434.0	696.4	618.8	480.4	433.4	478.8	426.8	516.5	489.1	433.3
78	948.1	91.4	92.6	89.8	86.4	91.8	49.4	54.6	57.0	65.8	508.1	437.2	699.7	630.5	486.2	436.9	481.9	429.7	517.6	485.7	437.6
79	949.7	92.3	93.2	91.4	88.0	92.7	49.6	54.9	56.8	65.1	512.1	441.1	697.4	635.7	491.3	441.3	485.0	432.9	519.0	488.1	441.6
80	951.1	93.2	93.9	92.9	93.5	50.2	56.8	59.9	67.4	515.2	444.3	704.9	644.3	497.0	444.5	487.7	436.2	520.7	490.2	445.2	
81	952.3	94.1	94.4	94.0	90.4	94.4	50.7	56.4	60.3	66.5	518.9	447.6	704.9	643.4	501.9	448.0	490.7	439.4	522.7	493.3	448.9
82	953.8	94.9	95.0	94.9	91.2	95.4	50.8	56.2	60.7	66.6	522.0	450.8	711.8	647.5	505.9	451.3	493.2	442.3	524.8	494.2	452.3
83	955.5	95.7	95.5	95.6	91.9	96.3	51.7	57.8	62.0	66.5	525.0	453.9	714.8	649.9	509.2	454.3	496.0	445.8	527.1	496.2	455.6
84	957.7	96.3	96.1	92.4	97.1	51.0	57.5	61.2	66.6	527.9	456.9	716.6	651.3	512.4	457.2	498.7	448.9	529.6	498.1	458.8	
85	959.0	96.9	96.6	96.8	93.1	97.7	51.9	59.1	62.6	66.7	531.1	460.2	719.8	651.6	517.1	461.1	501.7	452.1	532.2	500.1	462.1
86	960.4	97.4	97.1	97.4	93.9	98.3	52.4	59.3	62.6	66.6	533.9	463.7	724.5	655.0	521.2	464.6	504.7	455.1	534.8	502.1	465.4
87	961.6	97.9	97.6	98.0	94.6	99.0	53.7	60.2	64.3	67.8	536.5	466.6	722.1	651.7	524.5	467.7	507.3	458.3	537.4	504.4	468.4
88	963.1	98.3	98.0	98.7	95.3	99.5	54.0	61.3	65.9	68.3	538.9	469.7	729.5	657.8	527.6	469.0	510.0	460.9	539.8	506.5	471.3
89	964.9	98.7	98.3	99.0	95.8	100.0	53.5	60.8	66.9	67.3	542.3	473.1	731.5	660.0	531.9	472.3	513.0	463.6	542.4	508.5	474.3
90	966.1	99.0	98.7	99.5	96.2	100.4	55.1	61.2	67.4	69.3	545.6	476.3	734.9	663.0	535.3	475.9	515.5	466.4	544.9	510.7	477.1
91	967.7	99.3	99.0	99.9	96.6	100.8	53.9	61.1	68.4	68.4	548.2	479.4	735.4	664.1	538.1	479.7	517.5	468.9	547.2	513.0	479.6
92	968.6	99.6	99.3	100.2	97.0	101.2	55.2	61.7	70.4	69.9	551.4	482.5	741.5	670.3	541.2	483.1	520.3	471.5	549.6	515.4	482.4
93	969.2	100.0	99.6	100.5	97.4	101.6	55.3	61.4	69.9	69.3	554.4	485.6	744.2	671.6	543.3	486.7	523.1	474.3	552.0	517.8	485.2
94	970.3	100.3	99.9	100.8	97.8	101.9	56.6	62.2	71.4	70.3	557.3	488.8	746.3	673.4	547.2	490.4	525.6	476.6	554.4	520.0	487.9
95	971.5	100.7	100.3	98.1	102.3	54.9	63.2	72.3	71.2	560.0	491.9	749.5	675.9	549.7	493.8	528.1	479.3	556.7	522.3	490.4	
96	972.7	101.2	100.7	101.4	98.4	102.7	56.2	63.0	73.0	72.0	562.7	494.6	749.5	675.5	552.5	496.8	530.6	481.8	559.0	524.6	493.0
97	974.4	101.6	101.1	101.8	98.7	103.1	56.4	63.3	74.2	71.9	565.1	497.4	754.7	680.0	555.1	499.7	533.1	484.3	561.1	527.0	495.4
98	975.3	102.0	101.4	102.1	98.9	103.5	55.4	63.3	73.6	73.1	568.2	500.3	757.3	685.4	558.3	503.2	535.8	487.2	563.4	529.5	498.0
99	976.8	102.5	101.9	102.4	99.2	103.9	58.4	62.8	73.9	73.2	570.9	503.4	758.4	684.5	560.6	506.5	538.0	489.7	565.7	532.0	500.4
100	977.7	102.9	102.4	102.7	99.5	104.5	57.5	64.2	74.3	73.9	572.9	506.0	759.6	684.8	562.7	509.6	539.8	491.7	567.5	534.2	502.4
101	978.6	103.5	102.9	103.1	99.8	105.0	57.6	64.2	74.9	74.0	575.5	508.8	765.8	689.5	565.5	510.7	542.4	494.7	569.5	536.6	504.8
102	980.1	104.1	103.5	103.4	100.1	105.6	59.9	66.4	77.0	76.8	578.2	511.8	767.7	691.0	568.1	513.6	544.2	497.1	571.4	538.9	506.9
103	981.4	104.8	104.0	103.8	100.6	106.3	59.1	66.3	76.6	75.9	580.8	514.5	771.0	693.3	571.2	516.3	546.9	499.9	573.4	541.3	509.3
104	982.4	105.4	104.5	104.2	100.9	106.9	57.1	64.9	75.4	74.6	583.4	517.3	773.3	694.9	573.5	519.2	548.8	502.0	575.3	543.3	511.0
105	983.5	105.9	105.1	104.6	101.3	107.6	58.9	65.1	75.7	76.4	585.8	520.5	776.9	698.5	576.0	522.2	551.2	506.3	577.4	547.2	512.6
106	984.6	106.4	105.5	104.9	101.6	108.3	57.1	64.3	75.2	75.8	588.1	522.9	779.7	698.5	578.3	524.9	553.4	509.3	579.4	550.1	514.9
107	986.2	106.9	106.1	105.3	102.1	108.9	56.8	64.7	75.3												

Table 31. Temperatures Measured in Assembly S-41, Steel Stud, 1x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
116	996.4	113.5	112.1	110.8	107.7	116.0	63.0	70.0	81.0	81.5	612.6	550.6	798.6	716.8	604.5	555.9	577.1	531.6	600.9	571.6	539.6
117	998.1	114.3	112.8	111.5	108.4	116.9	62.0	70.1	80.5	81.8	615.6	553.3	802.7	723.8	607.2	558.7	579.5	533.1	602.9	573.4	542.1
118	999.6	115.1	113.6	112.1	109.1	117.8	62.6	70.9	81.8	82.9	617.5	555.7	802.5	724.4	609.8	561.2	581.6	535.4	605.0	575.4	544.6
119	1000.6	116.1	114.4	112.8	109.7	118.8	62.6	71.2	81.7	83.1	619.9	557.9	803.6	725.7	612.1	563.4	583.6	537.8	607.0	577.7	547.0
120	1001.4	117.1	115.2	113.4	110.4	119.9	61.8	71.1	81.7	82.8	622.1	560.3	805.1	726.5	614.1	565.9	585.9	540.4	609.0	580.0	549.4
121	1002.5	118.3	116.2	114.0	111.1	121.1	63.9	72.2	82.8	84.5	623.8	562.8	805.0	725.3	616.2	568.6	587.9	542.9	611.1	582.3	551.8
122	1003.6	119.8	117.1	114.7	111.9	122.3	64.6	71.6	82.7	84.2	626.7	564.8	809.6	730.3	619.2	570.6	590.2	544.7	613.1	584.2	554.3
123	1004.3	121.5	118.3	115.5	112.7	123.7	64.5	73.1	84.1	85.0	629.1	567.2	810.0	731.2	621.8	572.9	592.5	546.8	615.3	586.1	557.0
124	1005.7	123.4	119.5	116.2	113.6	125.4	63.2	73.6	83.8	85.4	630.3	569.6	813.2	737.0	624.1	575.2	594.9	549.0	617.3	588.1	559.5
125	1007.0	125.8	120.7	117.2	114.5	127.0	65.4	74.1	86.5	86.5	633.0	571.6	814.8	736.1	626.2	577.3	596.8	551.3	619.2	590.3	561.9
126	1007.5	128.6	121.9	118.1	115.4	128.0	64.3	73.8	86.8	87.2	635.5	574.0	816.2	740.0	629.1	579.6	599.4	553.6	621.4	592.4	564.7
127	1008.6	131.3	123.4	119.1	116.4	128.6	65.0	75.5	87.5	89.7	637.8	576.4	817.4	740.9	632.0	582.0	601.9	556.2	623.6	594.6	567.5
128	1009.6	134.0	125.5	120.1	117.5	129.3	65.1	75.3	87.4	89.7	640.4	578.9	821.5	746.6	634.7	584.3	604.6	558.6	625.9	596.9	570.3
129	1010.6	138.7	128.3	121.1	118.8	130.4	70.4	79.0	90.0	93.1	643.2	581.6	823.2	744.6	637.6	586.9	607.4	581.0	628.3	599.1	573.3
130	1012.2	145.8	131.6	122.3	120.6	132.3	71.5	78.6	93.4	95.1	645.5	584.0	825.1	747.1	640.2	589.3	609.8	563.3	630.5	601.2	576.0
131	1013.1	151.4	134.1	123.7	122.9	135.7	74.1	80.8	94.9	96.5	647.8	586.3	828.4	748.6	642.4	591.7	612.3	565.6	632.7	603.4	578.7
132	1013.7	158.0	137.6	125.2	125.5	141.7	74.2	82.4	94.3	96.1	651.7	589.0	832.4	760.3	647.0	594.3	616.2	568.6	635.3	605.9	582.0
133	1014.8	172.0	143.6	127.4	128.1	148.7	74.3	81.5	94.9	98.2	654.5	592.1	835.0	758.9	649.7	597.3	618.7	571.3	638.0	608.3	585.1
134	1015.7	185.0	148.6	130.1	130.1	153.4	72.8	80.1	92.3	96.7	656.8	594.3	838.0	759.8	651.7	599.7	620.5	573.7	640.1	610.5	587.6
135	1016.8	196.9	152.8	133.0	132.0	157.3	70.8	80.0	92.8	97.6	658.9	596.5	840.9	760.7	654.2	602.0	622.8	576.1	642.3	612.6	590.3
136	1017.6	208.5	163.7	135.0	135.0	167.0	73.6	81.0	94.9	98.7	661.5	598.6	840.9	762.9	655.7	603.4	624.6	578.3	644.3	614.7	592.7

Table 31. Temperatures Measured in Assembly S-41, Steel Stud, 1x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
0	37.3	24.2	25.0	24.6	24.6	24.1	***	***	24.2	23.8	***	***	24.3	23.9	***	***	24.3	23.8
1	304.5	24.2	25.9	25.2	24.7	24.3	***	***	24.1	23.8	***	***	24.3	23.9	***	***	24.3	23.9
2	417.6	24.7	43.7	35.5	28.0	25.7	***	***	24.1	23.8	***	***	24.3	23.9	***	***	24.3	23.8
3	480.3	27.6	69.8	58.0	43.5	31.4	***	***	24.1	23.8	***	***	24.3	23.9	***	***	24.3	23.8
4	534.5	37.4	80.5	70.4	62.3	44.3	***	***	24.3	23.9	***	***	24.7	24.0	***	***	24.3	23.9
5	558.7	46.7	85.2	76.2	69.4	54.3	***	***	25.6	24.3	***	***	26.4	25.1	***	***	25.9	24.4
6	597.5	52.6	86.9	79.4	73.5	59.9	***	***	28.2	25.3	***	***	29.8	26.8	***	***	28.2	25.4
7	613.2	56.2	88.2	80.9	75.9	63.1	***	***	31.5	27.1	***	***	34.1	29.4	***	***	31.2	27.0
8	640.2	59.1	91.2	83.4	76.9	65.9	***	***	35.1	29.1	***	***	38.4	32.4	***	***	34.4	28.8
9	661.5	61.8	98.4	87.6	77.0	68.4	***	***	38.4	31.3	***	***	42.4	35.4	***	***	37.6	30.8
10	676.9	64.4	104.9	95.1	77.8	71.0	***	***	41.5	33.6	***	***	45.9	38.5	***	***	40.5	32.8
11	688.2	66.7	109.9	101.0	79.1	73.3	***	***	44.9	35.8	***	***	48.8	41.5	***	***	43.2	34.9
12	700.0	68.8	113.4	105.3	81.2	75.3	***	***	46.8	38.1	***	***	51.3	44.5	***	***	45.5	37.0
13	711.3	71.1	116.1	108.2	85.0	77.2	***	***	49.2	40.4	***	***	53.5	47.4	***	***	47.8	39.2
14	723.6	73.1	118.3	110.9	87.2	78.9	***	***	51.5	42.7	***	***	55.6	50.2	***	***	49.8	41.4
15	736.2	74.9	120.5	113.1	88.7	80.7	***	***	53.6	45.0	***	***	57.8	52.9	***	***	51.8	43.6
16	745.4	76.6	122.6	115.7	90.2	82.3	***	***	55.5	47.4	***	***	59.5	55.3	***	***	53.6	45.8
17	754.1	79.0	127.4	118.5	91.6	84.2	***	***	57.3	49.7	***	***	61.3	57.5	***	***	55.2	47.9
18	762.7	79.4	136.1	124.2	94.0	86.2	***	***	58.9	51.8	***	***	62.8	59.6	***	***	56.8	49.9
19	770.9	80.9	148.3	131.3	97.0	88.5	***	***	60.5	53.9	***	***	64.3	61.5	***	***	58.3	51.9
20	779.2	82.2	183.8	141.6	105.2	91.6	***	***	61.9	55.9	***	***	65.7	63.3	***	***	59.8	53.7
21	786.2	84.5	219.3	177.2	118.7	98.6	***	***	63.2	57.8	***	***	67.2	65.0	***	***	61.5	55.4
22	792.5	90.2	250.9	209.5	138.1	107.9	***	***	64.6	59.4	***	***	69.0	67.0	***	***	63.6	57.2
23	797.8	97.4	280.0	237.5	169.7	120.0	***	***	66.3	61.2	***	***	71.1	69.2	***	***	66.3	59.3
24	803.6	106.3	303.2	263.2	190.3	137.5	***	***	68.5	63.3	***	***	73.3	71.2	***	***	69.5	61.7
25	810.0	117.5	316.1	283.0	204.1	154.7	***	***	70.8	65.7	***	***	75.8	73.0	***	***	72.5	64.3
26	815.3	127.7	305.5	293.4	222.3	171.5	***	***	73.2	68.4	***	***	78.7	75.1	***	***	75.0	67.1
27	816.6	137.3	307.4	301.3	244.3	182.9	***	***	76.6	70.8	***	***	81.0	78.2	***	***	77.3	69.6
28	824.0	146.0	315.2	309.1	257.6	186.9	***	***	80.4	73.3	***	***	82.3	81.3	***	***	79.9	72.0
29	828.1	154.0	325.3	316.9	269.9	190.7	***	***	83.5	76.6	***	***	83.1	83.5	***	***	82.5	74.5
30	833.7	161.1	331.6	324.3	277.4	197.6	***	***	85.6	80.0	***	***	84.2	84.6	***	***	84.8	77.0
31	837.3	167.1	338.3	330.4	287.4	208.5	***	***	87.2	82.9	***	***	85.2	85.4	***	***	86.8	79.6
32	841.6	172.5	343.7	337.7	297.6	220.4	***	***	88.7	85.1	***	***	86.3	86.7	***	***	88.2	82.1
33	845.9	177.7	350.1	344.0	303.0	227.1	***	***	90.1	86.7	***	***	87.7	88.0	***	***	89.4	84.2
34	849.0	182.7	354.5	349.3	311.1	233.3	***	***	91.3	88.2	***	***	89.1	89.1	***	***	90.5	86.0
35	853.0	188.1	362.5	354.8	319.2	239.0	***	***	92.5	89.6	***	***	90.3	90.3	***	***	91.5	87.4
36	855.9	193.5	367.3	359.5	326.1	246.0	***	***	93.6	90.9	***	***	91.1	91.6	***	***	92.5	88.7
37	859.6	198.6	374.7	364.0	334.5	252.7	***	***	94.7	92.1	***	***	91.4	92.6	***	***	93.7	89.8
38	863.7	203.6	380.1	369.9	342.1	260.0	***	***	95.7	93.3	***	***	92.0	93.6	***	***	94.9	90.7
39	866.1	208.6	387.1	375.5	351.2	267.3	***	***	96.7	94.4	***	***	93.8	94.4	***	***	95.8	91.6
40	869.1	213.3	392.9	381.7	357.8	274.3	***	***	97.5	95.5	***	***	98.3	95.1	***	***	96.5	92.4
41	872.3	217.9	400.4	387.5	367.0	282.0	***	***	98.4	96.4	***	***	99.7	95.7	***	***	97.0	93.2
42	875.3	222.9	406.5	392.7	376.0	289.5	***	***	99.2	97.2	***	***	96.3	99.3	***	***	97.5	93.9
43	878.2	227.4	413.3	397.8	385.7	296.3	***	***	100.1	98.0	***	***	96.8	99.8	***	***	98.1	94.5
44	881.2	232.0	418.6	403.0	393.2	302.8	***	***	100.9	98.8	***	***	97.3	99.7	***	***	98.7	95.1
45	884.2	236.7	424.3	408.6	400.0	309.4	***	***	101.7	99.5	***	***	97.7	99.7	***	***	99.4	95.7
46	887.3	241.3	429.6	413.1	405.5	315.8	***	***	102.5	100.1	***	***	98.2	99.8	***	***	100.1	96.2
47	889.1	246.0	435.8	418.2	414.1	323.4	***	***	103.2	100.7	***	***	98.5	99.5	***	***	100.9	96.6
48	891.4	250.7	441.7	423.8	423.0	332.8	***	***	104.0	101.3	***	***	98.9	99.9	***	***	101.7	97.0
49	894.3	255.4	445.1	429.1	427.1	340.1	***	***	104.7	101.8	***	***	99.3	99.3	***	***	102.7	97.5
50	896.4	260.2	449.4	434.1	434.0	347.0	***	***	105.5	102.4	***	***	99.8	99.8	***	***	103.8	98.0
51	898.6	264.9	453.7	438.5	439.4	353.2	***	***	106.2	102.9	***	***	100.4	100.4	***	***	105.0	98.5
52	901.2	269.7	458.4	442.8	444.5	358.9	***	***	107.0	103.6	***	***	101.0	101.0	***	***	106.4	99.1
53	902.7	274.3	462.6	447.3	449.6	364.6	***	***	107.9	104.2	***	***	101.6	101.6	***	***	107.8	99.7
54	904.9	279.0	467.0	451.9	453.6	370.5	***	***	108.8	105.0	***	***	102.4	102.4	***	***	109.5	100.5
55	907.4	283.7	471.7	457.1	458.9	377.1	***	***	109.7	105.7	***	***	103.0	103.0	***	***	111.3	101.2
56	909.6	288.3	475.4	461.5	465.7	382.7	***	***	110.6	106.5	***	***	103.8	103.8	***	***	113.2	102.0
57	912.6	293.0	479.0	465.7	470.2	388.5	***	***	111.5	107.4	***	***	104.5	104.5	***	***	115.1	102.9

Table 31. Temperatures Measured in Assembly S-41, Steel Stud, 1x2 Gypsum Board Layers, No Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																	
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	
58	914.0	297.5	482.2	468.9	474.2	393.4	***	***	112.4	108.2	***	***	***	105.4	***	***	117.2	103.9	
59	916.5	302.0	485.9	472.9	479.2	398.4	***	***	113.3	109.1	***	***	***	106.2	***	***	119.3	104.8	
60	918.0	306.5	487.9	476.4	482.9	403.3	***	***	114.2	110.0	***	***	***	107.1	***	***	121.6	105.9	
61	920.0	310.8	491.7	479.7	486.6	408.0	***	***	115.1	110.8	***	***	***	108.0	***	***	124.0	107.0	
62	921.9	315.0	494.5	482.6	490.0	412.2	***	***	116.0	111.7	***	***	***	109.0	***	***	126.5	108.2	
63	924.6	319.1	498.0	486.1	494.5	416.7	***	***	117.1	112.6	***	***	***	110.0	***	***	129.1	109.4	
64	925.0	323.3	501.1	489.2	497.4	421.0	***	***	118.1	113.4	***	***	***	111.1	***	***	131.9	110.6	
65	927.2	327.2	504.1	492.7	501.3	425.6	***	***	119.3	114.3	***	***	***	112.4	***	***	134.8	111.9	
66	928.9	331.0	507.5	495.6	504.7	429.3	***	***	120.6	115.2	***	***	***	113.9	***	***	137.9	113.5	
67	931.1	334.7	511.2	499.1	509.6	433.6	***	***	122.1	116.1	***	***	***	115.4	***	***	140.8	115.1	
68	933.2	338.9	514.9	501.2	513.7	437.1	***	***	123.8	117.0	***	***	***	117.1	***	***	143.7	116.9	
69	933.8	343.2	518.9	507.4	516.6	441.5	***	***	125.8	117.9	***	***	***	119.3	***	***	146.6	118.7	
70	936.2	347.6	522.1	509.8	521.4	444.8	***	***	128.5	118.8	***	***	***	122.5	***	***	149.9	120.7	
71	938.5	351.6	525.5	511.4	524.0	447.2	***	***	132.0	120.0	***	***	***	126.1	***	***	153.6	122.9	
72	938.9	355.5	530.1	515.3	526.9	450.4	***	***	135.6	121.2	***	***	***	128.9	***	***	157.1	125.2	
73	940.7	359.3	533.3	518.7	529.3	453.4	***	***	139.7	122.6	***	***	***	132.1	***	***	160.4	127.5	
74	942.7	363.2	536.2	522.2	532.9	456.6	***	***	142.5	124.0	***	***	***	137.9	***	***	164.0	129.9	
75	943.7	367.2	537.5	522.8	535.2	459.7	***	***	148.5	125.5	***	***	***	144.0	***	***	169.0	132.3	
76	945.6	371.2	539.2	523.4	538.2	462.9	***	***	154.2	127.5	***	***	***	150.7	***	***	175.1	134.6	
77	946.8	375.5	541.8	525.6	540.6	466.2	***	***	160.7	130.1	***	***	***	161.2	***	***	179.9	137.0	
78	948.1	379.9	544.0	527.6	543.3	469.5	***	***	168.8	133.4	***	***	***	171.8	***	***	184.5	139.4	
79	949.7	384.2	546.5	529.8	545.6	472.7	***	***	174.5	137.1	***	***	***	179.8	***	***	189.1	142.2	
80	951.1	388.4	549.0	531.5	548.5	476.9	***	***	179.6	140.8	***	***	***	185.0	***	***	193.8	145.1	
81	952.3	392.5	551.6	533.8	551.0	481.1	***	***	185.2	144.9	***	***	***	188.7	***	***	198.7	148.3	
82	953.8	396.0	554.1	536.2	554.2	485.3	***	***	191.3	150.3	***	***	***	192.0	***	***	203.7	151.6	
83	955.6	400.1	556.9	538.6	557.1	489.3	***	***	197.7	156.5	***	***	***	195.3	***	***	208.6	154.8	
84	957.7	403.9	559.6	541.4	560.1	493.8	***	***	204.1	162.8	***	***	***	198.7	***	***	213.0	157.8	
85	959.0	407.9	562.4	544.2	563.0	497.4	***	***	209.8	169.2	***	***	***	202.2	***	***	217.3	160.9	
86	960.4	412.0	565.0	547.1	565.6	501.2	***	***	214.7	175.0	***	***	***	206.0	***	***	221.2	164.8	
87	961.6	416.7	567.4	549.8	568.5	504.7	***	***	219.0	180.3	***	***	***	210.3	***	***	225.2	168.9	
88	963.1	421.1	569.9	552.7	571.5	508.4	***	***	222.8	185.9	***	***	***	215.2	***	***	229.2	172.5	
89	964.9	425.4	572.7	555.4	574.0	511.6	***	***	226.5	191.7	***	***	***	220.2	***	***	233.1	176.0	
90	966.1	429.8	575.1	557.9	576.7	514.6	***	***	230.3	197.8	***	***	***	224.6	***	***	237.2	179.7	
91	967.7	434.0	577.3	560.2	578.9	517.1	***	***	234.0	203.5	***	***	***	228.3	***	***	241.2	183.7	
92	968.6	438.3	579.8	562.6	582.0	520.0	***	***	237.7	208.6	***	***	***	231.5	***	***	245.3	187.9	
93	969.2	442.1	582.8	564.9	585.1	522.8	***	***	241.3	213.4	***	***	***	234.8	***	***	249.4	192.3	
94	970.3	445.3	585.4	567.1	587.4	525.3	***	***	245.0	217.3	***	***	***	238.1	***	***	253.5	196.6	
95	971.5	448.5	588.0	569.4	590.6	527.9	***	***	248.7	220.9	***	***	***	235.4	***	***	260.7	199.6	
96	972.7	451.7	590.3	571.8	592.3	531.0	***	***	252.3	224.4	***	***	***	245.0	***	***	262.0	204.7	
97	974.4	454.6	592.7	574.0	595.0	533.7	***	***	255.9	227.8	***	***	***	249.5	***	***	266.3	208.5	
98	975.3	457.8	596.3	576.6	598.2	536.7	***	***	259.5	231.3	***	***	***	251.9	***	***	270.7	212.0	
99	976.8	460.8	598.1	578.9	600.5	539.0	***	***	262.9	234.8	***	***	***	255.4	***	***	275.0	215.6	
100	977.7	463.3	599.9	581.2	601.3	540.8	***	***	266.3	238.3	***	***	***	259.0	***	***	279.4	219.3	
101	978.6	466.3	602.9	583.0	604.7	544.1	***	***	269.4	241.7	***	***	***	262.6	***	***	283.7	222.9	
102	980.1	469.1	605.0	585.2	606.4	546.6	***	***	272.4	245.2	***	***	***	266.3	***	***	288.1	226.6	
103	981.4	472.0	607.5	587.4	609.5	549.2	***	***	275.2	248.5	***	***	***	269.8	***	***	292.3	230.3	
104	982.4	474.4	609.6	589.3	611.2	550.8	***	***	277.9	251.7	***	***	***	273.6	***	***	296.6	234.0	
105	983.5	478.6	612.1	591.4	614.6	553.3	***	***	280.6	254.8	***	***	***	277.3	***	***	300.8	237.7	
106	984.6	482.0	613.9	593.8	616.5	555.8	***	***	283.2	257.7	***	***	***	281.1	***	***	305.1	241.5	
107	986.2	484.7	616.2	596.1	618.8	558.5	***	***	285.8	260.4	***	***	***	285.0	***	***	309.5	245.4	
108	987.4	486.6	618.2	598.2	621.4	560.4	***	***	288.4	263.1	***	***	***	289.1	***	***	313.9	249.2	
109	988.5	488.6	620.2	600.7	623.8	563.2	***	***	291.1	265.8	***	***	***	293.4	***	***	318.6	253.1	
110	989.6	491.0	623.5	603.1	626.0	566.0	***	***	293.9	268.3	***	***	***	297.8	***	***	323.4	256.9	
111	991.1	493.4	624.9	605.6	628.2	568.7	***	***	296.8	270.9	***	***	***	302.4	***	***	326.3	260.7	
112	992.2	496.5	627.5	607.8	631.1	571.3	***	***	299.7	273.4	***	***	***	307.1	***	***	333.3	264.6	
113	993.1	498.8	629.3	609.8	633.5	573.5	***	***	302.8	276.0	***	***	***	311.7	***	***	338.4	268.4	
114	994.4	501.0	632.5	612.1	636.0	575.9	***	***	305.9	278.6	***	***	***	317.2	***	***	343.7	272.2	
115	995.4	503.6	634.4	614.6	637.8	578.8	***	***	309.0	281.3	***	***	***	323.0	***	***	349.2	276.0	

Table 32. Average Temperatures Measured in Assembly S-41, Steel Stud, 1x2 Gypsum Board Layers, No Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,18,19)	Mid SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
0	37.3	24.8	24.7	24.4	24.3	24.3	24.0	24.0
1	304.5	25.5	25.4	24.5	24.5	24.3	24.1	24.0
2	417.6	39.6	39.3	26.1	26.8	24.9	24.0	24.0
3	480.3	63.9	73.1	38.9	37.5	31.6	24.1	24.0
4	534.5	75.5	91.8	58.2	53.3	47.4	24.3	24.0
5	558.7	80.7	93.5	68.0	61.9	57.5	25.3	24.0
6	597.5	83.1	94.1	72.5	66.7	63.0	27.3	24.0
7	613.2	84.6	94.0	74.7	69.5	66.1	30.0	24.1
8	640.2	87.3	94.0	76.5	71.4	68.3	33.0	24.3
9	661.5	93.0	94.4	78.2	72.7	70.0	36.0	24.8
10	678.9	100.0	94.8	80.7	74.4	71.8	38.8	25.4
11	688.2	105.5	95.4	82.9	76.2	73.5	41.4	26.3
12	700.0	109.4	96.2	84.8	78.2	75.3	43.9	27.3
13	711.3	112.1	98.5	86.9	81.1	76.9	46.3	28.6
14	723.8	114.6	103.7	89.4	83.1	78.4	48.5	30.1
15	736.2	116.8	114.4	92.2	84.7	79.7	50.7	31.7
16	745.4	119.1	128.4	95.4	86.2	81.0	52.8	33.4
17	753.5	123.0	138.8	98.8	87.9	82.0	54.8	35.2
18	762.7	130.2	149.2	102.5	90.1	83.0	56.7	37.1
19	770.8	139.8	161.8	107.1	92.7	84.4	58.4	39.1
20	779.2	162.7	178.2	113.9	98.4	85.9	60.1	41.1
21	786.2	198.2	204.2	124.4	108.6	88.2	61.7	43.0
22	792.5	230.2	234.4	138.9	123.0	95.8	63.5	44.9
23	797.3	258.7	262.4	156.1	141.9	106.2	65.6	46.8
24	803.6	283.2	289.1	174.7	163.9	118.6	67.9	48.7
25	810.0	299.6	312.8	192.8	179.4	132.4	70.4	50.7
26	815.3	299.4	332.2	208.7	196.9	145.1	72.9	52.6
27	819.6	304.4	347.3	221.1	213.6	155.7	75.6	54.8
28	824.0	312.1	361.1	231.7	222.3	164.3	78.2	57.1
29	828.3	321.1	372.1	240.7	230.3	171.8	80.6	59.6
30	833.7	328.0	383.2	249.2	237.5	178.6	82.7	61.9
31	837.3	334.4	392.6	256.9	247.9	185.2	84.5	64.1
32	841.6	340.7	400.4	264.4	269.0	191.5	86.2	65.8
33	845.3	347.0	407.5	271.4	265.0	197.8	87.7	67.3
34	849.0	351.9	413.9	277.7	272.2	203.9	89.0	68.6
35	853.0	358.7	418.8	283.2	279.1	209.8	90.3	69.5
36	855.3	363.4	423.1	288.9	286.0	215.7	91.4	70.3
37	859.6	369.4	436.2	294.8	293.6	221.7	92.4	71.0
38	863.7	375.0	445.1	301.5	301.1	228.2	93.4	71.5
39	866.1	381.3	452.8	308.6	309.2	234.9	94.5	71.9
40	869.1	387.3	459.4	315.1	316.1	241.7	94.2	72.1
41	872.2	394.0	465.3	321.1	324.5	248.2	96.1	72.3
42	875.3	399.6	469.3	327.0	332.7	254.9	96.8	72.5
43	878.2	405.6	475.7	332.5	341.0	261.2	97.5	72.6
44	881.7	410.8	480.1	338.0	348.0	267.4	98.2	72.7
45	884.7	416.4	483.8	343.2	354.7	273.6	98.8	72.7
46	887.5	421.3	487.1	348.2	360.7	279.8	99.4	72.7
47	889.1	427.0	492.8	353.3	368.8	286.1	100.0	72.7
48	891.4	432.8	496.0	358.4	377.9	292.2	100.6	72.7
49	894.3	437.1	499.5	363.1	383.6	298.3	101.2	72.8
50	896.4	441.8	502.1	367.6	390.5	304.1	101.9	72.5
51	899.6	446.1	505.6	372.4	396.3	309.8	102.6	72.6
52	901.2	450.6	511.2	376.9	401.7	315.2	103.4	72.5
53	904.7	454.9	512.9	381.1	407.1	320.3	104.3	72.5
54	904.9	459.4	518.5	385.1	412.0	325.3	105.2	72.5
55	907.4	464.4	517.4	388.8	418.0	329.8	106.2	72.5
56	909.6	468.4	521.6	392.4	424.2	334.8	107.2	72.5
57	912.4	472.4	524.9	396.3	429.3	339.8	108.3	72.5

Table 32. Average Temperatures Measured in Assembly S-41, Steel Stud, 1x2 Gypsum Board Layers, No Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,15,16)	Mid SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/WStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(26,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
58	914.0	475.5	527.2	389.7	433.8	344.6	109.4	72.5
59	916.5	479.4	529.7	403.3	438.8	349.2	110.6	72.5
60	918.0	482.1	532.6	407.0	443.1	354.0	111.8	72.6
61	920.0	485.7	534.8	410.3	447.3	358.5	113.0	72.8
62	921.9	488.6	536.2	413.8	451.1	363.1	114.3	72.9
63	924.6	492.1	537.9	417.2	455.6	367.6	115.6	73.1
64	926.0	495.1	541.0	420.7	459.2	372.5	117.0	73.4
65	927.2	498.4	544.6	423.8	463.4	377.2	118.5	73.8
66	928.9	501.6	549.3	427.3	467.0	382.1	120.2	74.4
67	931.	505.1	550.0	430.3	471.6	386.8	121.9	75.1
68	933.2	508.0	554.1	433.5	475.4	391.4	123.7	75.8
69	933.6	513.1	557.8	436.7	479.1	396.0	125.7	76.7
70	935.2	515.9	560.0	439.9	483.1	400.8	128.1	77.6
71	938.5	518.4	563.6	442.6	485.6	405.1	130.9	78.7
72	938.9	522.7	567.0	445.7	488.6	409.6	133.6	80.1
73	940.7	526.0	569.5	448.5	491.4	413.9	136.2	82.0
74	942.7	529.2	570.7	451.4	494.6	418.1	139.7	83.9
75	943.7	530.1	573.8	454.9	497.6	422.1	143.9	85.7
76	945.6	531.3	575.0	457.8	500.6	426.2	148.4	87.4
77	946.8	533.6	578.7	460.9	503.4	430.7	153.8	89.0
78	948.1	535.8	583.4	464.2	506.4	435.2	158.6	90.4
79	949.7	538.2	585.1	467.8	509.2	439.6	164.5	91.5
80	951.1	540.3	590.0	470.9	512.7	443.6	168.9	92.6
81	952.3	542.7	590.8	474.2	516.0	447.8	173.2	93.5
82	953.3	545.1	594.6	477.1	519.7	451.4	177.8	94.3
83	955.5	547.7	597.0	480.2	523.2	454.8	182.6	95.0
84	957.7	550.5	598.9	483.1	527.0	458.1	187.3	95.6
85	958.0	553.3	600.9	486.3	530.2	462.0	191.9	96.2
86	960.4	556.1	604.1	489.4	533.4	465.8	196.4	96.8
87	961.3	558.6	603.9	492.2	536.6	469.3	200.8	97.4
88	963.1	561.3	608.4	494.9	540.0	472.3	205.1	98.0
89	964.0	564.1	610.6	498.0	542.8	476.0	209.5	98.4
90	965.	566.5	613.4	500.9	545.7	479.5	213.9	98.8
91	967.7	568.7	614.9	503.5	548.0	482.8	218.1	99.1
92	968.6	571.2	619.2	506.4	551.0	486.3	222.2	99.5
93	969.2	573.9	621.4	509.4	553.9	489.6	226.2	99.8
94	970.3	576.3	623.5	512.1	556.3	492.7	230.1	100.2
95	971.5	578.7	626.1	514.8	559.3	495.6	234.8	100.5
96	972.7	581.1	627.1	517.4	561.6	498.5	237.7	100.8
97	974.3	583.3	630.7	520.0	584.3	501.2	241.4	101.2
98	975.3	586.5	633.9	522.9	587.4	504.3	245.1	101.6
99	975.6	588.5	635.1	525.5	589.7	507.1	249.7	102.0
100	977.7	590.6	636.5	527.6	571.1	509.5	252.4	102.4
101	978.6	593.0	640.3	530.3	574.4	511.9	256.1	102.8
102	980.1	595.1	642.2	532.8	576.6	514.4	259.7	103.3
103	981.4	597.4	644.7	535.5	579.3	517.2	263.2	103.9
104	982.4	599.4	646.7	537.9	581.0	519.5	266.8	104.4
105	983.5	601.7	650.0	541.0	583.9	522.3	270.2	104.9
106	984.6	603.9	651.9	543.4	586.1	525.0	273.7	105.3
107	985.7	606.1	653.8	545.8	588.6	527.6	277.2	105.8
108	987.1	608.2	655.8	548.1	590.9	530.6	280.8	106.5
109	988.6	610.5	658.3	550.8	593.5	533.3	284.4	107.1
110	989.6	613.3	660.4	553.1	596.0	535.9	286.1	107.8
111	991.	615.2	663.1	555.6	598.5	538.4	291.8	108.4
112	992.7	617.7	664.1	558.2	601.2	541.2	295.6	109.2
113	992.1	619.6	666.7	560.5	603.5	543.6	299.4	109.8
114	994.4	622.3	667.7	563.0	606.0	546.2	303.5	110.5
115	995.	624.5	671.5	565.7	608.3	549.0	307.7	111.3

Table 32. Average Temperatures Measured in Assembly S-41, Steel Stud, 1x2 Gypsum Board Layers, No Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/Wstd. (Exp.) Av(12,13,14,19)	Middlestd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/Wstd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(26,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
116	996.4	626.7	672.0	568.0	611.1	551.5	298.2	112.0
117	998.1	628.3	675.7	570.4	613.1	554.0	315.7	112.8
118	999.6	630.9	676.8	572.6	615.2	556.5	319.8	113.5
119	1000.6	632.9	678.5	574.8	617.2	558.8	323.5	114.4
120	1001.4	634.4	680.1	577.2	618.8	561.2	327.4	115.2
121	1002.5	636.6	680.9	578.4	621.1	563.6	331.1	116.1
122	1003.6	639.5	684.3	581.6	623.5	566.0	334.8	117.2
123	1004.3	641.4	685.6	583.9	625.8	568.4	338.4	118.3
124	1005.7	643.8	688.9	585.9	627.7	570.8	342.0	119.6
125	1007.0	645.9	690.1	588.2	629.5	573.1	345.5	121.1
126	1007.6	648.3	692.5	590.6	631.7	575.7	348.9	122.4
127	1008.6	650.5	694.1	593.1	634.2	578.3	352.4	123.8
128	1009.6	653.7	697.7	595.6	636.5	581.0	355.9	125.3
129	1010.6	655.6	698.8	598.3	638.6	583.7	358.4	127.5
130	1012.2	658.0	701.0	600.6	640.8	586.3	362.9	130.5
131	1012.1	660.4	703.3	603.0	643.2	588.7	366.4	133.5
132	1013.7	665.9	708.5	606.4	649.2	592.1	370.0	137.6
133	1014.8	667.2	710.0	609.2	650.2	595.0	373.6	144.0
134	1015.7	668.7	712.1	611.3	651.8	597.5	377.2	149.4
135	1016.8	670.5	714.1	613.6	653.9	600.0	380.8	154.4
136	1017.6	672.3	715.7	615.8	656.1	601.9	384.4	161.8

Table 33. Temperatures Measured in Assembly S-42, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
0	24.2	25.0	25.4	24.9	24.7	25.2	24.7	25.1	24.0	24.9	24.7	24.3	24.5	24.2	25.0	24.5	24.8	24.4	24.8	24.2	25.1	
1	302.5	25.0	25.4	24.9	24.7	25.2	24.7	25.1	24.0	24.9	24.7	24.3	24.5	24.3	25.0	24.5	24.9	24.4	24.8	24.6	25.1	
2	414.0	24.8	25.3	24.8	24.6	25.0	24.5	25.0	23.8	24.8	24.9	24.8	23.8	30.8	32.7	25.0	24.5	25.4	24.9	25.3	37.6	25.1
3	480.7	24.9	25.3	24.8	24.6	25.1	24.6	25.0	23.8	24.8	27.5	28.5	72.3	66.3	25.1	24.7	31.3	29.8	31.4	73.2	25.6	
4	531.3	24.9	25.2	24.8	24.6	25.1	24.5	24.9	23.8	24.7	63.2	47.9	98.6	96.4	34.7	25.6	48.1	42.8	53.8	88.2	28.5	
5	561.1	24.9	25.2	24.8	24.6	25.1	24.6	24.9	23.8	24.7	93.8	84.3	98.3	97.1	69.3	34.6	68.3	55.8	74.1	91.4	36.6	
6	597.6	24.8	25.2	24.7	24.6	25.1	24.5	24.9	23.8	24.7	93.6	85.9	98.2	96.7	74.3	47.0	80.3	66.5	83.9	92.7	47.2	
7	620.8	24.8	25.2	24.7	24.6	25.0	24.5	24.9	23.8	24.7	92.8	85.4	97.7	96.2	75.1	53.4	85.2	73.4	87.6	93.3	55.5	
8	641.7	24.8	25.2	24.7	24.5	25.0	24.4	24.9	23.8	24.8	91.9	85.3	97.3	96.3	74.8	57.6	87.2	77.5	89.0	94.1	61.5	
9	658.9	24.9	25.3	24.7	24.6	25.1	24.5	25.0	23.7	25.0	91.9	85.7	97.3	96.5	76.1	60.9	87.8	79.6	89.2	94.4	65.7	
10	674.2	25.1	25.4	24.9	24.7	25.3	24.7	25.3	23.9	25.6	91.8	86.0	97.1	96.9	76.6	63.6	88.0	80.8	89.4	94.4	68.6	
11	686.9	25.4	25.8	25.1	24.8	25.4	24.8	25.6	24.0	26.2	91.6	86.4	96.6	98.4	76.3	65.9	88.5	81.5	89.8	94.7	70.8	
12	699.6	25.8	26.3	25.4	25.2	26.0	25.1	26.1	24.0	27.2	91.5	87.3	96.0	101.7	77.3	68.2	89.2	82.2	90.5	97.0	72.5	
13	711.4	26.5	27.0	25.9	25.6	26.6	25.8	26.7	24.2	28.2	91.6	88.1	96.3	109.1	77.9	70.6	90.0	83.1	91.2	103.5	73.9	
14	723.7	27.3	27.9	26.5	26.1	27.3	26.2	27.5	24.5	29.4	91.7	88.8	99.2	118.8	78.7	72.9	90.7	84.1	91.9	110.9	75.5	
15	736.4	28.2	28.8	27.3	26.8	28.2	26.9	28.3	24.8	30.7	91.8	89.6	107.5	129.2	79.1	74.9	91.3	85.2	92.5	118.1	76.6	
16	745.4	29.3	30.0	28.1	27.6	29.2	27.6	29.2	25.0	31.9	92.0	90.3	123.0	141.0	79.9	76.6	91.7	86.1	92.6	122.5	77.7	
17	753.8	30.6	31.3	29.1	28.5	30.4	28.2	30.2	25.5	33.4	92.3	90.7	135.8	156.2	80.0	78.0	91.5	86.3	92.4	126.6	78.3	
18	762.4	31.9	32.7	30.1	29.5	31.7	29.0	31.1	25.8	34.6	93.4	91.5	150.6	178.0	80.1	78.5	91.6	86.7	92.3	132.7	79.1	
19	770.9	33.4	34.2	31.3	30.7	33.2	29.5	32.2	26.2	35.9	94.7	92.5	171.5	206.7	81.6	79.5	90.4	86.0	94.5	141.5	78.9	
20	779.0	34.9	35.7	32.5	32.0	34.7	31.0	33.3	26.7	37.2	99.0	99.1	201.4	236.2	78.5	78.1	89.6	87.4	89.1	170.1	77.4	
21	786.0	36.5	37.3	33.7	33.4	36.3	31.4	34.3	27.4	38.4	108.6	115.9	231.9	262.6	76.6	75.2	92.7	95.5	91.4	231.2	76.7	
22	792.4	38.0	38.9	34.9	34.8	38.0	32.4	35.2	28.1	39.7	118.9	133.0	265.5	298.5	76.6	76.1	102.5	115.1	96.8	276.3	77.0	
23	798.3	39.4	40.4	36.1	36.3	39.6	33.2	36.1	28.8	40.2	131.9	151.3	300.0	335.3	77.6	77.1	117.0	138.3	117.2	320.0	77.5	
24	804.0	40.7	41.7	37.2	37.8	41.1	33.6	36.7	28.5	40.7	148.6	170.3	337.6	372.8	80.0	77.2	134.9	160.3	142.0	360.6	78.8	
25	810.3	41.8	42.8	38.3	39.1	42.4	33.4	37.2	29.0	40.9	166.8	187.4	371.0	399.0	82.7	78.3	159.3	182.3	170.6	398.8	82.8	
26	815.6	42.7	43.7	39.2	40.3	43.6	33.6	37.6	29.7	41.3	184.7	203.8	400.8	423.3	88.6	81.2	192.3	204.5	196.8	431.2	90.5	
27	819.6	43.5	44.5	40.1	41.4	44.6	33.9	38.0	30.2	41.3	202.3	219.6	428.4	449.1	90.7	85.2	205.1	226.4	222.0	466.1	100.2	
28	823.5	44.1	45.0	40.8	42.3	45.4	34.0	38.2	29.4	40.8	219.3	236.4	457.0	474.0	95.4	91.6	227.9	248.2	247.2	493.9	110.5	
29	828.1	44.7	45.5	41.5	43.1	46.0	33.9	38.3	29.4	40.8	236.0	254.3	480.5	497.6	102.1	99.1	250.4	269.3	271.9	518.9	121.3	
30	833.2	45.2	46.0	42.0	43.8	46.5	34.7	38.8	30.2	41.2	252.3	271.0	502.2	517.3	111.1	107.2	272.0	289.4	295.2	541.5	132.5	
31	837.6	45.8	46.3	42.5	44.5	46.9	34.9	39.0	30.0	41.3	268.1	286.6	524.6	537.1	118.8	115.1	292.6	308.5	317.0	562.2	143.9	
32	841.3	46.4	46.8	43.1	45.1	47.2	34.2	39.1	30.2	40.9	283.6	301.4	548.2	558.5	126.8	122.7	312.0	326.3	337.1	581.0	155.1	
33	845.6	47.2	47.0	43.7	45.7	47.5	34.1	39.8	30.4	41.5	298.8	315.5	573.3	579.0	134.7	130.2	390.2	342.9	355.6	597.9	165.7	
34	848.9	48.1	47.5	44.4	46.3	47.7	34.6	40.2	30.2	41.7	314.0	329.5	599.5	598.6	142.6	137.5	347.3	358.1	372.8	612.9	175.6	
35	852.7	49.1	48.1	45.2	47.0	48.1	34.4	40.7	30.8	41.9	329.0	343.2	623.7	616.3	150.4	144.4	363.0	372.0	388.9	626.5	185.4	
36	856.0	50.3	48.7	46.2	47.7	48.3	35.2	41.7	31.0	42.3	343.9	366.5	646.0	632.6	157.6	151.3	377.5	384.8	403.9	688.7	195.0	
37	859.8	51.5	49.4	47.3	48.5	48.8	35.2	42.5	30.7	42.7	358.5	369.3	666.8	647.9	164.3	158.3	390.7	396.6	418.2	650.5	204.5	
38	863.8	52.7	50.4	48.7	49.4	49.3	36.1	43.6	31.2	43.3	372.6	381.4	685.6	662.1	171.2	165.1	402.9	407.6	432.5	661.4	214.0	
39	866.1	53.8	51.4	50.1	50.4	49.8	37.3	44.8	32.3	44.4	396.1	392.9	704.6	675.5	178.6	171.8	414.3	417.9	446.2	671.8	223.6	
40	869.4	54.8	52.5	51.7	51.4	50.5	37.5	45.6	32.5	44.8	398.7	403.1	721.7	687.5	186.1	178.2	425.4	428.1	458.7	681.9	233.3	
41	872.3	55.9	53.6	53.3	52.4	51.3	38.3	46.5	32.9	45.4	410.6	412.7	738.1	699.1	193.6	184.4	435.9	437.6	472.4	691.9	243.3	
42	875.4	57.0	54.8	55.0	53.4	52.1	38.6	47.2	33.4	46.2	421.8	421.4	753.1	709.5	200.9	190.0	445.9	446.6	484.3	701.1	253.8	
43	878.5	58.2	55.9	56.7	54.4	53.0	38.5	48.0	33.9	46.9	433.1	429.9	766.0	719.2	208.0	195.8	455.4	455.0	495.6	709.2	264.8	
44	881.3	59.3	57.1	58.4	55.5	53.8	39.5	48.7	34.8	47.3	443.6	437.8	779.0	729.0	214.9	201.4	464.6	462.8	506.7	717.1	276.5	
45	884.0	60.3	58.3	60.1	58.6	54.8	40.1	50.0	34.5	48.3	454.0	445.6	790.7	738.7	221.7	207.0	473.5	470.1	517.6	724.0	289.0	
46	887.4	61.3	59.6	61.6	57.7	55.7	40.8	51.0	34.6	49.0	464.1	453.3	805.9	748.7	228.3	212.8	482.3	476.8	528.4	729.2	302.1	
47	889.2	62.1	61.0	63.2	58.8	56.7	41.4	51.8	35.1	50.0	474.0	480.7	818.9	756.4	234.7	218.6	491.4	483.2	539.4	734.6	316.2	
48	891.3	63.0	62.3	64.5	59.8	57.6	41.8	53.1	35.9	50.5	483.6	467.7	831.1	763.4	240.8	224.4	501.0	489.3	550.5	740.0	331.2	
49	894.7	63.7	63.6	65.7	60.7	58.5	41.4	53.7	35.4	51.5	482.8	473.9	841.8	769.5	246.9	229.8	511.3	495.1	561.8	746.9	347.6	
50	896.6	64.3	64.8	66.6	61.6	59.4	42.7	54.6	3													

Table 33. Temperatures Measured in Assembly S-42, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	914.3	67.9	69.6	70.2	66.6	66.2	45.6	58.1	40.1	55.7	572.5	516.5	897.6	808.3	308.0	276.9	609.1	543.2	646.2	789.8	478.9
59	916.6	68.3	70.0	70.5	67.0	66.9	46.5	57.6	39.2	55.6	583.2	520.7	899.7	807.9	316.7	282.9	601.6	547.3	643.8	791.4	479.2
60	918.2	68.5	70.2	70.6	67.2	67.7	47.5	58.0	39.3	55.5	594.1	524.7	900.6	807.2	325.5	289.0	598.5	551.3	643.8	792.3	486.7
61	920.4	68.8	70.4	70.8	67.5	68.4	46.6	58.3	40.4	55.8	605.1	528.7	899.4	804.7	334.7	295.7	601.5	553.3	646.4	791.3	494.6
62	922.0	69.0	70.7	70.9	67.6	69.0	47.1	58.6	39.5	56.3	615.9	532.7	896.5	803.2	340.8	302.6	607.3	558.9	653.3	790.0	498.7
63	924.8	69.1	70.8	71.0	67.7	69.5	47.3	58.7	39.5	56.5	626.3	538.8	893.2	800.1	349.3	310.4	615.0	564.3	663.6	785.4	505.3
64	925.3	69.4	70.9	71.1	67.9	69.9	47.8	58.9	40.2	56.3	637.0	541.0	887.9	795.8	359.9	318.9	624.1	569.7	674.8	780.9	516.9
65	927.8	69.7	71.0	71.2	68.0	70.3	47.2	58.8	40.1	57.1	647.2	545.6	883.3	791.3	372.9	328.2	633.5	576.2	684.7	775.8	530.3
66	929.0	69.9	71.1	71.2	68.0	70.6	48.1	58.9	39.8	57.0	656.2	550.4	878.2	788.0	387.3	338.5	641.9	584.0	692.3	769.9	542.3
67	931.0	70.0	71.0	71.1	68.1	70.8	48.8	59.0	39.8	57.2	664.8	556.1	875.5	783.3	403.1	350.2	649.2	593.1	698.5	763.6	554.7
68	933.9	70.1	71.0	71.2	68.2	71.0	49.0	59.4	40.2	57.5	673.0	562.3	874.4	779.7	420.0	362.9	655.1	602.9	702.7	758.0	566.6
69	934.2	70.2	71.1	71.2	68.2	71.1	48.3	58.4	40.8	57.3	680.6	569.0	874.2	776.5	438.7	376.8	660.8	613.1	705.6	753.9	577.7
70	936.7	70.3	71.2	71.2	68.2	71.4	47.9	58.5	40.0	57.5	688.2	576.3	874.6	774.8	455.3	392.0	666.1	622.8	707.0	751.2	586.8
71	938.4	70.4	71.2	71.2	68.3	71.5	48.6	59.0	41.5	58.0	695.7	584.0	877.3	774.5	472.2	407.9	670.5	630.9	706.6	750.0	592.9
72	939.2	70.5	71.1	71.1	68.3	71.6	50.0	59.0	42.5	58.1	704.7	593.2	880.3	773.7	489.3	426.6	674.6	636.8	706.0	751.4	596.5
73	940.8	70.5	71.1	71.1	68.3	71.6	48.2	58.8	39.9	57.6	713.8	602.8	885.5	774.5	505.6	446.4	675.9	640.1	704.9	753.1	597.1
74	943.1	70.5	71.0	71.1	68.4	71.7	49.7	58.7	40.7	58.3	722.5	612.4	894.0	775.1	519.9	466.8	672.8	642.4	703.9	755.8	596.2
75	943.8	70.7	71.1	71.1	68.5	71.9	48.4	58.5	41.4	58.2	731.5	622.3	903.5	777.3	532.5	488.4	659.7	643.8	703.6	759.3	595.8
76	945.5	70.8	71.2	71.1	68.5	72.0	49.4	58.6	41.6	58.5	740.0	631.9	916.5	782.1	543.0	508.8	642.8	645.7	701.3	763.5	594.0
77	946.8	70.9	71.2	71.3	68.6	72.0	49.0	58.2	41.2	58.1	745.9	640.6	922.9	787.4	550.3	526.1	626.2	644.5	691.1	767.9	585.8
78	948.2	71.2	71.4	71.6	68.7	72.2	49.8	58.8	43.3	58.9	750.3	647.5	937.7	792.7	554.2	539.4	622.1	638.6	672.4	772.8	559.1
79	949.0	71.4	71.6	71.9	68.9	72.3	48.3	58.3	41.3	58.2	764.4	651.9	938.7	799.1	554.4	549.8	624.7	627.2	658.0	778.6	515.2
80	951.4	71.6	71.7	72.2	69.0	72.5	47.9	58.1	41.0	58.3	759.4	653.2	939.0	806.3	553.7	557.4	627.7	616.0	657.8	784.4	489.3
81	953.3	72.1	72.0	72.7	69.2	72.7	49.9	58.9	42.8	59.2	765.9	652.5	941.9	813.1	556.8	562.1	630.7	607.0	660.7	788.4	489.8
82	953.9	72.7	72.4	73.2	69.4	73.0	48.5	58.6	41.6	58.6	772.1	650.8	942.6	818.7	563.3	565.8	633.7	599.7	663.9	790.9	494.3
83	955.9	73.2	72.9	73.8	69.7	73.4	49.2	58.7	42.3	59.8	777.5	651.3	945.5	824.5	571.2	570.2	636.9	593.2	667.3	792.9	499.1
84	958.4	73.8	73.5	74.4	70.0	73.9	49.2	58.7	42.1	59.1	781.8	652.7	948.5	830.3	578.9	573.2	640.1	592.5	670.9	794.2	503.7
85	959.0	74.5	74.0	75.0	70.4	74.4	49.9	59.0	41.6	60.1	786.2	654.3	949.9	836.8	586.8	575.6	643.5	594.1	674.6	795.4	507.9
86	960.7	75.3	74.6	75.8	70.8	74.9	50.9	59.7	41.9	60.9	790.2	655.4	952.0	844.7	594.3	576.3	647.0	595.8	678.2	796.6	512.1
87	962.3	76.2	75.3	76.5	71.3	75.6	51.8	59.7	42.3	61.0	794.4	656.3	953.8	852.1	601.9	575.7	650.5	597.6	681.8	797.9	516.5
88	963.5	77.2	75.9	77.3	71.8	76.4	50.2	58.9	41.9	60.9	798.2	657.4	957.3	859.8	609.0	572.7	654.1	599.3	685.4	799.3	520.6
89	965.5	78.1	76.5	78.2	72.3	77.9	50.5	59.1	41.4	60.3	802.0	659.2	960.1	866.9	616.6	566.7	657.8	601.2	689.1	800.8	525.3
90	966.0	79.1	77.2	79.2	72.9	79.9	51.5	59.7	42.2	60.6	805.6	662.5	961.2	872.2	624.4	558.4	661.7	603.1	692.5	802.3	530.1
91	967.0	80.3	78.0	80.3	73.5	82.5	52.8	59.1	40.5	61.3	809.0	667.2	964.4	877.5	631.7	549.1	665.4	605.2	695.8	803.9	535.2
92	968.4	82.6	79.1	81.5	74.3	85.4	52.9	59.9	42.2	63.7	812.7	673.5	965.0	881.0	639.5	546.4	669.3	607.4	699.3	805.6	539.9
93	969.9	85.8	80.1	82.8	75.2	88.1	54.5	59.9	42.7	65.1	816.4	681.1	966.8	884.1	648.3	549.7	673.5	609.9	703.1	807.3	544.8
94	971.2	88.4	81.2	84.4	76.5	90.4	54.1	60.3	42.4	66.6	820.2	689.1	968.3	887.3	656.1	556.8	677.5	612.3	707.0	809.2	549.8
95	971.8	90.4	82.6	86.0	78.0	92.1	55.4	61.1	42.3	66.5	824.1	697.1	971.0	890.8	663.6	563.2	681.7	614.8	711.3	811.2	554.9
96	973.1	92.1	84.6	87.6	79.7	93.7	56.0	61.2	42.9	67.0	827.9	705.7	973.2	897.4	671.1	571.0	686.4	617.6	716.0	813.3	560.3
97	974.7	93.5	86.4	89.0	81.3	95.3	57.2	61.3	41.8	67.2	831.8	715.4	975.0	899.8	678.2	579.3	691.3	620.6	721.0	815.6	565.9
98	976.0	94.9	88.2	90.4	82.9	96.9	57.9	62.4	45.5	68.8	835.5	725.6	977.1	905.4	685.0	586.0	696.5	623.7	726.1	818.1	571.7
99	977.1	96.1	89.6	91.3	84.1	98.1	57.6	63.0	42.7	68.5	839.1	735.0	977.7	910.8	691.4	597.9	701.8	626.9	731.6	820.8	577.5
100	977.8	97.2	90.7	92.1	85.4	99.3	57.9	64.5	44.4	68.6	842.9	746.5	978.3	917.8	697.5	609.5	707.6	630.5	737.7	824.4	583.7
101	978.4	98.0	91.9	92.9	86.7	100.3	58.7	66.3	44.1	69.8	858.1	762.2	988.3	970.9	706.5	622.4	715.4	637.0	752.8	844.0	593.3
102	981.2	98.8	92.8	93.5	87.9	101.2	59.6	66.8	45.4	69.6	879.1	779.6	991.8	977.3	724.8	636.1	734.6	656.3	775.7	869.1	604.1
103	982.3	99.5	93.7	94.1	88.9	102.1	59.1	69.5	45.3	70.2	889.3	791.8	995.2	979.9	742.0	650.1	752.9	678.4	792.3	880.8	620.4
104	983.2	100.2	94.8	94.8	90.1	103.0	62.4	71.3	47.0	72.0	894.3	799.9	997.0	981.9	754.9	663.5	769.9	698.6	804.6	887.0	637.4
105	984.1	100.8	95.7	95.4	91.1	103.7	63.0	72.8	47.4	73.2	897.3	804.5	997.9	982.9	764.2	674.8	782.1	716.4	812.4	890.9	652.0
106	985.5	101.4	96.5	96.0	92.2	104.5	66.0	74.5	48.5	74.7	899.6	808.1	1000.0	985.3	771.6	684.7	789.7	731.6	817.6	893.4	664.1
107	987.3	102.0	97.2	96.5	93.1	105															

Table 33. Temperatures Measured in Assembly S-42, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
116	996.9	107.7	102.7	101.1	99.5	112.6	72.9	82.2	56.7	85.6	914.6	830.8	1012.3	997.7	812.6	744.4	815.1	794.9	839.3	898.6	712.6
117	998.7	108.7	103.2	101.7	100.1	113.6	73.3	81.6	54.1	86.3	916.0	832.4	1014.0	999.5	815.2	748.7	817.0	797.7	841.3	899.4	716.1
118	999.8	109.6	103.9	102.2	100.8	114.6	72.6	83.0	54.6	87.3	917.6	835.3	1014.8	1001.0	818.4	753.8	819.0	800.7	843.6	900.2	718.1
119	1001.0	110.7	104.6	102.8	101.5	115.7	72.9	83.8	56.3	88.5	919.1	838.0	1016.6	1003.4	821.3	759.0	821.1	803.3	845.8	901.0	722.1
120	1001.9	111.6	105.4	103.4	102.2	116.6	74.3	84.6	55.9	89.4	920.6	840.8	1017.7	1004.6	824.2	764.2	823.2	806.0	848.1	902.0	727.9
121	1002.8	112.6	106.2	104.0	103.0	117.5	77.5	86.5	57.5	91.3	922.0	843.5	1018.6	1005.4	827.2	769.3	825.3	808.1	850.2	902.5	731.4
122	1003.6	113.6	107.2	104.7	103.8	118.9	78.5	87.4	58.1	92.9	923.5	846.5	1018.9	1006.6	830.7	774.4	827.6	810.8	852.8	903.2	733.7
123	1005.2	114.7	108.0	105.4	104.7	120.2	78.1	87.4	55.8	93.6	924.9	848.5	1020.5	1008.1	832.9	778.9	829.7	812.9	854.9	903.9	736.6
124	1006.2	115.8	109.0	106.2	105.6	121.7	79.5	88.2	57.9	94.8	926.5	850.4	1022.4	1009.5	835.4	783.0	831.8	815.0	857.0	904.7	738.9
125	1006.9	116.9	110.0	107.1	106.4	123.5	79.1	89.2	58.5	95.6	927.7	853.2	1023.3	1010.6	838.2	787.6	834.1	817.2	859.0	905.5	742.0
126	1008.2	118.0	110.9	108.0	107.3	126.1	79.2	90.4	59.8	96.8	928.9	855.8	1024.7	1013.3	840.8	792.0	836.5	819.4	861.1	906.4	744.9
127	1009.1	119.4	111.9	108.9	108.1	129.7	80.3	91.7	60.7	98.1	930.2	858.6	1024.8	1013.9	843.3	798.3	838.9	821.5	863.2	907.6	749.5
128	1010.6	121.2	112.7	109.9	108.9	132.7	81.8	92.5	59.6	99.4	931.9	860.7	1026.4	1015.1	845.2	800.3	841.3	823.6	865.6	909.1	752.6
129	1011.2	123.3	113.7	110.8	109.7	133.9	84.6	94.8	59.7	101.1	933.3	861.8	1027.5	1015.6	846.9	803.2	843.6	825.5	867.7	910.3	755.1
130	1011.9	125.1	114.9	111.7	110.6	136.5	84.7	95.0	62.2	103.1	934.4	863.4	1028.7	1017.2	848.8	806.2	845.8	827.4	869.6	911.2	759.6
131	1012.5	130.2	116.1	112.7	111.6	141.5	84.7	96.2	60.5	103.7	935.4	865.3	1028.8	1018.1	851.1	809.3	848.2	829.4	871.8	912.2	759.5
132	1014.0	134.7	117.6	113.6	112.7	150.7	88.8	98.4	63.5	106.4	936.7	867.4	1031.1	1019.7	853.1	812.6	850.8	831.5	874.3	913.1	761.2
133	1014.8	139.4	119.1	114.6	113.9	159.7	90.1	99.3	64.0	107.2	938.2	868.8	1031.7	1020.8	854.9	815.1	853.2	833.9	876.6	914.5	767.6
134	1016.0	149.5	120.7	115.7	115.3	180.3	91.6	100.2	67.6	110.5	939.2	870.9	1033.0	1022.3	856.9	818.2	855.5	836.0	878.9	915.5	774.6
135	1017.1	158.5	123.0	116.8	117.0	203.5	93.5	102.1	65.7	111.2	940.8	872.5	1034.3	1023.1	858.8	820.8	858.0	838.3	881.4	916.6	779.4
136	1017.8	181.3	126.4	118.1	118.9	224.3	95.3	102.4	64.7	113.9	941.8	874.3	1034.6	1023.7	860.8	823.4	860.3	840.6	883.6	917.6	783.5
137	1018.9	202.4	130.6	119.5	120.9	245.1	99.3	104.6	67.9	116.2	943.2	875.9	1036.2	1025.4	862.8	826.0	862.7	842.9	886.1	918.8	784.4
138	1020.0	222.5	134.1	120.9	122.6	268.1	101.5	105.1	66.6	115.8	944.7	877.7	1037.4	1026.4	864.8	828.5	865.0	845.3	888.3	920.0	789.5

Table 33. Temperatures Measured in Assembly S-42, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
0	24.2	24.6	24.4	24.2	25.4	24.8	***	***	25.1	24.6	***	***	25.3	24.7	***	***	25.1	24.5
1	302.5	24.5	24.6	24.3	25.4	24.8	***	***	25.1	24.6	***	***	25.3	24.7	***	***	25.1	24.5
2	414.0	24.6	37.5	29.5	25.4	24.8	***	***	25.1	24.6	***	***	25.3	24.7	***	***	25.1	24.5
3	480.7	24.9	78.6	68.1	25.6	24.8	***	***	25.1	24.6	***	***	25.3	24.7	***	***	25.1	24.5
4	531.3	27.1	89.1	84.6	26.8	25.5	***	***	25.1	24.6	***	***	25.3	24.7	***	***	25.1	24.5
5	561.1	32.1	92.5	90.0	42.5	28.3	***	***	26.5	24.6	***	***	25.3	24.7	***	***	25.2	24.6
6	597.6	38.7	93.4	91.7	57.1	38.2	***	***	29.9	25.0	***	***	25.7	24.8	***	***	25.6	24.9
7	620.8	45.2	94.1	92.6	63.1	46.9	***	***	33.4	26.0	***	***	27.1	25.1	***	***	26.6	25.6
8	641.7	50.5	94.9	93.2	67.1	52.1	***	***	36.4	27.7	***	***	29.5	26.0	***	***	28.3	26.6
9	658.9	54.6	97.3	95.3	69.5	55.3	***	***	39.2	29.9	***	***	32.5	27.3	***	***	30.4	28.1
10	674.2	57.9	101.2	100.1	71.0	57.4	***	***	41.6	32.2	***	***	35.7	29.2	***	***	32.9	29.8
11	686.9	60.6	106.2	105.0	72.6	59.3	***	***	43.9	34.5	***	***	38.7	31.2	***	***	35.4	31.6
12	699.6	63.0	109.9	108.0	74.2	61.4	***	***	45.9	36.8	***	***	41.6	33.3	***	***	37.9	33.6
13	711.4	65.3	113.2	109.8	75.9	63.6	***	***	47.7	39.0	***	***	44.3	35.5	***	***	40.3	35.5
14	723.7	67.5	116.2	111.1	77.5	65.8	***	***	49.4	41.2	***	***	47.0	37.5	***	***	42.6	37.4
15	736.4	69.5	118.7	112.5	79.0	68.0	***	***	51.1	43.4	***	***	49.6	39.6	***	***	44.9	39.3
16	745.4	71.5	121.5	114.5	79.8	70.1	***	***	52.7	45.5	***	***	52.0	41.7	***	***	47.0	41.2
17	753.8	73.0	129.8	120.0	80.2	72.0	***	***	54.3	47.7	***	***	54.2	43.8	***	***	49.0	43.0
18	762.4	74.3	137.9	126.4	80.8	73.1	***	***	55.8	49.8	***	***	56.0	46.0	***	***	50.8	44.9
19	770.8	73.7	165.8	140.5	78.7	74.1	***	***	57.2	51.7	***	***	57.6	48.1	***	***	52.4	46.5
20	779.0	73.4	221.7	192.6	76.1	72.4	***	***	58.5	53.7	***	***	58.5	50.0	***	***	53.7	47.8
21	786.0	74.8	293.5	260.0	77.8	70.3	***	***	59.3	55.5	***	***	58.8	51.3	***	***	54.9	49.1
22	792.4	75.8	352.7	321.5	75.9	71.7	***	***	60.0	56.5	***	***	59.0	52.0	***	***	55.7	50.3
23	798.3	77.8	403.6	381.0	73.3	70.7	***	***	60.6	57.4	***	***	59.3	52.6	***	***	56.4	51.4
24	804.0	82.3	442.4	425.9	71.6	69.5	***	***	61.1	58.3	***	***	59.1	53.1	***	***	57.4	52.4
25	810.3	89.0	476.9	464.4	70.4	68.6	***	***	61.8	59.1	***	***	58.8	53.3	***	***	58.1	53.4
26	815.6	96.9	508.8	498.7	70.1	68.8	***	***	62.7	59.9	***	***	58.3	53.4	***	***	59.5	54.7
27	819.6	106.5	539.5	530.4	70.7	72.1	***	***	63.7	60.7	***	***	57.9	53.3	***	***	60.8	56.1
28	823.5	116.5	567.9	559.5	74.5	79.0	***	***	64.5	61.5	***	***	57.6	53.3	***	***	62.4	58.0
29	828.1	126.9	592.2	585.0	87.6	88.9	***	***	65.4	62.6	***	***	57.6	53.4	***	***	64.0	59.8
30	833.2	137.9	613.4	607.2	104.9	100.1	***	***	66.5	63.8	***	***	57.6	53.7	***	***	65.9	61.8
31	837.6	148.9	632.4	626.1	117.0	111.4	***	***	67.9	65.2	***	***	58.0	54.3	***	***	67.9	63.8
32	841.3	159.3	648.9	642.1	128.4	122.5	***	***	69.6	66.8	***	***	58.8	55.1	***	***	70.0	66.0
33	845.6	169.0	669.9	656.3	139.2	133.0	***	***	71.5	68.4	***	***	60.1	56.4	***	***	72.2	68.5
34	848.9	178.1	678.1	669.2	148.8	142.8	***	***	73.7	70.6	***	***	61.6	58.0	***	***	74.9	71.6
35	852.7	186.7	692.0	681.8	157.7	151.8	***	***	76.1	73.3	***	***	63.4	59.8	***	***	77.5	74.8
36	856.0	195.1	704.9	693.6	167.1	160.3	***	***	78.9	76.0	***	***	65.3	61.8	***	***	79.8	77.6
37	859.8	203.0	716.9	704.1	177.3	168.8	***	***	81.5	78.2	***	***	66.9	63.7	***	***	81.8	80.0
38	863.8	210.7	728.7	714.2	187.8	177.3	***	***	84.0	80.2	***	***	68.4	65.3	***	***	83.7	82.2
39	866.1	218.0	739.3	723.7	197.8	185.7	***	***	86.4	81.9	***	***	69.7	66.7	***	***	85.4	84.4
40	869.4	224.7	749.4	733.0	206.2	193.7	***	***	88.7	83.6	***	***	70.9	68.0	***	***	86.6	86.6
41	872.3	231.2	758.4	740.8	211.3	201.4	***	***	90.8	85.1	***	***	72.0	69.2	***	***	87.9	86.6
42	875.4	237.4	767.1	748.3	215.5	208.6	***	***	92.8	86.6	***	***	73.1	70.4	***	***	89.2	90.4
43	878.5	243.7	775.4	755.2	220.0	215.0	***	***	94.7	87.9	***	***	74.3	71.7	***	***	90.5	92.1
44	881.3	250.0	784.5	762.5	225.3	220.5	***	***	96.5	89.1	***	***	75.6	73.2	***	***	91.3	93.6
45	884.0	256.4	793.1	769.5	231.2	225.9	***	***	98.1	90.3	***	***	77.2	74.9	***	***	92.5	95.1
46	887.4	262.4	802.5	777.5	238.0	231.3	***	***	99.6	91.3	***	***	79.1	76.7	***	***	93.6	96.6
47	889.2	267.9	811.6	784.6	246.0	237.4	***	***	101.0	92.3	***	***	80.9	78.5	***	***	94.6	98.0
48	891.3	273.0	820.3	791.6	255.1	243.9	***	***	102.4	93.3	***	***	82.6	80.3	***	***	95.7	99.4
49	894.7	278.2	827.7	798.8	265.5	250.6	***	***	103.6	94.2	***	***	84.0	81.8	***	***	96.8	100.8
50	896.6	283.5	834.5	806.1	278.7	257.4	***	***	104.8	95.1	***	***	85.3	83.1	***	***	97.9	102.2
51	898.7	288.6	840.7	812.6	297.7	264.3	***	***	106.0	95.9	***	***	86.4	84.3	***	***	98.9	103.6
52	901.6	293.8	845.9	817.6	324.4	271.1	***	***	107.1	96.7	***	***	87.5	85.3	***	***	100.2	105.2
53	902.9	299.1	849.8	820.6	334.3	277.6	***	***	108.2	97.5	***	***	88.4	86.2	***	***	101.4	106.7
54	905.1	303.6	854.1	822.4	339.3	283.7	***	***	109.2	98.2	***	***	89.4	87.1	***	***	102.9	108.3
55	907.1	308.5	860.4	823.8	350.4	289.5	***	***	110.2	99.0	***	***	90.2	87.9	***	***	104.4	109.9
56	909.7	312.7	862.7	822.2	363.2	295.2	***	***	111.1	99.6	***	***	91.1	88.6	***	***	106.3	111.5
57	912.6	317.8	859.7	818.7	374.2	300.1	***	***	112.1	100.4	***	***	92.0	89.4	***	***	108.3	113.2

Table 33. Temperatures Measured in Assembly S-42, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
58	914.3	323.7	855.2	815.6	388.8	304.8	***	***	113.0	101.0	***	***	92.9	90.0	***	***	110.5	115.0
59	916.6	330.4	849.5	813.0	407.1	309.0	***	***	114.0	101.7	***	***	93.8	90.7	***	***	112.8	116.7
60	918.2	338.7	844.5	810.8	421.2	314.3	***	***	115.0	102.4	***	***	94.7	91.3	***	***	115.3	118.5
61	920.4	349.2	839.2	808.2	438.2	323.1	***	***	116.0	103.0	***	***	95.7	91.9	***	***	117.7	120.4
62	922.0	362.3	834.7	805.5	458.6	333.9	***	***	117.1	103.8	***	***	96.7	92.5	***	***	120.0	122.4
63	924.8	378.2	830.2	802.6	481.4	347.1	***	***	118.1	104.4	***	***	97.7	93.1	***	***	122.3	124.4
64	925.3	397.2	825.5	799.4	505.8	362.9	***	***	119.2	105.1	***	***	98.6	93.7	***	***	124.5	126.4
65	927.8	419.3	819.8	795.7	530.7	381.3	***	***	120.4	105.8	***	***	99.5	94.2	***	***	126.7	128.4
66	929.0	443.6	814.0	791.6	554.1	401.8	***	***	121.6	106.5	***	***	100.4	94.7	***	***	129.2	130.5
67	931.0	468.8	808.1	787.3	575.4	423.3	***	***	122.9	107.2	***	***	101.3	95.3	***	***	131.9	132.6
68	933.9	491.9	802.9	783.4	593.5	442.9	***	***	124.2	108.0	***	***	102.3	95.6	***	***	134.8	134.6
69	934.2	513.2	798.0	780.1	609.2	459.2	***	***	125.7	108.7	***	***	103.3	96.4	***	***	138.0	136.6
70	936.7	531.6	794.1	778.0	623.6	472.5	***	***	127.3	109.5	***	***	104.3	97.0	***	***	141.3	138.6
71	938.4	546.8	791.5	777.2	636.5	483.9	***	***	129.1	110.2	***	***	105.4	97.5	***	***	144.6	140.5
72	939.2	555.4	790.9	779.0	647.4	494.5	***	***	131.1	110.9	***	***	106.5	98.1	***	***	147.8	142.5
73	940.8	559.3	792.6	781.6	656.0	504.8	***	***	133.3	111.7	***	***	107.7	98.8	***	***	151.0	144.4
74	943.1	558.9	797.0	785.7	662.1	516.4	***	***	136.0	112.5	***	***	109.2	99.4	***	***	154.3	146.4
75	943.8	556.6	804.4	791.0	665.4	527.2	***	***	139.0	113.3	***	***	110.7	100.1	***	***	158.1	148.3
76	945.5	552.0	814.5	797.2	663.8	534.4	***	***	142.5	114.1	***	***	112.4	100.8	***	***	162.4	150.2
77	946.8	541.5	824.6	803.2	652.7	532.7	***	***	146.5	114.9	***	***	114.3	101.5	***	***	167.0	151.9
78	948.2	522.8	834.6	807.4	629.0	521.3	***	***	151.0	115.8	***	***	116.2	102.3	***	***	172.2	153.7
79	949.8	488.0	844.6	810.9	604.8	502.9	***	***	156.3	116.6	***	***	118.5	103.1	***	***	177.0	155.8
80	951.4	460.0	852.0	814.4	592.6	481.7	***	***	162.3	117.5	***	***	121.3	103.9	***	***	181.6	158.0
81	953.3	443.9	857.3	818.1	594.3	464.8	***	***	169.0	118.5	***	***	124.8	104.7	***	***	185.7	160.5
82	953.9	430.8	859.7	821.6	600.4	459.3	***	***	176.2	119.6	***	***	129.3	105.7	***	***	189.3	163.2
83	955.9	424.7	862.2	824.6	606.7	460.0	***	***	184.2	120.9	***	***	134.5	106.8	***	***	193.2	166.1
84	958.4	427.5	865.0	827.1	613.5	461.6	***	***	192.6	122.3	***	***	140.5	107.6	***	***	197.5	169.2
85	959.0	430.7	867.7	829.8	620.9	463.8	***	***	201.0	123.8	***	***	148.4	108.7	***	***	201.9	172.4
86	960.7	433.5	870.8	832.7	628.9	467.4	***	***	209.3	125.6	***	***	159.1	109.7	***	***	206.2	175.7
87	962.3	436.5	873.4	835.5	637.0	473.3	***	***	217.4	126.0	***	***	172.4	110.9	***	***	210.7	178.8
88	963.5	439.9	877.1	838.1	645.8	479.2	***	***	225.6	131.2	***	***	187.0	112.3	***	***	215.1	181.9
89	965.5	443.3	880.6	841.0	654.7	485.2	***	***	233.6	134.7	***	***	198.6	114.0	***	***	219.9	184.9
90	966.0	446.8	883.6	844.1	663.9	491.5	***	***	241.6	138.0	***	***	207.9	115.8	***	***	225.0	168.0
91	967.0	450.1	887.5	847.1	671.6	497.4	***	***	249.4	141.5	***	***	215.7	118.1	***	***	230.2	191.1
92	968.4	453.5	891.0	850.3	679.5	503.9	***	***	257.2	146.5	***	***	222.7	120.8	***	***	235.6	194.4
93	969.9	456.9	895.1	853.6	688.0	511.1	***	***	264.6	152.5	***	***	230.2	124.1	***	***	241.0	197.8
94	971.2	460.3	899.0	857.3	694.9	517.6	***	***	271.8	161.0	***	***	238.4	127.8	***	***	246.6	201.4
95	971.8	464.1	903.4	861.1	701.9	524.6	***	***	278.5	171.2	***	***	247.2	132.0	***	***	252.3	205.2
96	973.1	467.9	907.6	865.4	708.6	531.5	***	***	284.6	180.9	***	***	255.4	137.5	***	***	258.2	209.1
97	974.7	471.7	911.5	871.0	714.7	538.8	***	***	290.4	189.6	***	***	263.2	145.1	***	***	264.2	213.0
98	976.0	475.6	915.0	877.3	720.3	546.8	***	***	296.1	197.6	***	***	270.4	153.9	***	***	270.5	217.0
99	977.1	479.3	918.9	886.8	726.0	555.8	***	***	301.8	205.0	***	***	277.4	165.3	***	***	277.0	220.7
100	977.8	483.2	923.5	899.2	731.3	565.8	***	***	307.5	212.1	***	***	284.4	175.5	***	***	283.5	224.3
101	978.4	488.2	1024.3	994.6	755.6	581.3	***	***	313.1	219.1	***	***	291.5	183.1	***	***	290.5	227.9
102	981.2	497.9	1025.7	999.4	787.4	612.8	***	***	318.9	226.5	***	***	299.1	189.0	***	***	297.5	231.6
103	982.3	511.7	1028.8	1003.9	808.2	641.0	***	***	325.2	233.9	***	***	307.6	195.0	***	***	305.4	236.6
104	983.2	527.9	1029.8	1004.9	821.5	661.8	***	***	332.0	241.3	***	***	317.5	202.4	***	***	315.1	240.2
105	984.1	544.1	1029.0	1005.5	831.0	678.6	***	***	339.1	248.9	***	***	328.6	211.9	***	***	325.4	245.7
106	985.5	559.9	1032.1	1007.7	838.2	692.8	***	***	346.4	256.9	***	***	339.9	223.4	***	***	335.6	252.0
107	987.3	574.6	1030.3	1008.4	843.9	704.6	***	***	353.9	265.0	***	***	350.8	235.1	***	***	345.2	259.2
108	987.9	587.9	1031.0	1009.7	849.5	715.4	***	***	361.6	273.2	***	***	361.1	245.6	***	***	354.3	267.2
109	989.3	600.0	1032.9	1011.2	853.3	723.7	***	***	369.9	280.9	***	***	371.1	255.6	***	***	362.8	275.8
110	989.6	610.6	1032.9	1012.3	857.1	731.2	***	***	379.0	287.5	***	***	380.9	265.2	***	***	370.7	284.8
111	990.7	620.2	1036.0	1013.9	861.0	738.4	***	***	387.4	292.9	***	***	390.7	274.2	***	***	378.5	294.0
112	992.3	628.8	1034.9	1014.9	863.9	744.7	***	***	393.5	298.4	***	***	399.5	292.8	***	***	386.3	303.5
113	993.7	636.6	1036.4	1015.8	866.8	749.8	***	***	398.9	304.2	***	***	407.8	290.7	***	***	394.2	312.9
114	994.9	643.9	1037.0	1017.1	869.3	765.0	***	***	404.2	310.4	***	***	415.9	300.1	***	***	402.3	322.5
115	995.6	650.2	1037.6	1019.3	871.3	759.9	***	***	410.0	316.6	***	***	423.5	310.0	***	***	410.1	332.2

Table 34. Average Temperatures Measured in Assembly S-42, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,28)	BL/Wstd. (Exp.) Av(12,13,18,19)	Mid Wstd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/Wstd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(26,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
0	24.2	24.3	24.4	24.6	25.1	24.8	24.9	25.0
1	302.5	24.4	24.6	24.6	25.1	24.8	24.9	25.0
2	414.0	33.5	31.6	25.0	25.1	24.8	24.9	24.9
3	480.7	73.3	60.8	29.3	25.3	25.1	24.9	24.9
4	531.3	86.8	84.2	50.5	25.2	28.0	24.8	24.9
5	561.1	91.2	90.2	75.5	35.4	43.1	25.2	24.9
6	597.8	92.5	92.9	81.6	47.7	51.8	26.0	24.9
7	620.8	93.4	93.7	84.2	55.0	57.3	27.3	24.9
8	641.7	94.0	94.2	85.5	59.6	81.1	29.1	24.9
9	658.9	96.3	94.3	86.2	62.4	64.3	31.2	24.9
10	674.2	100.6	94.4	86.6	64.2	66.7	33.6	25.1
11	686.9	105.6	94.9	87.0	65.9	68.4	35.9	25.3
12	698.6	108.9	96.3	87.6	67.8	70.3	38.2	25.7
13	711.4	111.5	100.0	88.2	69.7	71.9	40.4	26.3
14	723.7	113.6	105.2	88.8	71.6	73.6	42.5	27.0
15	736.4	115.6	111.8	89.5	79.5	75.0	44.6	27.9
16	745.4	118.0	118.8	90.0	75.0	76.4	46.7	28.8
17	753.3	124.9	127.7	90.2	76.1	77.3	48.7	30.0
18	762.4	132.2	138.4	90.8	77.0	78.0	50.5	31.2
19	770.8	153.2	152.6	90.9	76.4	78.4	52.2	32.5
20	779.0	207.2	174.2	93.8	74.3	76.9	53.7	33.9
21	786.0	276.7	204.3	103.2	74.1	75.8	54.8	35.4
22	792.1	337.1	234.3	117.4	73.8	76.4	55.6	36.9
23	798.3	392.3	268.1	134.6	72.0	77.5	56.3	38.4
24	804.0	434.1	303.2	153.5	70.6	79.6	56.9	39.7
25	810.3	470.6	334.9	173.9	69.5	83.2	57.4	40.9
26	815.6	503.7	363.0	193.8	69.5	88.8	58.1	41.9
27	819.6	534.9	391.4	213.3	71.4	95.7	58.7	42.8
28	823.5	563.7	418.0	232.9	76.8	103.5	59.5	43.5
29	829.1	588.6	442.2	252.5	88.2	112.4	60.5	44.2
30	833.7	610.3	464.1	271.2	102.5	122.2	61.6	44.7
31	837.1	629.3	485.2	289.0	114.2	131.7	62.9	45.2
32	841.3	645.5	506.2	305.8	125.5	141.0	64.4	45.7
33	845.6	660.1	526.4	321.9	136.1	149.9	66.2	46.2
34	848.0	673.6	546.0	337.2	145.8	158.5	68.4	46.8
35	852.7	686.9	563.8	351.8	154.7	166.7	70.8	47.5
36	856.0	699.3	580.3	365.7	163.7	174.8	73.2	48.2
37	859.8	710.5	595.8	378.8	173.0	182.5	75.4	49.1
38	863.0	721.4	610.4	391.1	182.5	190.3	77.3	50.1
39	866.1	731.5	624.5	402.8	191.8	198.0	79.1	51.1
40	869.2	741.2	637.5	413.8	199.9	205.6	80.7	52.2
41	872.3	749.6	650.4	424.2	206.4	213.1	82.3	53.3
42	875.4	757.7	662.0	433.9	212.1	220.5	83.7	54.4
43	878.5	765.3	672.5	443.3	217.5	228.1	85.2	55.6
44	881.3	773.5	682.9	452.2	222.9	235.7	86.6	56.8
45	884.0	781.3	692.7	460.8	228.5	243.5	88.0	58.0
46	887.4	790.0	703.0	469.1	234.7	251.4	89.5	59.2
47	890.2	798.1	712.3	477.3	241.7	259.4	90.9	60.4
48	891.3	806.0	721.3	485.4	249.5	267.3	92.2	61.4
49	894.7	813.3	730.0	493.3	258.0	275.6	93.5	62.4
50	895.0	820.3	738.1	501.4	268.1	284.3	94.7	63.3
51	898.7	826.6	745.3	510.0	281.0	293.0	95.8	64.2
52	901.6	831.7	749.8	520.4	297.7	300.7	97.0	64.9
53	902.9	835.2	753.9	533.0	305.9	305.6	98.1	65.6
54	905.0	838.3	759.1	540.8	311.5	309.7	99.2	66.3
55	907.1	842.1	765.5	547.3	319.9	316.7	100.3	66.8
56	909.7	842.5	776.8	556.8	329.2	335.4	101.4	67.3
57	912.0	839.2	783.1	560.2	337.1	343.7	102.6	67.7

Table 34. Average Temperatures Measured in Assembly S-42, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/Cav. (Exp.) Av(12,13,14,15)	Mid Stud. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/Sig. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
56	914.3	835.4	785.5	560.3	346.8	346.9	103.7	68.1
59	916.6	831.3	785.7	563.2	358.0	352.3	104.9	68.5
60	918.2	827.7	786.0	567.2	367.8	360.0	106.2	68.8
61	920.4	823.7	785.4	572.7	380.6	368.6	107.5	69.2
62	922.0	820.1	785.7	578.9	396.3	376.1	108.8	69.4
63	924.3	818.4	785.6	585.6	414.3	385.8	110.0	69.6
64	926.5	812.5	784.8	592.9	434.3	388.2	111.3	69.8
65	927.8	807.8	783.8	600.6	456.0	412.7	112.5	70.0
66	929.0	802.8	782.1	608.1	478.0	427.9	113.8	70.1
67	931.0	797.7	780.2	615.8	499.3	444.2	115.2	70.2
68	933.0	793.1	778.7	623.3	518.2	460.3	116.6	70.3
69	934.2	789.1	777.6	630.9	534.2	476.5	118.1	70.4
70	936.7	786.0	776.9	638.3	548.1	491.4	119.6	70.5
71	938.4	784.4	777.1	645.3	560.2	504.9	121.2	70.5
72	939.2	784.9	777.9	652.3	570.9	516.9	122.8	70.5
73	940.8	787.1	779.5	658.1	580.4	527.1	124.5	70.5
74	943.1	791.3	782.2	662.5	589.3	535.5	126.3	70.6
75	943.8	797.7	785.9	664.3	596.3	543.3	128.3	70.6
76	945.6	805.8	790.8	665.1	599.1	549.5	130.4	70.7
77	946.8	813.9	793.9	664.3	592.7	550.9	132.7	70.8
78	948.2	821.0	793.9	684.6	676.1	643.9	135.2	71.0
79	949.8	827.8	793.6	664.5	553.9	526.8	137.9	71.2
80	951.4	833.2	796.9	664.1	537.2	515.1	140.8	71.4
81	952.3	837.7	801.0	664.1	529.5	513.2	143.9	71.7
82	953.9	840.7	804.0	664.1	529.8	513.6	147.2	72.2
83	955.9	843.4	807.6	664.7	533.4	516.3	150.9	72.6
84	958.4	846.1	811.0	666.8	537.6	520.8	154.9	73.1
85	959.0	848.7	814.2	669.5	542.3	525.3	159.4	73.7
86	960.7	851.8	817.8	672.1	548.1	529.0	164.3	74.3
87	962.3	854.5	821.4	674.7	555.2	532.6	169.7	75.0
88	963.5	857.6	825.4	677.3	562.5	535.5	175.5	75.7
89	965.5	860.8	829.2	680.0	569.0	538.0	181.0	76.6
90	966.0	863.8	832.1	683.2	577.4	539.9	186.0	77.6
91	967.0	867.3	835.4	686.7	584.5	541.5	191.0	78.9
92	968.4	870.7	837.7	690.7	591.7	544.8	196.2	80.6
93	969.9	874.4	840.3	695.2	599.5	549.9	201.7	82.4
94	971.2	878.2	842.9	699.8	606.3	555.5	207.9	84.2
95	971.8	882.3	846.1	704.4	613.3	561.5	214.4	85.8
96	973.1	886.5	850.0	709.4	620.0	567.6	221.0	87.5
97	974.7	891.2	852.8	714.7	626.7	573.8	227.6	89.1
98	976.0	896.2	856.7	720.3	633.5	580.1	234.3	90.6
99	977.1	902.8	860.2	725.7	640.9	586.5	241.2	91.9
100	977.8	911.3	864.5	731.9	648.6	593.5	247.9	92.9
101	978.4	1009.5	869.0	743.2	668.5	602.6	254.2	93.9
102	981.2	1012.6	903.5	762.4	700.1	615.8	260.4	94.8
103	982.3	1016.4	912.1	778.1	724.6	631.0	267.1	95.7
104	983.2	1017.3	917.6	790.7	741.7	645.9	274.6	96.5
105	984.1	1017.2	921.0	800.0	754.8	658.8	283.3	97.4
106	985.3	1019.9	924.1	807.3	765.5	670.0	292.4	98.1
107	987.4	1019.4	926.8	812.1	774.3	679.5	301.6	98.7
108	987.9	1020.4	927.2	816.8	782.5	687.7	310.5	99.5
109	989.3	1022.1	928.7	820.8	788.5	695.1	319.3	100.1
110	990.6	1022.6	929.6	824.2	794.2	701.4	328.0	100.7
111	990.7	1024.9	930.9	827.2	799.7	707.2	336.3	101.3
112	992.3	1024.9	931.8	830.0	804.3	712.2	344.0	101.9
113	993.7	1026.1	933.1	832.4	808.3	717.1	351.5	102.6
114	994.3	1027.0	934.4	834.6	817.2	721.9	359.2	103.3
115	995.6	1028.4	935.2	836.8	816.6	726.4	367.1	104.0

Table 34. Average Temperatures Measured in Assembly S-42, Steel Stud, 1x2 Gypsum Board Layers, Mineral Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,18,19)	Mid SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
116	996.9	1031.1	937.0	838.8	819.1	731.3	374.8	104.7
117	998.7	1031.8	938.6	840.8	822.2	735.4	382.3	105.5
118	999.8	1032.6	939.9	843.1	826.1	739.3	389.7	106.2
119	1001.0	1034.8	941.7	845.4	829.7	743.7	396.7	107.1
120	1001.9	1035.5	943.1	847.7	833.0	748.3	403.5	107.8
121	1002.8	1036.3	944.2	849.7	836.6	752.5	409.9	108.7
122	1003.6	1037.6	945.4	852.1	840.9	756.5	416.3	109.6
123	1005.2	1038.0	946.8	854.0	843.4	760.0	422.5	110.6
124	1006.2	1039.7	948.4	855.9	846.6	763.4	428.6	111.7
125	1006.9	1040.6	949.6	858.0	850.2	767.3	434.6	112.8
126	1008.2	1042.6	951.4	860.1	853.7	770.9	440.5	114.1
127	1009.1	1042.5	952.4	862.3	857.0	776.0	446.4	115.6
128	1010.6	1043.9	954.1	864.4	860.0	778.4	452.1	117.1
129	1011.2	1043.7	955.3	866.1	862.5	781.2	457.7	118.3
130	1011.9	1045.5	956.7	867.8	865.1	784.5	463.4	120.0
131	1012.6	1046.3	957.7	869.6	868.4	786.8	469.3	122.4
132	1014.0	1047.7	969.5	871.6	871.4	789.6	475.0	125.8
133	1014.8	1049.6	960.9	873.5	874.0	793.2	480.6	129.3
134	1016.0	1049.6	962.4	875.4	876.8	797.2	486.3	136.3
135	1017.1	1051.7	963.9	877.4	879.5	800.5	492.0	144.0
136	1017.6	1051.5	964.9	879.2	882.2	803.6	497.6	153.8
137	1016.0	1053.8	966.6	881.2	884.8	805.8	503.2	163.7
138	1020.0	1054.3	968.0	883.2	887.6	809.2	508.7	173.6

Table 35. Temperatures Measured in Assembly S-43, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	29.2	26.3	26.6	26.1	26.0	26.5	27.1	26.7	26.6	26.8	26.6	26.1	26.7	26.4	26.6	26.7	26.7	26.1	26.8	26.5	26.3
1	303.2	26.3	26.6	26.1	26.0	26.5	27.2	26.9	26.7	26.9	26.6	26.2	26.8	27.5	26.6	26.8	26.9	26.2	27.7	26.9	26.4
2	413.4	26.3	26.6	26.1	26.0	26.5	27.3	27.0	26.8	27.0	26.7	26.7	36.9	37.9	26.6	26.8	27.3	26.2	47.6	42.4	26.6
3	481.5	26.3	26.6	26.1	26.0	26.5	27.3	27.0	26.8	27.0	29.8	29.6	94.2	77.3	26.7	27.1	33.3	26.3	76.4	72.1	29.9
4	534.6	26.4	26.6	26.2	26.1	26.5	27.3	27.0	26.8	27.1	48.1	43.6	97.9	97.9	28.2	28.5	46.1	27.0	88.6	65.8	39.8
5	563.4	26.4	26.7	26.1	26.1	26.5	27.3	27.0	26.8	27.0	72.5	80.7	97.4	98.0	37.1	31.3	59.7	30.2	92.8	90.4	52.0
6	594.3	26.4	26.7	26.2	26.1	26.6	27.3	27.0	26.8	27.0	82.7	91.3	97.8	99.0	48.3	35.6	70.1	44.2	93.8	92.3	62.4
7	616.5	26.4	26.7	26.2	26.1	26.6	27.3	26.9	26.8	27.0	85.3	91.4	98.0	100.5	54.3	40.8	76.4	57.3	94.3	92.8	69.4
8	644.5	26.4	26.7	26.2	26.1	26.6	27.2	26.9	26.8	26.9	85.9	91.1	97.7	101.7	57.9	46.3	80.8	63.6	95.0	93.8	74.4
9	660.5	26.4	26.7	26.2	26.2	26.7	27.2	26.9	26.8	26.9	86.6	91.5	97.7	104.2	60.9	51.8	84.0	67.3	95.7	94.5	78.2
10	674.9	26.4	26.7	26.3	26.2	26.7	27.2	26.9	26.8	26.9	87.3	91.8	98.1	108.6	63.5	56.9	86.3	70.2	96.5	95.1	81.2
11	687.8	26.5	26.7	26.3	26.3	26.9	27.2	26.9	26.8	27.0	87.8	92.1	99.1	114.6	65.7	61.4	87.9	72.6	97.6	96.3	89.4
12	699.8	26.6	26.9	26.4	26.5	27.2	27.4	27.0	26.8	27.1	88.3	92.3	101.4	121.8	67.7	65.4	89.0	74.6	100.1	98.6	85.0
13	711.9	26.7	27.0	26.5	26.8	27.5	27.5	27.0	26.9	27.2	88.9	92.6	107.5	128.7	69.5	68.5	89.7	76.3	106.1	104.1	86.1
14	724.6	26.9	27.2	26.8	27.2	28.0	27.1	26.2	26.5	26.5	89.5	92.9	115.3	135.1	71.1	71.0	90.4	77.7	110.9	110.6	87.2
15	738.0	27.2	27.4	27.1	27.6	28.6	26.7	25.2	26.1	25.9	90.1	93.3	122.9	141.7	72.7	73.0	91.2	78.9	114.9	114.8	88.1
16	746.1	27.5	27.7	27.4	28.1	29.2	29.7	25.1	26.1	25.6	90.9	94.1	130.9	149.1	74.1	74.9	92.0	80.0	118.8	118.7	89.0
17	754.4	27.9	28.1	27.8	28.7	30.0	26.8	25.3	26.0	25.3	91.9	95.4	139.0	158.7	75.4	76.5	92.7	81.0	122.7	122.6	89.7
18	761.8	28.4	28.6	28.3	29.3	30.8	27.1	25.4	26.2	26.1	93.0	97.4	149.4	174.0	76.6	77.8	93.3	81.8	128.0	128.6	90.1
19	770.6	29.0	29.3	29.0	30.1	31.9	27.7	25.8	26.5	26.2	94.3	99.8	164.8	194.0	77.8	78.8	93.8	82.3	134.7	132.2	90.3
20	778.9	29.7	30.0	29.7	30.9	33.1	28.2	26.1	26.9	26.4	***	***	***	***	***	***	***	***	***	***	***
21	786.3	30.5	30.9	30.6	31.9	34.4	28.7	28.7	27.3	27.0	98.6	106.9	212.6	240.5	77.9	78.4	95.8	82.9	183.0	161.1	90.4
22	792.5	31.3	31.8	31.6	33.0	35.8	29.4	27.1	27.8	27.2	102.0	111.5	228.5	262.6	80.2	80.3	103.5	81.9	216.6	197.3	94.9
23	798.5	32.3	32.9	32.6	34.1	37.2	30.3	28.0	28.5	28.3	107.8	117.0	245.1	284.0	81.4	82.3	111.8	80.3	252.5	230.3	100.8
24	804.7	33.3	33.9	33.6	35.3	38.6	30.2	28.2	28.8	28.3	114.1	124.3	265.6	305.4	81.7	83.5	122.1	80.5	285.6	261.8	108.7
25	810.8	34.3	35.0	34.7	36.4	40.0	30.7	28.5	29.6	28.8	121.8	133.1	301.7	326.6	82.4	84.5	133.7	81.8	316.5	292.0	118.5
26	816.2	35.4	36.2	35.8	37.4	41.3	31.0	28.4	30.1	28.8	130.5	142.4	349.9	355.8	83.5	85.7	146.1	83.8	345.8	320.8	129.8
27	819.7	36.5	37.2	36.9	38.3	42.6	31.4	29.1	30.9	29.2	140.7	152.3	394.5	388.4	84.5	87.2	159.2	85.1	374.8	348.6	142.4
28	824.0	37.7	38.4	38.0	39.3	43.8	32.1	29.8	31.6	29.8	152.1	163.0	434.5	413.3	85.5	89.0	173.1	86.2	402.5	376.5	155.7
29	829.4	38.8	39.5	38.1	40.3	45.1	32.7	30.2	32.4	30.4	164.4	174.5	463.5	439.4	86.5	91.1	187.1	87.5	428.3	402.6	170.0
30	834.0	40.0	40.6	40.1	41.1	46.1	32.9	30.6	33.0	30.7	177.5	187.7	486.5	468.8	87.6	93.4	201.6	89.1	459.2	429.0	185.0
31	837.6	41.1	41.6	41.2	41.9	47.2	33.5	30.8	33.7	30.4	191.5	202.7	508.2	498.2	88.9	96.1	216.9	91.0	484.1	455.8	200.7
32	841.7	42.2	42.6	42.2	42.7	48.2	34.1	30.9	34.3	31.0	205.7	219.6	527.4	525.7	90.7	93.3	232.7	93.2	507.7	478.9	216.7
33	845.4	43.2	43.7	43.1	43.4	49.3	34.3	31.4	35.2	31.3	219.8	237.0	543.7	550.1	92.9	103.0	248.6	95.8	530.1	500.6	232.9
34	850.1	44.2	44.7	44.1	44.1	50.2	35.4	32.1	35.8	32.2	233.9	254.4	559.3	572.0	95.4	107.1	264.4	98.9	553.1	520.9	249.3
35	853.3	45.2	45.6	44.9	44.8	51.0	36.2	32.2	36.3	32.3	247.8	271.9	573.1	590.8	98.3	111.6	279.6	102.7	572.7	540.2	266.4
36	856.7	46.2	46.6	45.9	45.4	52.1	36.6	32.7	36.9	32.4	261.4	289.2	586.3	607.1	101.6	116.4	294.2	107.3	581.1	559.4	284.6
37	860.0	47.1	47.5	46.8	46.0	53.0	37.3	32.8	37.3	32.8	274.7	306.4	598.1	621.6	105.2	121.4	308.1	113.2	608.0	578.7	304.8
38	864.0	48.1	48.4	47.8	46.5	54.0	36.7	33.6	37.7	33.1	287.5	323.0	608.8	634.8	109.1	126.6	321.5	120.9	623.0	598.9	327.7
39	866.0	49.0	49.3	48.8	47.0	54.9	39.0	33.0	37.9	33.0	300.0	338.8	617.2	647.2	113.5	132.0	334.6	131.4	636.9	618.3	354.5
40	869.4	49.9	50.0	49.7	47.4	55.8	39.7	32.9	38.0	32.8	312.3	353.8	625.2	659.1	118.6	137.7	347.7	146.1	650.2	637.9	386.8
41	872.5	50.8	50.8	50.6	47.8	56.7	40.0	33.2	38.3	32.8	324.5	366.5	632.9	670.5	124.2	143.7	361.8	166.9	663.3	658.2	425.5
42	875.6	51.8	51.5	51.5	48.2	57.5	40.9	33.9	38.8	33.7	337.0	380.2	641.2	681.3	130.2	150.0	376.8	195.8	674.9	677.8	471.2
43	878.4	52.6	52.3	52.3	48.5	58.3	41.4	34.0	38.8	33.9	349.6	393.7	649.3	692.4	136.6	156.9	391.8	234.7	685.9	685.5	522.4
44	881.4	53.5	52.9	53.0	48.9	59.2	42.2	34.4	39.4	34.9	362.4	407.0	659.9	703.8	143.4	164.0	407.1	284.5	696.2	711.2	576.1
45	884.2	54.2	53.6	53.7	49.3	59.9	42.5	34.7	39.6	35.1	375.3	421.2	672.7	715.2	150.6	171.4	423.5	342.8	705.1	725.0	626.7
46	887.5	55.1	54.2	54.4	49.8	60.7	43.8	36.1	40.2	36.7	388.5	435.6	690.1	726.2	158.0	179.3	440.1	403.7	713.2	737.8	667.9
47	890.1	55.9	54.9	55.2	50.4	61.5	45.1	37.4	40.9	38.2	402.1	449.6	706.7	736.1	165.2	187.4	456.3	461.2	719.7	748.5	696.9
48	891.8	56.8	55.7	55.9	51.1	62.3	45.8	38.7	41.8	39.3	416.6	463.1	725.6	745.1	172.2	195.8	471.8	511.3	725.2	756.9	717.3
49	894.6	57.8	56.5	56.8	51.8	63.1	47.0	39.4	42.4	40.5	432.5	476.0	745.2	753.5	179.4	204.6	486.2	552.4	729.7	763.1	732.8
50	896.6	58.7	57.2	57.4	52.5	63.9	47.5	39.7	42.6	40.9	449.3	488.5	757.7								

Table 35. Temperatures Measured in Assembly S-43, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	914.3	65.1	63.3	63.2	57.7	68.5	50.2	41.4	46.0	45.7	593.3	579.3	856.3	802.2	275.4	337.7	596.4	703.3	747.8	775.0	775.3
59	916.3	65.9	64.1	63.7	58.2	69.1	50.6	41.1	46.6	46.1	610.2	590.1	871.0	802.8	292.9	366.9	611.1	709.1	749.4	773.9	774.8
60	918.5	66.7	64.8	64.1	58.8	69.5	50.8	41.3	46.9	45.5	627.5	601.0	878.1	802.5	313.9	399.3	627.3	714.3	751.4	773.1	774.2
61	920.5	67.6	65.6	64.4	59.3	69.9	51.2	41.8	47.5	46.2	644.8	611.9	888.6	801.1	342.0	435.2	645.1	720.3	754.5	772.8	774.6
62	922.3	68.5	66.3	64.6	59.7	70.3	51.2	42.1	48.0	46.6	661.9	623.1	895.0	768.0	377.1	475.0	664.0	728.4	758.8	773.3	775.9
63	924.7	69.3	67.0	64.8	60.1	70.7	53.1	43.2	48.6	48.0	679.6	637.2	915.0	798.2	423.0	528.0	688.6	766.5	769.9	779.5	780.4
64	926.5	70.4	67.9	65.1	60.6	71.2	54.1	44.8	49.6	49.5	698.7	663.2	926.6	802.5	470.4	619.6	728.2	806.0	788.8	801.5	799.0
65	930.9	71.4	68.7	65.5	61.0	71.7	54.8	46.3	50.2	52.3	725.6	697.4	944.4	825.9	528.1	771.2	809.6	810.8	848.9	837.8	825.8
66	933.3	72.4	69.6	65.9	61.3	72.4	55.7	46.9	50.9	52.4	758.4	728.9	940.1	820.7	581.8	831.5	837.4	818.4	859.0	853.3	843.7
67	933.3	73.4	70.4	66.2	61.6	73.0	56.6	47.4	51.4	52.6	776.7	748.0	928.6	818.8	613.4	836.1	840.1	811.7	860.3	855.4	847.9
68	934.1	74.2	71.2	66.4	61.8	73.7	58.2	48.9	51.8	54.0	791.6	762.4	917.9	819.0	636.0	841.1	845.6	808.5	865.2	861.0	855.6
69	933.8	74.7	72.0	66.8	62.1	74.1	58.2	49.8	52.5	54.4	799.2	774.4	906.1	818.2	648.4	844.8	850.9	806.6	868.2	865.8	861.5
70	935.3	75.1	72.6	67.5	62.4	74.4	57.3	50.9	53.7	54.3	806.5	784.8	901.1	820.5	659.6	851.8	859.4	809.5	875.3	874.3	871.1
71	937.9	75.3	73.1	68.3	62.6	74.5	56.7	51.0	55.3	53.6	813.7	796.5	897.2	826.1	669.5	860.2	870.4	815.0	885.0	882.2	877.9
72	938.8	75.5	73.3	69.3	63.0	74.4	57.6	51.2	58.0	54.5	821.2	809.1	897.1	834.6	678.1	867.5	883.6	822.6	896.9	889.3	884.6
73	940.8	75.6	73.5	70.4	63.3	74.6	57.5	51.2	60.0	54.6	825.7	822.2	895.5	844.3	683.2	869.3	894.2	826.2	906.5	895.3	890.8
74	943.0	75.6	73.6	72.0	63.8	75.0	56.2	50.2	61.8	54.2	829.9	835.3	895.9	853.9	687.7	867.8	900.8	820.6	912.0	900.4	894.8
75	944.1	75.4	73.9	73.5	64.4	75.6	56.4	50.3	62.8	54.0	832.9	843.6	895.5	859.7	692.1	858.3	901.9	805.2	911.4	902.3	896.6
76	945.9	76.1	74.1	74.6	65.2	76.3	56.4	51.3	63.7	54.6	837.0	853.3	897.0	867.6	697.8	853.2	906.5	790.2	911.0	908.6	901.9
77	947.0	74.8	74.4	75.5	66.0	76.9	58.5	52.1	63.8	54.7	841.7	862.7	899.4	875.4	704.0	842.6	907.4	772.2	907.1	912.3	907.8
78	948.2	74.7	74.7	75.9	66.9	77.7	59.0	51.8	64.4	54.8	849.6	876.7	904.6	887.0	712.0	828.5	910.5	753.7	901.1	918.5	914.3
79	949.9	74.6	75.1	76.3	67.8	78.6	59.6	52.6	64.8	55.8	854.8	879.2	906.6	887.4	719.9	807.0	902.3	737.8	891.6	916.8	916.4
80	951.0	74.5	75.2	76.3	68.3	79.7	57.7	49.8	63.7	52.7	860.4	872.4	909.7	882.5	727.4	796.1	890.4	721.9	887.7	914.2	912.7
81	952.9	74.7	75.4	76.2	68.8	80.9	57.8	49.2	63.5	52.1	868.0	867.7	913.2	878.1	735.2	792.5	885.6	719.5	878.7	916.6	910.5
82	953.9	75.7	75.5	76.1	69.3	82.3	58.0	49.2	63.0	52.6	879.0	864.1	921.0	873.9	742.7	783.2	883.8	719.2	875.6	926.7	909.9
83	956.2	77.3	75.7	76.1	69.6	84.0	59.7	49.9	63.3	52.8	894.0	863.0	928.0	871.4	754.1	775.1	880.4	718.0	874.2	936.3	909.2
84	958.4	79.2	75.8	76.0	69.7	85.7	59.7	51.4	63.2	52.4	904.3	863.0	933.4	869.2	799.5	774.0	880.4	719.9	869.6	942.4	908.4
85	959.7	81.9	76.0	75.9	70.0	87.5	60.2	52.6	62.7	52.7	910.1	863.2	933.8	867.8	842.3	781.5	871.1	721.0	868.1	943.6	915.6
86	961.6	85.4	76.7	75.8	70.2	89.3	61.2	55.6	62.6	53.7	919.1	863.6	935.7	867.2	892.2	793.8	870.4	721.7	862.6	954.8	903.1
87	962.2	88.6	77.9	75.9	70.2	90.9	62.1	55.2	62.2	53.4	921.6	862.9	937.3	867.2	917.3	792.2	885.4	725.8	905.1	959.6	870.1
88	962.9	91.6	79.5	76.4	70.1	92.6	61.5	55.2	62.5	53.3	927.3	863.6	939.9	865.0	861.9	766.8	849.9	793.3	903.0	962.6	871.3
89	965.5	94.4	81.2	78.1	70.1	94.4	63.7	54.5	61.9	54.1	929.6	865.7	940.7	863.6	926.1	806.4	891.7	738.7	878.6	972.5	941.8
90	966.8	97.1	83.1	80.5	70.1	96.3	64.6	56.8	61.8	56.3	931.6	866.8	942.3	864.5	925.5	923.4	812.4	743.5	881.4	966.3	938.6
91	967.5	99.5	85.1	83.0	70.0	98.0	64.4	56.1	61.6	57.0	942.1	869.6	945.0	867.8	873.4	939.2	845.3	748.9	896.7	956.4	927.4
92	968.7	101.8	87.1	85.5	70.1	99.6	64.7	56.6	61.5	58.0	917.8	871.1	947.7	870.6	927.4	924.8	858.2	753.8	897.7	942.3	936.3
93	969.7	104.1	89.1	88.2	70.4	101.3	67.4	60.0	63.0	61.4	924.7	901.8	949.5	874.2	946.4	943.4	858.4	775.4	907.6	936.1	951.5
94	970.7	106.1	91.1	90.8	70.9	103.0	67.6	63.5	61.8	62.3	927.0	909.6	950.3	878.1	951.8	945.4	860.1	846.9	916.2	930.8	949.9
95	972.0	107.9	92.9	93.2	71.2	104.4	70.6	61.3	65.5	64.7	934.2	910.2	947.8	880.8	936.5	954.3	878.6	839.8	921.0	932.0	951.8
96	973.3	109.3	94.4	95.6	71.3	105.7	70.0	58.9	66.0	61.6	933.6	909.9	948.2	884.2	930.8	952.6	891.3	789.7	924.5	904.1	949.2
97	974.8	110.6	96.0	97.9	71.6	106.8	70.0	58.6	66.8	60.3	938.8	909.0	959.3	888.1	957.4	950.6	879.9	793.9	921.0	885.7	935.0
98	975.7	112.0	97.6	100.2	72.1	108.1	71.1	60.0	67.8	61.3	944.2	910.0	964.1	890.8	923.4	906.4	880.2	804.2	905.0	859.7	918.0
99	976.8	113.5	99.1	102.1	72.9	109.3	73.6	62.3	68.7	63.3	954.1	910.9	970.6	895.2	920.6	929.2	881.2	862.3	906.4	859.3	912.7
100	978.0	114.9	100.6	104.1	73.9	110.3	74.9	63.5	69.3	61.3	955.9	913.4	968.1	900.9	929.3	932.1	880.2	874.0	914.1	853.1	913.1
101	979.3	115.5	102.1	105.6	75.1	111.4	76.4	65.8	69.8	63.1	961.5	917.0	969.5	905.1	940.5	936.1	892.2	828.0	921.3	854.7	917.3
102	980.7	118.2	103.6	107.1	76.7	112.6	78.0	66.7	69.5	61.1	964.7	922.9	971.9	905.8	944.8	935.9	895.3	829.2	931.7	849.0	915.0
103	981.9	120.2	105.1	108.8	78.6	113.9	78.9	69.7	70.3	61.5	964.5	931.4	973.7	911.1	944.6	941.2	897.8	833.5	941.8	848.1	885.3
104	982.9	122.3	106.5	110.2	80.2	115.0	81.2	70.5	70.2	61.7	966.7	938.2	974.5	908.9	947.2	936.9	903.6	845.5	946.4	851.4	854.8
105	983.8	124.6	108.0	111.8	82.2	116.4	83.8	72.0	71.1	61.7	970.7	933.8	975.2	904.5	950.5	941.7	909.6	839.4	949.7	853.9	848.6
106	985.1	127.2	109.5	113.3	84.5	118.0	86.1	77.0	72.3	66.2	969.9	934.0	978.8	906.0	951.6	941.2	909.9	870.9	951.6	856.3	852.9
107	986.8	130																			

Table 35. Temperatures Measured in Assembly S-43, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
0	29.2	26.3	26.8	26.5	26.5	26.0	***	***	26.6	26.1	***	***	26.7	26.2	***	***	26.7	26.1
1	303.2	26.3	27.2	26.5	26.5	26.0	***	***	26.6	26.1	***	***	26.7	26.2	***	***	26.7	26.2
2	413.4	26.3	42.2	32.1	26.5	26.0	***	***	26.6	26.1	***	***	26.7	26.1	***	***	26.6	26.1
3	481.5	26.5	74.9	62.1	26.7	26.0	***	***	26.7	26.1	***	***	26.7	26.2	***	***	26.7	26.2
4	534.6	27.7	85.8	78.6	29.9	26.1	***	***	26.7	26.2	***	***	26.7	26.2	***	***	26.7	26.2
5	563.4	30.1	90.9	85.5	40.4	26.4	***	***	26.7	26.2	***	***	26.7	26.3	***	***	26.7	26.2
6	594.3	33.4	92.9	88.8	53.5	28.4	***	***	26.8	26.3	***	***	26.8	26.3	***	***	26.9	26.4
7	616.5	37.3	94.2	90.7	61.6	33.9	***	***	27.2	26.8	***	***	26.8	26.3	***	***	27.2	26.6
8	644.5	41.5	96.2	92.6	66.5	41.1	***	***	28.0	27.8	***	***	27.1	26.3	***	***	27.8	27.0
9	660.5	45.7	99.3	95.8	69.9	48.3	***	***	29.1	29.5	***	***	27.7	26.4	***	***	28.7	27.6
10	674.9	49.8	102.6	99.3	72.3	54.2	***	***	30.4	31.5	***	***	28.7	26.6	***	***	30.0	28.5
11	687.8	53.7	105.7	102.4	74.1	58.4	***	***	31.9	33.5	***	***	30.0	27.1	***	***	31.7	29.5
12	699.8	57.3	108.2	105.0	75.7	61.4	***	***	33.4	35.7	***	***	33.8	29.2	***	***	36.0	32.3
13	711.9	60.6	110.5	107.3	77.2	63.9	***	***	35.1	37.9	***	***	33.8	29.2	***	***	36.0	32.3
14	724.6	63.4	112.7	109.2	78.5	65.9	***	***	36.8	40.0	***	***	35.9	30.6	***	***	38.3	33.9
15	736.0	65.8	114.9	111.1	79.6	67.8	***	***	38.4	42.0	***	***	38.0	32.3	***	***	40.6	35.6
16	748.1	68.0	117.3	113.2	80.7	69.5	***	***	40.0	44.0	***	***	40.1	34.1	***	***	42.8	37.3
17	754.4	69.9	120.6	115.4	81.8	71.0	***	***	41.6	45.8	***	***	42.1	35.8	***	***	45.0	38.9
18	781.8	71.6	125.3	118.5	83.1	72.4	***	***	43.2	47.6	***	***	44.1	37.6	***	***	46.9	40.6
19	770.6	73.0	134.3	121.9	83.9	73.9	***	***	44.8	49.4	***	***	46.1	39.3	***	***	48.8	42.1
20	778.9	73.9	163.5	131.2	83.4	74.9	***	***	46.3	51.0	***	***	48.1	41.0	***	***	50.4	43.7
21	786.3	74.3	200.6	162.2	81.5	74.9	***	***	47.9	52.5	***	***	49.8	42.5	***	***	51.8	45.2
22	792.5	75.6	243.7	200.3	81.5	74.7	***	***	49.3	54.1	***	***	51.3	43.9	***	***	52.9	46.3
23	798.5	78.1	283.7	247.4	82.4	76.5	***	***	50.7	55.5	***	***	52.4	45.2	***	***	54.3	47.5
24	804.7	80.1	326.2	285.0	82.9	78.6	***	***	52.1	56.4	***	***	53.5	46.4	***	***	56.0	49.7
25	810.8	82.0	367.4	326.1	83.5	79.1	***	***	53.6	57.2	***	***	54.6	47.7	***	***	57.8	50.1
26	815.2	84.0	406.1	363.7	84.2	79.4	***	***	55.0	58.1	***	***	55.7	49.1	***	***	59.7	51.6
27	819.7	86.0	444.7	401.0	85.2	79.9	***	***	56.5	59.0	***	***	56.7	50.4	***	***	61.7	52.9
28	824.0	88.2	479.9	437.5	86.7	80.5	***	***	57.9	60.0	***	***	57.7	51.7	***	***	63.8	54.3
29	829.4	90.7	511.2	469.5	89.0	81.2	***	***	59.3	61.1	***	***	58.7	52.8	***	***	65.9	56.0
30	834.0	93.5	539.2	497.1	92.8	82.0	***	***	60.7	62.0	***	***	59.8	53.8	***	***	68.2	57.9
31	837.6	96.3	566.0	521.9	98.4	82.8	***	***	62.0	63.0	***	***	60.9	54.9	***	***	70.2	60.2
32	841.7	99.3	588.0	543.1	106.1	83.7	***	***	63.2	64.0	***	***	62.1	55.8	***	***	71.9	62.9
33	845.4	102.5	605.1	580.8	115.9	84.8	***	***	64.3	64.9	***	***	63.2	56.7	***	***	73.1	65.7
34	850.1	106.5	618.6	575.7	127.2	85.8	***	***	65.4	66.9	***	***	64.4	57.5	***	***	74.1	68.4
35	853.3	111.0	629.0	588.4	139.6	87.2	***	***	66.4	66.9	***	***	65.6	58.1	***	***	74.9	70.6
36	856.7	116.0	638.2	600.0	152.4	89.0	***	***	67.4	68.0	***	***	66.8	58.8	***	***	75.5	72.4
37	860.0	121.3	648.7	611.0	165.6	91.3	***	***	68.3	68.8	***	***	68.1	59.3	***	***	76.1	73.9
38	864.0	126.9	655.1	621.8	178.7	94.2	***	***	69.2	69.8	***	***	69.2	59.7	***	***	76.5	75.1
39	866.0	132.7	663.3	633.1	192.4	98.3	***	***	70.0	70.8	***	***	70.2	60.1	***	***	77.0	76.0
40	869.4	138.6	671.0	644.8	206.9	104.0	***	***	70.9	71.8	***	***	71.1	60.5	***	***	77.3	76.6
41	872.5	144.6	678.4	657.3	222.0	112.8	***	***	71.7	72.7	***	***	71.9	60.8	***	***	77.7	77.2
42	875.6	150.7	684.5	671.8	237.7	125.8	***	***	72.5	73.8	***	***	72.6	61.1	***	***	78.0	78.0
43	878.4	158.7	689.9	688.1	253.3	144.8	***	***	73.3	75.3	***	***	73.2	61.5	***	***	78.4	78.8
44	881.4	163.1	694.8	707.0	268.9	171.4	***	***	74.2	76.9	***	***	73.6	61.9	***	***	78.9	79.7
45	884.2	169.5	698.9	728.7	284.1	206.1	***	***	75.2	78.5	***	***	74.2	62.4	***	***	79.6	80.6
46	887.5	176.2	702.5	749.7	300.2	248.0	***	***	76.3	80.1	***	***	74.5	62.9	***	***	80.5	81.5
47	890.1	184.3	705.7	764.4	316.4	295.5	***	***	77.7	81.5	***	***	74.7	63.5	***	***	81.6	82.4
48	891.8	193.4	708.8	776.8	332.5	344.8	***	***	79.2	82.9	***	***	75.1	64.0	***	***	82.6	83.3
49	894.6	203.5	712.0	788.2	349.2	393.4	***	***	80.6	84.1	***	***	75.5	64.6	***	***	83.6	84.2
50	896.6	214.6	715.6	799.0	366.9	439.9	***	***	81.9	85.3	***	***	76.0	65.3	***	***	84.7	85.3
51	898.6	227.1	719.6	808.9	386.0	483.4	***	***	82.9	86.3	***	***	76.4	66.0	***	***	85.9	86.4
52	901.5	241.3	722.5	817.1	405.8	522.3	***	***	84.0	87.3	***	***	76.9	66.6	***	***	87.0	87.4
53	902.8	258.1	701.0	824.1	427.2	586.2	***	***	85.1	88.2	***	***	77.5	67.3	***	***	88.1	88.4
54	905.2	278.4	703.0	831.1	450.4	585.2	***	***	86.0	88.9	***	***	78.2	68.1	***	***	89.2	89.3
55	908.2	303.6	705.8	837.7	476.1	609.5	***	***	86.9	89.6	***	***	78.8	68.8	***	***	90.2	90.0
56	909.3	333.9	703.8	844.5	503.4	629.7	***	***	87.7	90.3	***	***	79.4	69.7	***	***	91.1	90.7
57	912.7	369.2	739.1	850.4	532.9	646.2	***	***	88.4	90.9	***	***	80.1	70.5	***	***	91.9	91.4

Table 35. Temperatures Measured in Assembly S-43, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																		
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
58	914.3	407.7	741.6	853.3	563.2	659.8	***	***	89.0	91.5	***	***	80.7	71.3	***	***	92.7	91.9		
59	916.3	448.3	744.7	856.6	595.7	671.3	***	***	89.7	92.0	***	***	81.3	72.3	***	***	93.6	92.4		
60	918.5	499.3	746.1	856.4	631.1	680.9	***	***	90.4	92.6	***	***	81.9	73.0	***	***	94.4	92.9		
61	920.5	531.3	759.4	856.0	674.3	689.5	***	***	91.0	93.2	***	***	82.6	73.8	***	***	95.1	93.3		
62	922.3	573.1	788.7	857.8	715.1	697.0	***	***	91.6	93.7	***	***	83.3	74.4	***	***	96.0	93.8		
63	924.7	622.9	817.6	850.6	763.8	707.5	***	***	92.3	94.2	***	***	83.8	74.9	***	***	96.7	94.2		
64	926.5	678.4	847.3	830.5	805.6	732.9	***	***	92.9	94.9	***	***	84.4	75.2	***	***	97.7	94.8		
65	930.9	758.8	884.2	854.3	852.1	765.5	***	***	93.6	95.4	***	***	85.8	75.5	***	***	98.5	95.3		
66	933.3	813.2	880.2	835.3	868.9	781.5	***	***	94.3	95.7	***	***	87.3	75.7	***	***	99.4	95.6		
67	933.3	826.6	874.8	818.5	868.2	786.9	***	***	94.9	96.3	***	***	88.3	75.9	***	***	100.6	96.4		
68	934.1	840.2	872.6	808.5	865.2	790.8	***	***	95.6	97.1	***	***	88.9	76.6	***	***	102.1	97.5		
69	933.8	846.2	868.3	805.5	857.6	795.2	***	***	96.1	97.9	***	***	89.4	78.1	***	***	103.8	98.8		
70	935.3	852.3	868.0	805.4	852.9	800.5	***	***	96.7	98.8	***	***	90.0	80.3	***	***	105.8	100.1		
71	937.9	854.8	869.3	810.2	848.3	808.8	***	***	97.2	99.5	***	***	90.9	83.0	***	***	108.2	101.7		
72	938.8	861.0	872.4	818.8	843.5	819.0	***	***	98.2	100.2	***	***	92.8	85.5	***	***	110.8	103.5		
73	940.8	863.5	872.1	829.9	836.2	830.4	***	***	99.7	101.0	***	***	96.3	87.5	***	***	113.8	105.5		
74	943.0	864.6	873.4	841.5	829.7	841.4	***	***	101.1	102.1	***	***	98.0	89.1	***	***	115.3	107.7		
75	944.1	865.2	872.6	848.3	821.7	847.4	***	***	102.5	103.2	***	***	99.7	90.2	***	***	121.3	110.2		
76	945.9	869.6	873.9	856.8	816.1	855.1	***	***	103.8	104.4	***	***	101.6	91.3	***	***	127.4	113.3		
77	947.0	872.9	875.4	864.4	811.6	862.2	***	***	105.0	105.6	***	***	103.8	92.5	***	***	136.7	117.6		
78	948.2	876.6	878.8	875.2	809.1	871.2	***	***	106.2	106.7	***	***	106.2	97.7	***	***	138.2	118.8		
79	949.9	879.6	880.1	878.2	805.7	870.4	***	***	107.6	107.8	***	***	109.7	94.4	***	***	173.6	131.2		
80	951.0	879.3	881.2	877.3	802.7	866.0	***	***	109.0	108.9	***	***	112.9	95.0	***	***	190.1	139.1		
81	952.9	881.3	883.2	875.1	801.5	861.5	***	***	110.6	110.1	***	***	116.4	95.9	***	***	206.7	152.4		
82	953.9	880.8	885.9	871.7	799.0	858.3	***	***	112.5	111.0	***	***	120.7	96.6	***	***	224.7	174.3		
83	956.2	883.6	888.7	871.2	799.6	858.6	***	***	114.9	112.0	***	***	125.7	97.7	***	***	240.0	193.3		
84	958.4	889.9	891.2	871.0	797.0	859.0	***	***	116.2	113.1	***	***	130.8	98.8	***	***	254.7	211.9		
85	959.7	890.5	893.2	871.3	798.6	858.4	***	***	122.3	114.1	***	***	136.6	100.0	***	***	269.5	233.2		
86	961.5	901.4	895.1	874.3	799.4	855.3	***	***	127.4	115.5	***	***	143.4	101.9	***	***	284.1	253.4		
87	962.2	907.9	896.9	877.4	802.0	848.7	***	***	135.4	116.8	***	***	152.0	103.4	***	***	299.1	271.3		
88	962.9	901.6	897.7	880.2	800.8	841.0	***	***	147.3	118.1	***	***	164.0	105.0	***	***	311.9	287.4		
89	965.5	902.1	902.2	870.7	803.1	827.6	***	***	160.8	119.6	***	***	181.6	106.2	***	***	326.6	302.7		
90	966.8	924.7	905.7	878.8	805.3	824.6	***	***	174.2	121.3	***	***	201.8	107.9	***	***	341.9	318.7		
91	967.5	929.2	909.3	881.1	805.0	819.3	***	***	187.1	123.4	***	***	221.7	109.9	***	***	356.3	335.6		
92	968.7	899.6	912.1	880.3	808.2	820.3	***	***	200.0	126.3	***	***	240.4	112.5	***	***	369.8	352.2		
93	969.7	896.9	917.2	884.4	813.1	824.7	***	***	214.3	130.3	***	***	257.3	115.5	***	***	384.7	366.9		
94	970.7	895.9	922.3	887.7	821.4	805.4	***	***	228.3	134.7	***	***	274.4	119.4	***	***	400.5	380.6		
95	972.0	900.0	927.1	888.8	827.6	783.3	***	***	241.6	138.6	***	***	291.9	126.5	***	***	415.9	395.5		
96	973.3	909.8	829.5	885.1	833.7	787.9	***	***	254.2	143.0	***	***	309.2	138.2	***	***	431.0	410.4		
97	974.6	909.6	931.9	886.3	833.8	742.7	***	***	265.6	150.4	***	***	325.3	160.7	***	***	444.7	424.5		
98	975.7	911.1	944.7	882.4	906.8	739.3	***	***	276.3	159.4	***	***	340.3	169.0	***	***	456.9	437.8		
99	976.8	908.9	949.4	892.1	918.0	908.4	***	***	287.6	171.1	***	***	352.8	211.3	***	***	468.2	450.5		
100	978.0	898.1	947.8	897.7	919.9	913.1	***	***	300.0	182.7	***	***	364.0	227.9	***	***	479.3	463.5		
101	979.3	902.7	938.7	902.2	928.9	911.7	***	***	311.7	192.5	***	***	373.8	242.2	***	***	490.3	475.6		
102	980.7	901.2	934.8	900.0	928.4	918.0	***	***	321.8	201.8	***	***	383.4	256.1	***	***	501.6	487.1		
103	981.9	893.4	941.3	888.8	928.2	921.8	***	***	331.3	212.0	***	***	393.5	269.3	***	***	512.9	498.3		
104	982.9	895.5	938.7	889.7	912.7	929.3	***	***	341.0	223.8	***	***	403.6	281.0	***	***	524.1	509.0		
105	983.8	897.4	904.5	892.2	898.8	929.5	***	***	349.6	235.2	***	***	414.0	292.4	***	***	535.2	519.4		
106	985.1	901.9	919.9	893.9	859.2	925.6	***	***	356.9	245.5	***	***	424.8	303.4	***	***	546.3	529.2		
107	986.8	931.3	969.7	891.2	869.3	915.4	***	***	363.8	255.5	***	***	435.3	314.9	***	***	557.2	538.4		
108	988.3	929.3	960.8	892.6	936.7	913.5	***	***	371.9	265.3	***	***	445.8	327.8	***	***	568.2	547.2		
109	989.0	933.7	997.6	876.0	943.1	916.1	***	***	381.0	274.8	***	***	456.4	342.1	***	***	579.0	555.6		
110	989.4	934.5	977.0	856.8	912.3	895.0	***	***	389.9	283.9	***	***	467.1	355.7	***	***	589.8	563.7		
111	991.3	933.7	970.1	817.6	920.0	809.7	***	***	398.6	292.3	***	***	477.5	369.4	***	***	600.6	571.9		
112	993.7	933.2	970.8	819.0	926.7	795.2	***	***	406.6	300.2	***	***	487.2	382.5	***	***	610.9	579.9		
113	994.0	909.7	956.9	847.3	943.1	847.9	***	***	414.4	309.8	***	***	496.2	394.5	***	***	621.2	588.0		
114	995.1	908.0	965.5	894.5	944.8	892.7	***	***	421.8	319.1	***	***	505.0	406.0	***	***	631.6	586.1		
115	995.7	906.3	958.2	890.6	947.3	896.5	***	***	429.3	328.3	***	***	513.8	417.0	***	***	642.5	604.2		

Table 36. Average Temperatures Measured in Assembly S-43, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/Sstd. (Exp.) Av(12,13,18,19)	MH Sstd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/Sstd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(26,29,32,33,34,37)	UnExp. Av(1,2,3,4,5)
0	29.2	26.7	26.6	26.4	26.2	26.5	26.4	26.3
1	303.2	26.9	27.2	26.4	26.2	26.5	26.4	26.3
2	419.4	37.1	41.2	26.7	26.2	26.8	26.4	26.3
3	481.6	68.5	80.0	29.8	26.4	27.6	26.4	26.3
4	534.6	82.2	92.6	41.2	28.0	31.0	26.4	26.3
5	563.4	88.2	94.7	60.8	33.4	37.6	26.5	26.4
6	594.3	90.8	95.7	72.1	41.0	44.9	26.6	26.4
7	616.5	92.4	96.4	77.6	47.7	50.4	26.8	26.4
8	644.5	94.4	97.1	80.3	53.8	55.0	27.3	26.4
9	660.5	97.6	98.0	82.3	59.1	59.2	28.2	26.4
10	674.9	101.0	99.6	83.9	63.3	62.9	29.3	26.5
11	687.8	104.0	102.0	85.1	66.2	66.1	30.6	26.5
12	699.8	106.6	105.5	86.1	68.6	68.8	34.6	26.7
13	711.9	108.9	111.6	86.9	70.5	71.2	34.0	26.9
14	724.6	111.0	118.0	87.6	72.2	73.2	35.9	27.2
15	736.0	113.0	123.6	88.4	73.7	74.9	37.8	27.6
16	746.1	115.2	129.4	89.2	75.1	76.5	38.7	28.0
17	754.4	118.0	135.7	90.3	76.4	77.9	41.6	28.5
18	761.8	121.9	144.5	91.4	77.8	78.0	43.3	29.1
19	770.6	128.1	156.4	92.5	78.9	80.0	45.1	29.9
20	778.9	147.3	***	***	79.1	81.7	46.8	30.7
21	786.3	181.4	199.3	96.0	78.2	80.2	48.3	31.7
22	792.5	220.0	226.3	99.7	78.1	82.8	49.6	32.7
23	798.5	265.5	283.0	104.2	79.5	85.7	50.9	33.8
24	804.7	305.6	279.6	110.2	80.7	88.5	52.2	34.9
25	810.8	345.8	309.2	117.6	81.3	91.8	53.5	36.1
26	815.2	384.9	343.1	125.7	81.8	95.7	54.8	37.2
27	819.7	422.8	376.6	134.3	82.5	100.0	56.2	38.3
28	824.0	458.7	406.7	143.6	83.6	104.8	57.6	39.4
29	829.4	490.3	433.4	153.4	85.1	108.6	59.0	40.6
30	834.0	518.1	460.9	164.0	87.4	114.9	60.4	41.6
31	837.6	544.0	486.6	175.5	90.6	120.5	61.9	42.6
32	841.7	565.5	509.9	187.8	94.9	126.5	63.3	43.6
33	845.4	582.9	531.1	200.3	100.3	132.8	64.7	44.5
34	850.1	597.1	551.3	212.9	106.5	139.6	66.0	45.5
35	853.3	608.7	569.2	225.6	113.4	148.8	67.1	46.3
36	856.7	619.1	586.0	238.0	120.7	154.6	68.2	47.2
37	860.0	628.9	601.6	250.6	128.5	169.2	69.1	48.1
38	864.0	638.4	616.3	263.2	136.5	172.6	69.9	48.9
39	866.0	648.2	629.9	276.2	145.9	183.2	70.7	49.8
40	869.4	657.9	643.1	290.0	155.5	195.4	71.4	50.6
41	872.5	667.8	656.2	304.9	167.4	209.5	72.0	51.3
42	875.6	678.2	668.8	322.4	181.8	225.6	72.7	52.1
43	878.4	689.0	680.8	342.5	199.1	243.2	73.4	52.6
44	881.4	700.9	692.8	365.2	220.1	261.6	74.2	53.5
45	884.2	713.8	704.5	390.7	245.1	278.6	75.1	54.2
46	887.5	726.1	716.8	417.0	274.1	295.4	76.0	54.8
47	890.1	735.1	727.8	442.3	305.9	308.4	76.9	55.6
48	891.3	742.8	738.2	465.7	338.6	319.7	77.9	56.4
49	894.6	750.1	747.9	486.8	371.3	330.1	78.8	57.2
50	896.6	757.3	755.0	505.7	403.4	339.9	79.7	57.9
51	898.6	764.2	762.7	523.0	434.7	349.8	80.7	58.7
52	901.5	769.8	768.2	538.9	464.0	359.9	81.6	59.5
53	902.8	762.6	773.6	563.7	491.7	370.7	82.4	60.2
54	905.2	767.1	776.1	567.5	517.8	382.4	83.9	60.8
55	908.2	771.7	782.3	580.7	542.8	395.9	84.1	61.5
56	909.3	774.1	787.2	593.4	566.5	411.5	84.8	62.2
57	912.7	794.7	791.2	606.9	589.5	428.3	85.5	62.9

Table 36. Average Temperatures Measured in Assembly S-43, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/Cav. (Exp.) Av(12,13,14,15)	Mld SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,30,33,34,37)	UnExp. Av(1,2,3,4,5)
58	914.3	797.4	795.3	618.1	611.5	449.0	86.2	63.5
59	915.3	800.6	799.3	630.1	633.5	470.7	86.9	64.2
60	918.6	801.3	801.3	642.5	656.0	494.2	87.5	64.8
61	920.5	807.7	804.3	655.5	681.9	520.8	88.2	65.4
62	922.3	823.3	806.3	669.4	706.1	550.3	88.8	65.9
63	924.7	834.1	815.6	693.0	735.7	588.6	89.4	66.4
64	926.5	838.9	829.4	724.0	769.2	641.8	90.0	67.0
65	930.8	869.3	863.8	760.9	808.8	721.0	90.7	67.6
66	933.9	857.8	866.3	786.8	825.2	767.6	91.3	68.3
67	935.4	846.6	865.8	794.1	827.5	781.0	92.1	68.9
68	934.1	840.5	865.8	802.0	828.0	793.2	93.0	69.5
69	935.6	836.9	864.6	807.8	826.4	800.2	94.0	69.9
70	935.3	836.7	867.8	815.0	826.7	808.7	95.3	70.4
71	937.9	839.8	872.6	823.9	828.5	815.6	96.7	70.8
72	938.8	845.6	879.5	834.1	831.2	822.8	98.5	71.1
73	940.8	851.0	885.4	842.1	833.3	826.7	100.7	71.5
74	942.0	857.4	890.5	846.7	835.6	828.7	102.2	72.0
75	944.1	860.5	892.2	845.9	834.6	828.1	104.5	72.6
76	945.9	865.3	896.1	846.7	835.6	830.6	107.0	73.1
77	947.0	869.9	899.5	846.0	836.9	831.8	110.2	73.5
78	948.2	877.0	902.8	847.6	840.2	832.3	106.5	74.0
79	949.2	878.1	900.6	843.5	838.0	830.8	120.7	74.5
80	951.0	879.3	898.5	836.3	834.4	828.9	125.9	74.8
81	952.9	879.1	896.6	835.2	831.5	829.9	132.0	75.2
82	953.9	878.8	896.3	836.5	828.6	829.1	140.0	75.8
83	956.2	879.9	902.5	839.1	829.1	830.5	147.3	76.5
84	958.4	881.1	903.7	841.9	828.0	842.9	154.6	77.3
85	959.7	882.3	903.3	841.3	828.5	857.5	162.6	78.3
86	961.5	884.7	905.0	843.7	827.3	872.6	170.9	79.5
87	962.2	887.1	917.3	843.9	825.3	871.9	179.5	80.7
88	962.8	889.0	917.6	842.8	820.9	850.4	188.9	82.1
89	965.5	886.5	913.9	841.7	815.3	864.1	199.6	83.6
90	966.8	892.2	913.6	838.6	814.9	928.1	211.0	85.4
91	967.5	895.2	916.4	846.5	812.1	917.3	222.3	87.1
92	968.7	896.2	917.1	850.2	814.3	930.0	233.5	88.6
93	969.7	900.8	916.9	855.1	818.9	934.6	244.8	90.6
94	970.7	905.0	919.8	855.9	813.4	935.8	256.3	92.4
95	972.0	908.0	920.4	880.0	805.5	935.7	268.3	93.9
96	973.3	907.3	915.2	881.1	810.8	936.8	281.0	95.3
97	974.6	909.1	913.5	880.4	788.3	938.2	295.2	96.6
98	976.7	913.5	904.9	884.6	823.0	914.7	309.9	98.0
99	978.8	920.7	907.9	902.1	913.2	917.9	323.6	99.4
100	979.0	922.7	909.0	905.9	916.5	918.1	336.2	100.7
101	979.3	920.5	912.7	899.7	920.3	924.2	347.7	102.1
102	980.7	917.4	914.6	903.0	923.2	924.2	358.6	103.7
103	981.9	915.0	918.7	906.8	925.0	908.6	369.5	105.3
104	982.8	914.2	920.3	913.5	921.0	908.6	380.4	106.9
105	983.8	898.3	920.8	919.4	914.2	909.6	390.9	108.6
106	985.1	906.9	923.2	921.2	892.4	911.9	401.0	110.5
107	986.8	930.4	927.5	918.8	892.4	918.7	410.9	112.7
108	988.3	926.7	928.9	919.7	925.1	918.3	421.0	115.1
109	989.2	936.8	946.5	928.1	929.6	913.3	431.5	117.9
110	989.4	916.0	930.8	941.2	903.7	914.5	441.7	121.3
111	991.3	893.8	932.6	942.3	864.9	912.2	451.7	125.7
112	993.7	894.9	949.7	946.0	861.0	913.0	461.2	132.8
113	994.0	902.1	951.7	946.2	895.5	908.2	470.7	143.2
114	995.1	930.0	950.2	951.8	918.7	906.5	478.9	156.6
115	995.7	924.4	936.0	957.6	921.9	906.9	489.2	172.9

Table 37. Temperatures Measured in Assembly S-44, Steel Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	45.0	21.9	22.7	22.0	22.0	23.4	22.2	21.5	21.6	21.5	31.7	30.2	34.6	34.2	29.7	26.7	31.0	30.7	35.1	34.6	28.2
1	305.3	21.9	22.7	22.1	22.0	23.4	22.1	21.5	21.6	21.4	31.6	30.2	34.6	34.2	29.7	26.7	30.9	30.7	36.1	37.0	28.2
2	406.3	21.9	22.7	22.1	22.0	23.4	22.3	21.6	21.7	21.6	32.2	30.5	47.2	40.5	31.3	26.8	32.0	31.8	62.1	63.8	28.3
3	486.0	21.9	22.7	22.1	22.1	23.5	22.1	21.6	21.7	21.5	44.2	34.3	96.3	90.2	36.7	27.0	40.6	49.4	84.1	82.7	29.6
4	524.9	21.9	22.8	22.1	22.1	23.5	22.1	21.4	21.6	21.4	90.2	56.9	98.2	98.7	47.9	29.7	60.4	70.2	90.9	92.0	35.7
5	568.5	22.0	22.8	22.1	22.1	23.5	22.2	21.6	21.7	21.6	92.8	73.4	97.9	98.1	61.8	38.7	72.6	74.7	92.4	91.9	45.7
6	590.6	22.0	22.8	22.1	22.1	23.5	22.3	21.5	21.7	21.5	91.5	75.4	97.7	97.8	68.4	45.5	76.9	76.1	92.6	91.5	53.9
7	615.9	22.0	22.8	22.1	22.2	23.6	22.3	21.6	21.7	21.6	89.6	74.7	97.3	97.3	72.1	49.1	78.8	77.2	93.1	92.0	59.2
8	644.3	22.0	22.9	22.2	22.3	23.7	22.5	21.8	21.9	21.8	89.0	72.9	97.3	96.7	74.3	50.5	79.7	77.4	93.4	92.6	62.6
9	662.4	22.1	23.0	22.3	22.5	24.0	22.8	22.0	22.0	21.8	88.5	72.7	97.3	96.4	76.1	52.1	80.3	77.9	93.8	93.6	64.8
10	678.8	22.4	23.1	22.5	22.8	24.3	22.7	22.0	22.2	21.9	88.4	72.9	97.6	96.4	77.8	53.2	81.2	79.2	94.9	96.4	66.6
11	689.4	22.7	23.3	22.8	23.3	24.9	23.0	22.3	22.5	22.0	88.7	73.5	99.7	97.2	79.7	54.6	82.3	80.6	99.1	100.3	68.5
12	700.2	23.1	23.6	23.2	23.9	25.7	23.9	23.0	23.1	22.9	89.3	74.7	105.9	99.7	81.8	56.5	83.4	81.9	102.6	104.1	70.3
13	712.2	23.6	24.0	23.6	24.6	26.6	24.5	23.5	23.6	23.4	90.3	75.9	113.5	104.1	83.6	57.6	84.4	82.8	109.0	110.7	71.8
14	723.8	24.3	24.6	24.2	25.5	27.7	24.9	23.9	24.2	23.7	90.8	77.5	124.0	112.1	85.4	59.8	85.7	83.9	116.4	115.7	73.4
15	735.8	25.1	25.2	24.8	26.4	28.9	25.2	24.4	24.8	24.0	91.4	79.4	135.0	123.4	87.0	61.6	86.7	85.1	121.5	119.9	74.9
16	744.9	26.0	26.0	25.6	27.4	30.3	26.0	25.0	25.5	24.4	92.4	82.1	145.0	133.2	88.5	63.6	87.9	86.4	125.4	123.5	76.2
17	753.5	27.0	26.8	26.3	28.5	31.9	26.2	25.1	26.1	24.7	94.3	84.8	157.8	142.1	90.1	65.4	88.7	87.2	129.5	127.1	77.3
18	762.0	28.1	27.7	27.2	29.7	33.5	27.4	25.7	26.8	25.3	96.4	87.0	176.0	153.2	91.8	67.2	90.0	88.4	135.8	133.1	78.3
19	770.6	29.3	28.8	28.1	31.0	35.3	28.6	26.7	27.8	26.2	105.4	90.1	196.2	171.8	94.1	68.6	93.7	88.0	146.7	143.1	78.7
20	778.8	30.5	29.9	29.1	32.2	37.2	29.2	27.2	28.6	26.6	117.2	92.8	220.3	196.7	97.7	69.2	98.1	91.9	177.3	159.6	77.9
21	786.1	31.9	31.1	30.1	33.7	38.9	30.0	28.2	29.5	26.9	129.8	95.8	244.6	224.9	104.0	69.3	108.8	106.8	231.7	221.7	77.7
22	792.3	33.3	32.4	31.2	35.1	40.7	30.7	28.4	30.4	28.1	146.2	101.0	270.0	257.0	113.1	71.2	127.5	138.6	274.9	286.0	80.0
23	798.5	34.8	33.8	32.4	36.5	42.5	30.6	28.8	31.2	27.4	167.0	122.9	297.5	295.0	124.7	73.8	148.6	176.0	313.2	334.2	82.0
24	804.4	36.1	35.0	33.5	37.7	44.0	31.4	29.5	32.2	28.4	191.2	156.6	325.5	331.3	137.7	77.3	169.7	213.7	349.7	374.9	85.6
25	810.4	37.4	36.4	34.7	38.9	45.4	31.8	29.7	32.8	28.7	211.7	183.7	349.2	364.0	151.2	82.9	189.7	248.9	378.2	402.7	93.2
26	815.1	38.6	37.7	35.8	40.1	46.9	32.3	29.8	33.6	28.8	230.6	209.6	365.6	395.4	164.0	90.7	208.5	282.3	404.1	435.2	102.5
27	819.1	39.8	36.9	36.9	41.1	48.3	32.1	30.3	34.0	29.6	248.7	234.2	380.0	421.6	177.5	99.6	227.8	313.5	429.6	468.4	113.1
28	823.1	40.8	40.1	37.9	42.2	49.6	33.1	30.5	34.4	29.6	265.5	257.8	391.7	444.4	190.3	109.2	248.9	341.8	454.2	495.4	125.2
29	828.5	41.9	41.2	39.1	43.3	50.7	33.2	31.0	34.9	29.5	280.7	280.3	402.4	467.6	200.9	119.7	269.3	368.1	474.8	518.7	137.1
30	833.7	43.0	42.3	40.2	44.3	52.0	33.7	31.3	36.0	30.3	294.9	301.8	410.9	485.4	210.9	130.3	287.8	392.2	493.5	539.1	148.9
31	837.7	44.2	43.4	41.6	45.6	53.1	35.5	32.0	36.7	30.9	307.6	320.9	417.6	501.6	220.1	140.7	304.5	412.9	510.7	557.3	159.9
32	841.5	45.5	44.5	43.0	46.8	54.4	36.8	32.8	37.8	31.2	319.2	338.2	423.9	516.5	229.5	150.5	319.6	432.2	526.9	573.5	170.0
33	845.7	47.0	45.5	44.6	48.2	55.7	37.2	33.3	38.5	31.6	329.7	354.4	430.0	530.1	238.8	159.0	333.4	449.5	541.8	587.8	179.1
34	849.1	48.5	46.7	46.3	49.7	57.0	38.0	33.7	39.8	32.5	339.2	369.6	436.9	542.9	248.0	186.1	345.4	464.7	555.2	600.2	187.4
35	853.0	50.1	47.7	48.0	51.1	58.3	36.9	33.4	40.0	32.1	347.9	382.6	444.1	554.9	256.8	172.6	356.4	478.1	567.5	611.2	195.2
36	856.9	51.6	48.8	49.8	52.6	59.5	38.6	34.8	41.3	32.9	356.3	394.2	452.3	566.3	265.9	179.3	366.9	490.0	579.5	620.9	202.8
37	860.0	52.9	49.9	51.4	54.1	60.6	39.3	35.0	42.2	33.4	364.2	404.9	460.2	577.3	274.6	186.7	376.8	500.7	591.1	630.0	210.0
38	864.4	54.4	51.0	53.2	55.5	61.8	38.8	36.1	43.3	34.2	372.1	415.2	486.3	587.6	281.9	194.3	386.4	510.4	601.5	637.3	217.0
39	866.3	55.7	52.2	54.9	56.9	62.8	39.5	36.2	43.9	34.3	380.0	425.0	475.7	596.9	289.2	201.4	395.5	518.8	611.2	643.9	223.5
40	868.9	57.2	53.4	56.9	58.4	63.6	39.8	36.8	45.5	35.0	387.4	434.8	483.1	605.7	296.5	208.0	404.3	526.6	620.2	649.9	229.5
41	871.7	58.6	54.8	58.8	59.8	64.4	40.3	37.9	46.3	34.9	395.3	445.2	493.2	618.1	303.7	214.9	412.2	533.8	628.3	655.0	235.3
42	875.0	59.9	56.1	60.7	61.0	65.1	40.5	38.5	47.0	34.9	404.6	456.7	504.2	630.2	311.2	222.3	420.7	540.3	636.1	659.3	241.0
43	878.0	61.0	57.5	62.7	62.2	65.8	41.0	39.4	48.2	37.1	414.1	468.8	514.4	641.0	318.8	230.7	429.0	546.4	642.8	663.2	246.7
44	881.4	62.0	58.9	64.2	63.2	66.3	41.5	39.9	48.7	36.1	424.7	481.2	523.6	650.9	326.4	240.6	437.1	552.1	649.0	666.3	252.3
45	884.3	62.8	60.2	65.7	64.2	66.9	41.1	39.0	48.6	36.9	434.9	494.6	531.9	660.7	333.8	252.9	444.6	557.7	654.2	669.1	257.8
46	887.6	63.6	61.5	67.0	65.0	67.5	41.4	40.2	49.9	37.3	444.7	508.5	539.6	670.5	340.9	267.4	452.3	563.3	659.0	672.0	263.2
47	889.3	64.2	62.6	68.1	65.8	67.9	42.4	40.7	50.2	39.4	454.2	523.9	548.1	681.7	348.1	284.3	460.3	569.0	664.1	675.1	268.6
48	891.0	64.8	63.7	68.9	66.4	68.4	42.1	40.9	50.6	38.3	463.5	540.1	557.7	691.5	355.4	303.1	469.4	574.7	668.4	677.5	274.0
49	894.6	65.3	64.7	69.7	67.0	68.9	44.8	42.7	52.1	40.5	472.3	555.1	565.4	699.3	363.1	322.5	481.6	580.6	672.6	680.3	279.6
50	896.3	65.9	65.5	70.4	67.6	69.4	44.7	43.3</td													

Table 37. Temperatures Measured in Assembly S-44, Steel Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	914.4	69.8	68.5	72.6	69.4	69.7	43.8	42.9	54.2	40.1	***	***	***	***	***	***	***	***	***	357.7	
59	916.1	70.3	68.9	72.7	69.4	69.6	42.5	43.0	54.5	40.6	511.1	631.0	584.4	721.8	418.6	392.2	598.3	634.8	687.6	683.7	364.7
60	918.3	70.8	69.3	72.8	69.4	69.5	44.1	43.5	55.2	41.3	516.3	630.2	587.1	718.7	424.1	394.0	603.1	637.6	685.5	682.7	371.1
61	920.6	71.2	69.7	73.1	69.5	69.5	42.9	43.1	54.4	40.4	521.3	629.7	589.8	715.2	429.4	397.7	607.0	639.5	683.5	681.3	377.2
62	922.2	71.6	70.1	73.2	69.6	69.5	43.7	43.1	55.2	40.4	526.2	630.6	592.5	717.3	434.9	403.2	610.1	640.9	681.3	680.3	382.8
63	924.6	71.8	70.5	73.2	69.7	69.5	43.7	44.1	55.6	40.3	531.1	632.4	595.4	714.7	440.4	408.7	612.6	642.0	679.5	679.4	387.9
64	925.8	72.0	70.7	73.3	69.8	69.5	43.9	43.5	56.3	41.5	536.2	633.3	598.7	695.4	446.0	414.1	614.9	643.0	677.7	678.6	392.9
65	927.8	72.2	71.0	73.3	69.8	69.5	43.9	43.9	55.6	41.0	541.2	634.4	602.0	695.1	451.5	420.5	616.5	643.5	676.1	677.5	398.0
66	929.1	72.4	71.3	73.2	69.8	69.7	43.3	45.1	55.8	40.4	545.7	637.2	604.7	695.3	456.9	426.7	617.7	644.3	675.1	676.7	403.3
67	931.5	72.4	71.4	73.2	69.9	69.8	43.9	44.6	55.7	41.0	550.9	639.1	608.1	693.3	462.4	432.5	618.2	644.4	674.0	676.0	408.6
68	933.6	72.6	71.6	73.2	70.1	70.1	45.1	44.3	55.5	41.6	555.9	641.3	610.7	692.9	467.3	438.6	618.6	644.6	673.3	675.5	414.5
69	934.4	72.6	71.8	73.1	70.3	70.4	44.1	45.0	56.4	41.7	561.2	643.8	613.2	691.6	472.3	445.1	619.2	645.0	673.3	675.5	420.8
70	936.3	72.7	71.9	73.0	70.5	70.8	44.2	44.7	56.5	41.2	566.8	646.1	616.0	689.4	477.6	452.7	619.3	645.2	673.1	675.1	427.1
71	939.7	72.8	72.0	73.0	70.8	71.3	43.9	43.4	56.3	40.9	572.2	647.7	619.2	687.0	482.6	460.9	619.4	645.0	672.9	674.8	433.1
72	939.8	72.7	72.0	72.8	71.2	71.8	44.4	44.7	56.3	40.1	577.1	648.8	622.6	685.2	487.5	468.7	619.2	644.8	672.3	674.4	438.5
73	941.0	72.8	72.0	72.8	71.7	72.4	44.8	44.2	56.8	40.4	582.5	649.9	626.4	683.4	492.8	474.9	618.8	644.5	671.9	674.2	443.3
74	942.7	72.8	72.1	72.9	72.2	73.1	43.8	44.3	56.1	41.0	586.9	650.5	629.2	681.5	497.7	478.2	619.0	644.1	671.3	673.9	447.6
75	944.1	72.9	72.0	73.0	72.8	73.8	44.2	44.6	56.1	40.8	593.8	650.4	634.1	679.5	504.5	480.2	619.1	643.5	670.8	673.7	451.4
76	945.7	73.0	72.0	73.4	73.4	74.5	43.2	44.5	56.4	40.4	599.9	649.6	637.8	677.7	511.4	483.6	619.4	642.9	670.5	679.3	455.3
77	947.0	73.4	72.0	73.7	74.0	75.2	44.9	44.7	56.5	41.5	605.9	648.8	642.8	675.5	519.2	487.4	619.0	642.2	669.7	673.2	458.9
78	948.1	73.7	72.0	74.0	74.7	76.0	44.5	45.3	56.1	41.7	614.4	648.8	645.1	674.1	526.9	491.4	615.6	641.9	668.1	673.4	461.5
79	950.0	74.2	72.0	74.5	75.4	76.9	45.2	45.0	56.2	42.4	616.0	649.1	647.5	673.7	534.6	495.3	609.3	641.8	665.0	673.9	462.7
80	951.2	74.7	72.1	75.0	76.2	78.1	44.5	44.8	56.2	42.8	619.2	649.4	649.2	673.0	541.1	501.8	606.4	641.3	663.5	674.1	463.4
81	953.3	75.3	72.2	75.6	76.9	79.5	45.1	44.9	55.4	42.1	621.6	649.4	650.5	671.8	547.3	508.8	605.3	641.0	662.7	674.3	464.6
82	953.9	76.4	72.3	76.1	77.9	80.7	45.0	44.3	55.3	41.3	623.0	649.2	652.0	670.7	553.5	513.1	601.9	641.3	661.0	674.3	465.6
83	956.3	78.7	72.6	76.7	79.0	82.1	45.0	45.3	55.2	42.3	624.6	649.6	653.1	671.3	559.2	519.1	599.0	641.4	659.1	674.3	465.8
84	958.3	82.1	72.9	77.4	80.3	83.3	46.0	46.0	56.3	42.0	625.7	649.8	654.7	670.0	564.0	524.9	596.7	641.4	657.4	674.1	466.1
85	959.1	85.2	73.4	78.0	82.2	84.7	46.1	46.2	56.0	42.4	626.9	650.5	655.7	670.3	569.3	531.4	595.2	641.3	656.0	674.2	466.7
86	961.0	87.5	73.7	78.7	84.2	85.8	45.7	44.8	55.3	42.7	627.9	651.1	646.8	672.4	574.3	538.2	594.5	641.4	655.3	674.1	467.7
87	962.4	89.3	74.1	79.4	86.0	86.9	46.4	45.3	55.3	42.0	628.6	651.7	643.9	671.8	577.6	545.5	594.2	641.6	654.7	674.1	468.9
88	963.0	91.0	74.6	80.1	87.6	88.2	45.6	45.0	55.6	43.2	629.4	653.1	644.2	675.4	582.4	553.9	594.9	642.2	655.0	674.8	470.6
89	965.4	92.7	75.0	81.0	88.9	89.4	46.8	45.6	55.3	42.2	630.6	653.9	646.3	673.6	585.0	561.5	596.0	642.7	655.3	675.3	472.7
90	966.9	94.2	75.6	82.0	90.0	94.0	47.0	45.8	55.0	42.7	631.5	654.3	647.6	676.6	587.4	567.8	596.9	642.9	655.9	675.6	474.9
91	968.0	95.6	76.3	82.8	91.1	91.4	46.3	45.8	54.8	42.0	632.6	654.9	649.2	677.4	589.4	573.6	598.2	643.0	656.3	675.8	477.5
92	968.7	96.7	77.1	83.9	92.2	92.4	47.8	47.0	55.8	42.5	633.5	655.7	650.5	678.0	591.7	579.2	599.7	643.6	656.8	676.3	480.2
93	969.7	97.6	77.9	85.2	93.2	93.3	47.7	47.2	55.1	41.4	633.2	656.9	648.9	679.3	593.2	584.7	601.8	644.7	657.2	677.1	482.8
94	970.3	98.4	78.9	86.9	94.3	94.1	49.1	49.9	56.6	44.3	631.8	657.4	646.2	678.7	592.8	589.1	604.3	645.9	658.3	678.0	485.8
95	972.1	99.3	79.8	89.1	95.1	94.8	48.7	51.0	57.2	43.7	630.5	657.6	646.0	677.4	592.8	593.2	607.3	646.9	659.9	678.3	489.3
96	973.0	100.0	80.9	91.3	95.8	95.5	48.8	51.5	57.5	44.0	629.3	658.3	645.3	677.7	592.5	597.2	610.0	648.1	661.0	678.3	493.0
97	974.8	100.6	82.0	93.2	96.5	96.3	50.3	51.7	58.5	44.8	628.3	659.7	641.7	677.6	592.8	601.9	612.9	649.6	662.4	679.5	496.8
98	975.4	101.2	83.1	94.6	97.2	97.0	50.5	52.5	60.1	46.5	628.8	662.1	643.1	680.3	595.4	607.0	615.9	651.3	663.9	681.1	500.7
99	976.7	101.7	84.3	95.6	97.8	97.6	51.0	52.2	60.9	47.7	630.2	664.0	644.8	681.4	597.7	611.3	618.8	653.1	665.5	682.7	504.4
100	978.1	102.2	85.7	96.6	98.5	98.2	52.2	54.5	62.6	47.9	631.4	664.3	646.0	681.1	599.6	613.7	621.2	654.1	667.1	683.7	507.8
101	979.0	102.7	87.0	97.2	99.0	98.8	52.5	55.0	63.9	49.6	633.0	666.1	647.7	684.1	601.9	616.9	623.4	655.5	668.4	685.0	511.0
102	981.0	103.2	88.6	97.9	99.7	99.6	52.5	56.1	63.7	47.1	635.0	667.4	650.0	685.9	605.0	619.6	625.8	656.7	668.0	686.0	513.9
103	982.3	103.6	90.0	98.6	100.2	100.0	52.9	54.9	63.3	46.7	637.0	667.6	652.9	685.9	607.8	621.5	628.4	657.2	671.6	686.6	516.7
104	982.6	104.0	91.4	99.2	100.7	100.4	53.5	55.5	62.9	46.8	638.0	668.2	653.8	687.5	609.2	623.1	635.0	657.9	675.7	687.8	520.8
105	983.9	104.7	92.9	99.8	101.3	101.1	56.8	59.1	65.8	50.0	638.9	670.5	653.8	690.6	611.2	626.3	637.9	659.0	678.3	689.0	525.6
106	985.7	105.3	94.3	100.4	102.0	101.6	59.6	59.2	66.5	51.9	640.3	671.6	655.9	692.8	613.4	628.6	639.8	659.8	680.0	689.9	529.1
107	987.7	106.1	95.6	100.8	102.5	102.3	58.2	58.5	66.4												

Table 37. Temperatures Measured in Assembly S-44, Steel Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
116	996.4	113.4	102.4	104.6	109.6	107.0	60.7	59.5	72.6	49.2	658.9	675.8	678.6	697.9	645.1	639.2	662.9	668.4	705.1	695.1	572.0
117	998.6	114.2	102.7	105.1	110.3	107.6	60.6	58.5	73.9	49.6	661.0	676.7	681.0	696.6	648.4	640.6	665.1	667.1	712.1	696.0	576.8
118	1000.0	115.0	103.1	105.5	111.2	108.2	60.7	60.2	73.9	49.7	662.8	677.3	683.1	697.9	650.4	641.7	666.8	667.7	721.5	696.5	581.1
119	1001.2	116.0	103.5	106.0	111.9	108.7	60.8	60.5	74.9	50.3	664.3	678.0	685.1	699.4	652.5	642.5	668.5	668.5	731.4	697.5	585.2
120	1001.9	117.2	104.0	106.7	112.7	109.4	63.7	62.7	76.8	54.2	665.8	678.8	687.7	706.2	654.7	643.4	670.1	669.2	733.1	699.2	589.0
121	1003.4	118.3	104.4	107.4	113.6	110.1	63.7	61.0	75.0	54.0	666.3	680.3	688.3	710.3	655.2	644.8	671.2	669.5	734.5	698.9	592.4
122	1003.8	119.7	104.9	108.2	114.6	110.9	63.7	62.3	76.8	52.3	667.6	682.0	690.4	712.3	658.9	647.2	672.1	670.8	736.1	699.9	595.6
123	1005.3	121.6	105.4	109.0	115.7	111.6	60.9	61.4	77.0	50.7	669.0	682.7	692.6	712.1	660.1	649.1	673.3	671.7	736.1	701.0	598.5
124	1006.5	124.3	106.0	109.9	116.6	112.4	62.3	61.6	77.8	51.2	670.9	684.1	694.7	714.6	664.5	651.8	674.6	673.1	735.5	702.4	601.5
125	1007.7	128.1	106.6	110.8	117.6	113.1	63.9	62.5	78.4	52.7	672.3	684.5	696.6	718.1	666.6	655.0	674.8	674.3	734.6	702.8	604.0
126	1008.3	132.4	107.3	111.5	118.9	114.0	68.7	67.9	82.4	59.4	674.1	685.6	699.1	717.3	668.6	658.5	675.9	676.1	735.1	703.5	606.6
127	1008.8	135.8	108.2	112.4	120.5	115.0	65.7	64.7	79.6	54.8	675.7	686.9	701.0	718.7	670.8	661.3	676.8	677.7	734.9	701.7	609.3
128	1010.0	143.6	109.2	113.3	122.3	116.0	71.1	69.9	85.2	61.5	676.7	688.1	702.3	719.2	672.1	663.6	675.8	678.6	733.5	700.4	611.7
129	1011.2	151.8	110.2	114.2	125.1	117.1	74.3	72.1	87.3	62.9	677.4	688.5	703.9	720.1	674.1	664.8	674.2	679.3	731.0	701.6	613.2
130	1011.8	163.4	111.2	115.1	128.5	118.3	70.1	68.3	83.2	58.2	678.1	689.4	704.8	720.9	674.5	666.4	674.5	680.6	730.0	702.3	615.4
131	1013.2	182.0	112.0	115.9	131.9	119.6	68.1	67.9	83.4	57.7	679.9	690.8	706.4	722.6	676.6	668.3	675.3	681.8	730.9	703.3	618.4
132	1014.2	199.0	112.8	116.6	134.3	120.9	69.0	70.5	86.1	60.0	681.7	692.2	708.4	723.9	679.4	670.2	676.5	683.3	731.8	704.2	621.9
133	1015.3	215.0	113.6	117.4	138.2	122.4	68.1	67.4	83.7	57.9	683.5	694.1	711.2	726.8	682.2	672.5	678.4	685.3	733.5	705.4	625.1
134	1016.3	230.4	114.3	118.4	144.0	124.3	71.6	71.4	86.1	60.5	686.4	696.9	715.3	729.9	687.7	675.6	681.1	687.9	736.0	702.6	629.0
135	1016.8	246.3	115.2	119.4	149.2	126.4	71.6	71.1	86.6	59.9	689.7	700.7	719.0	733.6	692.4	679.7	687.1	692.0	742.1	705.6	633.8
136	1018.4	263.5	115.9	120.5	154.5	128.9	69.7	68.2	85.6	59.1	691.2	705.0	720.2	738.4	693.6	684.2	697.9	696.4	752.8	709.4	641.6
137	1018.9	283.3	116.8	121.5	162.0	131.9	72.4	70.6	86.8	60.9	694.6	709.5	724.7	743.3	698.7	688.9	704.7	701.9	759.6	715.0	648.7

Table 37. Temperatures Measured in Assembly S-44, Steel Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
0	45.0	27.4	37.0	38.8	28.4	26.2	***	***	25.2	24.0	***	***	25.1	22.1	***	***	24.8	24.1
1	305.3	27.4	36.9	38.8	28.5	25.2	***	***	25.1	24.0	***	***	25.2	22.1	***	***	24.8	24.1
2	406.3	27.5	53.8	51.2	29.7	25.2	***	***	25.2	24.1	***	***	25.2	22.1	***	***	24.8	24.1
3	486.0	28.8	83.4	81.2	33.5	26.1	***	***	25.2	24.0	***	***	25.2	22.2	***	***	24.8	24.1
4	524.9	34.7	88.4	88.9	44.3	34.7	***	***	25.2	24.1	***	***	25.6	22.2	***	***	24.9	24.2
5	568.5	41.9	89.6	90.9	55.9	49.8	***	***	25.8	24.2	***	***	26.6	22.4	***	***	25.1	24.3
6	590.6	46.2	90.5	92.0	62.4	56.4	***	***	27.2	24.5	***	***	29.0	23.1	***	***	25.7	24.8
7	615.9	48.9	91.1	93.6	67.0	60.2	***	***	29.7	25.4	***	***	32.7	24.4	***	***	26.7	25.7
8	644.3	50.7	91.1	96.3	69.3	62.2	***	***	32.8	26.5	***	***	36.7	26.2	***	***	28.1	26.7
9	662.4	52.1	96.8	99.5	71.2	63.3	***	***	35.8	27.9	***	***	40.4	28.4	***	***	29.8	27.8
10	678.8	53.5	103.2	103.4	72.9	64.6	***	***	36.7	29.2	***	***	43.8	30.6	***	***	31.7	28.9
11	688.4	55.0	108.1	108.5	74.8	66.1	***	***	41.3	30.4	***	***	46.8	32.7	***	***	33.5	30.0
12	700.2	56.7	111.2	113.2	76.7	67.8	***	***	43.7	31.7	***	***	49.5	34.8	***	***	35.4	31.1
13	712.2	57.9	113.6	117.0	78.2	69.4	***	***	45.8	32.9	***	***	52.1	36.8	***	***	37.3	32.3
14	723.8	59.5	116.2	120.1	79.9	70.8	***	***	47.9	34.1	***	***	54.3	38.7	***	***	39.0	33.4
15	735.8	60.9	119.6	123.1	81.1	71.7	***	***	49.8	35.3	***	***	56.5	40.7	***	***	40.8	34.6
16	744.9	62.5	123.2	126.2	82.4	72.8	***	***	51.7	36.5	***	***	58.4	42.7	***	***	42.6	35.8
17	753.5	63.7	128.9	130.3	83.4	73.7	***	***	53.5	37.7	***	***	60.2	44.6	***	***	44.4	37.1
18	762.0	65.0	136.8	139.3	85.3	74.5	***	***	55.3	39.0	***	***	61.8	46.5	***	***	46.0	38.3
19	770.6	65.4	161.6	153.5	87.3	74.8	***	***	56.9	40.2	***	***	63.4	48.3	***	***	47.6	39.5
20	778.8	65.4	213.3	198.6	90.5	72.7	***	***	58.3	41.5	***	***	64.8	49.9	***	***	49.1	40.7
21	786.1	67.8	279.7	269.1	95.3	71.8	***	***	59.6	42.8	***	***	65.9	51.1	***	***	50.4	41.7
22	792.3	71.6	333.1	340.9	106.0	78.2	***	***	60.7	43.9	***	***	66.6	51.7	***	***	51.4	42.8
23	798.5	78.3	370.5	409.2	116.6	88.4	***	***	61.6	45.0	***	***	67.8	52.7	***	***	52.6	44.2
24	804.4	89.4	397.0	457.1	126.6	109.4	***	***	62.6	46.1	***	***	69.2	53.5	***	***	53.8	45.7
25	810.4	104.0	419.0	494.0	136.6	136.3	***	***	63.8	47.3	***	***	70.6	54.2	***	***	55.2	47.7
26	815.1	118.1	436.7	525.3	149.1	160.0	***	***	65.6	48.8	***	***	72.1	55.1	***	***	56.9	50.0
27	819.1	132.8	452.8	552.8	163.0	181.3	***	***	67.3	50.4	***	***	73.4	56.4	***	***	58.8	52.7
28	823.1	147.6	466.1	578.5	177.8	201.0	***	***	68.6	52.2	***	***	74.9	57.9	***	***	61.0	55.4
29	828.5	162.0	477.2	601.3	190.0	219.1	***	***	69.7	54.2	***	***	76.8	59.7	***	***	63.2	58.5
30	833.7	175.3	486.9	619.8	199.1	234.4	***	***	71.2	56.3	***	***	78.9	61.9	***	***	65.5	62.2
31	837.7	187.4	495.5	635.0	206.3	247.2	***	***	73.9	58.7	***	***	80.6	64.2	***	***	67.8	66.5
32	841.6	198.7	503.1	647.1	213.8	258.5	***	***	76.9	61.3	***	***	81.8	66.3	***	***	70.2	70.4
33	845.7	209.6	509.5	657.0	220.9	269.3	***	***	79.8	64.4	***	***	82.7	68.1	***	***	72.9	73.7
34	849.1	219.6	514.6	665.6	227.9	278.8	***	***	82.3	68.3	***	***	83.6	69.4	***	***	75.7	76.6
35	853.0	228.5	519.2	673.8	233.9	287.4	***	***	84.4	72.1	***	***	84.6	70.5	***	***	78.1	79.4
36	856.9	236.7	523.8	681.4	240.3	295.5	***	***	86.2	75.2	***	***	85.7	71.8	***	***	80.2	82.0
37	860.0	244.6	528.4	688.6	246.5	302.8	***	***	87.8	77.7	***	***	87.1	73.2	***	***	82.3	84.2
38	864.4	252.1	532.3	693.1	252.7	309.2	***	***	89.2	80.0	***	***	88.8	74.9	***	***	84.3	86.5
39	866.3	259.1	536.0	697.1	258.9	315.0	***	***	90.6	82.2	***	***	90.3	76.9	***	***	86.2	88.6
40	868.9	265.9	540.1	700.8	265.3	321.1	***	***	91.7	84.1	***	***	91.5	78.9	***	***	88.0	90.4
41	871.7	272.5	543.9	702.9	271.7	327.6	***	***	92.9	86.0	***	***	92.6	80.9	***	***	89.7	92.2
42	875.0	278.8	547.7	704.5	278.2	334.4	***	***	94.2	87.7	***	***	93.5	82.6	***	***	91.2	93.7
43	878.0	285.1	551.3	706.2	284.5	342.0	***	***	95.4	89.2	***	***	94.4	84.1	***	***	92.6	95.0
44	881.4	291.2	554.6	707.6	291.0	350.6	***	***	96.5	90.7	***	***	95.2	85.3	***	***	94.0	96.3
45	884.3	297.5	557.8	709.0	297.1	360.5	***	***	97.5	92.0	***	***	95.8	86.4	***	***	95.1	97.4
46	887.6	303.8	561.6	710.8	303.5	372.1	***	***	98.6	93.4	***	***	96.4	87.3	***	***	96.2	98.4
47	889.3	310.4	566.3	713.2	310.2	386.2	***	***	99.6	94.6	***	***	97.0	88.2	***	***	97.2	99.6
48	891.0	317.5	570.7	715.3	316.8	402.4	***	***	100.6	95.7	***	***	97.6	89.0	***	***	98.1	100.7
49	894.6	325.7	576.2	718.5	323.6	420.1	***	***	101.5	96.8	***	***	98.2	89.7	***	***	99.1	101.9
50	896.3	336.0	580.3	719.9	330.2	437.4	***	***	102.4	97.8	***	***	98.8	90.4	***	***	100.0	103.3
51	898.3	345.6	584.3	722.2	336.5	453.3	***	***	103.3	98.8	***	***	99.3	91.0	***	***	101.0	104.7
52	901.5	354.5	588.8	725.6	343.3	469.4	***	***	104.1	99.7	***	***	99.9	91.7	***	***	102.1	106.2
53	903.3	359.0	592.5	728.4	349.8	482.1	***	***	105.0	100.6	***	***	100.5	92.3	***	***	103.4	107.9
54	906.3	366.6	596.6	730.7	356.4	490.8	***	***	105.8	101.4	***	***	101.1	92.8	***	***	104.8	109.7
55	907.9	375.0	601.2	728.7	363.1	496.3	***	***	106.6	102.2	***	***	101.8	93.4	***	***	106.4	111.6
56	909.2	385.2	606.6	723.4	370.1	499.2	***	***	107.4	102.8	***	***	102.5	94.0	***	***	108.2	113.7
57	912.3	396.6	613.0	714.0	377.5	500.5	***	***	108.2	103.5	***	***	103.2	94.5	***	***	110.3	115.7

Table 37. Temperatures Measured in Assembly S-44, Steel Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
58	914.4	409.5	619.3	708.1	384.2	497.1	***	***	109.0	104.2	***	***	103.9	95.1	***	***	112.6	117.8
59	916.1	423.6	624.4	703.6	390.8	496.8	***	***	109.8	104.8	***	***	104.6	95.7	***	***	115.0	120.0
60	918.3	437.3	625.5	699.7	396.8	499.4	***	***	110.6	105.5	***	***	105.4	96.3	***	***	117.3	122.2
61	920.6	449.5	624.4	696.4	402.7	503.5	***	***	111.4	106.3	***	***	106.3	96.9	***	***	119.6	124.6
62	922.2	460.5	623.2	693.9	408.2	509.3	***	***	112.2	106.9	***	***	107.2	97.6	***	***	121.9	126.9
63	924.6	469.3	622.6	692.2	413.6	514.9	***	***	113.0	107.7	***	***	108.0	98.2	***	***	124.2	129.3
64	925.6	476.8	621.8	690.6	418.8	519.7	***	***	113.9	108.5	***	***	108.9	98.8	***	***	126.8	131.8
65	927.8	482.6	621.1	689.3	424.5	524.1	***	***	114.7	109.3	***	***	109.9	99.5	***	***	129.1	134.4
66	929.1	486.0	621.0	688.6	430.1	528.7	***	***	115.6	110.1	***	***	111.0	100.1	***	***	131.7	137.1
67	931.5	487.4	620.4	688.0	434.7	533.1	***	***	116.5	111.0	***	***	112.0	100.7	***	***	134.5	139.8
68	933.6	488.1	626.6	687.3	437.9	536.0	***	***	117.4	111.9	***	***	113.2	101.5	***	***	137.5	142.5
69	934.4	487.3	630.2	687.0	442.0	542.4	***	***	118.4	112.8	***	***	114.4	102.2	***	***	140.6	145.2
70	936.3	485.3	632.5	686.3	444.8	546.0	***	***	119.4	113.7	***	***	115.7	103.0	***	***	143.7	147.8
71	939.7	482.7	636.6	685.4	448.4	548.9	***	***	120.6	114.6	***	***	117.3	103.7	***	***	146.8	150.6
72	939.6	479.5	637.3	684.4	451.9	551.5	***	***	121.8	115.7	***	***	119.3	104.5	***	***	149.8	153.4
73	941.0	477.9	637.3	683.6	456.1	553.9	***	***	123.3	116.9	***	***	121.8	105.2	***	***	153.1	156.4
74	942.7	476.0	637.4	682.7	461.0	555.8	***	***	124.9	118.0	***	***	124.8	106.1	***	***	156.8	159.4
75	944.1	473.9	638.0	681.9	465.0	556.2	***	***	126.8	119.3	***	***	128.3	106.9	***	***	160.8	162.2
76	945.7	471.2	638.0	680.9	469.8	555.7	***	***	129.2	120.8	***	***	131.5	107.8	***	***	164.5	164.7
77	947.0	468.7	638.1	679.9	474.1	555.0	***	***	132.0	122.4	***	***	134.8	108.7	***	***	168.4	167.3
78	948.1	467.7	638.6	679.3	478.7	553.3	***	***	135.3	124.2	***	***	139.3	109.6	***	***	173.2	170.2
79	950.0	467.6	639.3	679.1	483.6	551.3	***	***	139.0	126.3	***	***	145.3	110.6	***	***	179.6	173.2
80	951.2	469.1	639.2	678.8	488.6	549.8	***	***	142.9	129.1	***	***	152.1	111.6	***	***	185.8	176.0
81	953.3	471.4	638.6	678.1	494.3	550.0	***	***	147.7	133.1	***	***	160.2	112.7	***	***	191.4	179.2
82	953.9	474.0	640.8	677.4	501.1	550.3	***	***	153.9	137.5	***	***	170.7	114.0	***	***	197.8	183.1
83	956.3	476.7	644.0	677.2	509.0	552.2	***	***	161.1	141.7	***	***	181.4	115.8	***	***	204.0	187.7
84	958.3	479.2	645.9	676.9	517.4	555.6	***	***	169.0	146.0	***	***	190.3	118.1	***	***	209.4	192.2
85	959.1	481.7	647.1	677.0	525.6	559.0	***	***	177.5	152.4	***	***	197.3	120.8	***	***	214.5	196.5
86	961.0	484.0	648.5	677.7	532.1	561.7	***	***	185.6	160.0	***	***	203.4	124.0	***	***	219.2	200.5
87	962.4	486.0	649.7	678.1	538.9	565.9	***	***	193.3	169.2	***	***	209.2	127.5	***	***	223.2	204.2
88	963.0	488.4	652.6	679.3	547.2	569.7	***	***	200.7	180.2	***	***	215.2	130.7	***	***	227.0	207.5
89	965.4	490.9	653.5	680.2	554.3	574.0	***	***	207.7	190.7	***	***	221.5	134.7	***	***	230.5	210.7
90	966.9	493.6	654.9	681.1	561.0	578.1	***	***	214.2	200.3	***	***	228.7	140.6	***	***	234.0	214.0
91	968.0	496.2	655.9	682.0	567.0	581.9	***	***	220.3	208.2	***	***	236.5	147.2	***	***	237.5	217.3
92	968.7	499.0	657.4	683.0	573.2	585.5	***	***	226.2	215.0	***	***	243.8	154.2	***	***	240.9	220.6
93	969.7	502.2	659.8	684.2	579.3	589.2	***	***	231.7	221.2	***	***	250.2	164.0	***	***	244.4	223.9
94	970.3	505.5	661.4	685.5	586.2	592.5	***	***	237.1	227.4	***	***	256.0	173.5	***	***	247.8	227.4
95	972.1	508.3	661.9	686.5	589.6	594.6	***	***	242.4	233.2	***	***	261.7	180.8	***	***	251.3	230.9
96	973.0	511.0	664.8	687.5	594.8	596.2	***	***	247.6	238.8	***	***	267.4	188.2	***	***	254.7	234.7
97	974.9	514.0	666.9	688.3	601.3	597.8	***	***	252.6	244.4	***	***	273.1	190.8	***	***	258.2	238.4
98	975.4	518.1	668.7	689.5	608.9	600.7	***	***	257.4	249.9	***	***	278.6	195.4	***	***	261.6	242.1
99	976.7	522.2	670.5	690.8	615.7	604.1	***	***	262.0	255.4	***	***	284.1	200.6	***	***	265.2	245.9
100	978.1	524.1	671.9	691.6	621.8	608.2	***	***	266.5	260.8	***	***	289.9	206.3	***	***	268.8	250.0
101	979.0	529.0	674.5	693.0	630.9	611.9	***	***	270.8	266.0	***	***	295.8	212.6	***	***	272.5	254.2
102	981.0	533.7	676.5	694.0	638.5	616.0	***	***	275.1	271.1	***	***	301.8	219.8	***	***	276.0	258.7
103	982.3	536.6	677.4	694.4	640.2	620.5	***	***	279.4	276.1	***	***	307.5	227.7	***	***	279.6	263.4
104	982.6	540.5	677.5	695.7	641.0	625.2	***	***	283.4	280.7	***	***	313.4	235.0	***	***	283.2	268.5
105	983.9	547.2	679.6	697.5	646.0	630.7	***	***	287.2	284.8	***	***	319.7	241.3	***	***	286.8	273.8
106	985.7	552.3	681.9	698.6	649.3	635.6	***	***	290.9	288.5	***	***	326.1	247.4	***	***	290.8	279.3
107	987.7	556.7	682.3	698.5	650.3	639.8	***	***	294.6	292.4	***	***	332.0	253.7	***	***	294.9	285.2
108	988.6	561.9	683.7	699.4	653.2	643.7	***	***	298.3	296.1	***	***	337.8	259.8	***	***	299.2	291.3
109	988.2	567.3	685.4	700.9	657.5	647.9	***	***	301.8	299.6	***	***	343.4	265.9	***	***	303.6	297.5
110	989.5	572.6	687.5	702.2	661.0	652.3	***	***	305.4	303.2	***	***	348.5	271.9	***	***	308.2	303.8
111	990.6	578.0	688.8	703.4	663.4	656.0	***	***	308.9	306.6	***	***	353.4	278.0	***	***	312.7	310.3
112	992.8	582.4	690.5	704.4	666.6	659.3	***	***	312.7	310.0	***	***	358.1	284.2	***	***	316.8	316.7
113	994.0	586.0	692.5	704.4	669.0	662.4	***	***	316.6	313.1	***	***	362.6	290.6	***	***	321.8	323.3
114	995.3	588.9	694.2	704.3	671.4	664.9	***	***	320.7	316.0	***	***	367.0	297.6	***	***	327.2	329.9
115	996.2	591.8	694.0	705.2	672.2	667.1	***	***	324.8	318.4	***	***	371.3	305.8	***	***	332.9	336.6

Table 38. Average Temperatures Measured in Assembly S-44, Steel Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(24,25)	BL/SStd. (Exp.) Av(12,13,16,19)	Wd SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/WStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(26,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
0	45.0	37.9	34.6	30.9	26.8	28.0	24.2	22.4
1	305.3	37.8	35.5	30.9	26.8	28.0	24.2	22.4
2	406.3	52.5	50.9	31.6	27.5	28.5	24.3	22.4
3	486.0	82.3	88.3	42.1	29.8	30.6	24.3	22.4
4	524.8	88.6	95.0	69.4	39.5	37.0	24.3	22.5
5	568.5	90.3	95.1	78.4	52.9	47.0	24.7	22.5
6	590.6	91.3	94.9	80.0	59.4	53.5	25.7	22.5
7	616.9	92.3	94.9	80.0	63.6	67.9	27.4	22.5
8	644.3	93.7	95.0	79.7	65.7	59.5	29.5	22.6
9	662.4	98.2	95.3	79.9	67.3	61.2	31.7	22.8
10	678.8	103.3	96.4	80.4	68.7	62.8	33.8	23.0
11	689.4	108.3	99.1	81.3	70.4	64.4	35.8	23.4
12	700.2	112.2	103.1	82.3	72.3	66.3	37.7	23.9
13	712.2	115.3	109.3	83.4	73.8	67.7	39.5	24.6
14	723.8	118.2	117.1	84.5	75.3	69.5	41.2	25.2
15	735.8	121.3	124.9	85.7	76.4	71.1	43.0	26.1
16	744.9	124.7	131.8	87.2	77.6	72.7	44.6	27.1
17	753.5	129.6	139.1	88.8	78.6	74.1	46.3	28.1
18	782.0	138.1	149.5	90.5	79.9	75.6	47.8	29.3
19	770.6	157.6	164.4	94.3	81.1	76.7	49.3	30.5
20	778.8	205.9	188.5	100.0	81.6	77.5	50.7	31.8
21	796.1	271.4	230.7	110.3	83.5	79.7	51.9	33.1
22	792.3	337.0	272.0	128.3	92.1	84.0	52.9	34.5
23	798.5	389.9	310.0	153.6	102.5	88.7	54.0	36.0
24	804.4	427.0	345.3	182.8	118.0	97.5	55.1	37.3
25	810.4	456.0	373.5	208.5	136.4	107.8	56.5	38.6
26	815.1	481.0	400.1	232.8	154.5	118.8	58.1	39.8
27	819.1	502.8	424.9	256.1	172.2	130.7	59.8	41.0
28	823.1	522.3	446.4	276.5	189.4	143.1	61.7	42.1
29	828.5	539.2	465.9	299.6	204.5	154.9	63.7	43.2
30	833.7	553.3	482.2	319.2	216.7	166.3	66.0	44.4
31	837.7	565.9	496.8	336.5	226.8	177.0	68.6	45.6
32	841.5	575.1	510.2	352.3	236.1	187.2	71.2	46.8
33	845.7	583.2	522.4	366.8	245.1	196.6	73.6	48.2
34	849.1	590.1	533.8	379.7	253.2	205.3	76.0	49.6
35	855.0	596.5	544.4	391.2	260.7	213.3	78.2	51.1
36	858.9	602.6	554.8	401.8	267.9	221.2	80.2	52.5
37	861.0	608.5	564.6	411.6	274.7	229.0	82.0	53.8
38	864.4	612.7	573.7	421.0	281.0	236.3	84.0	55.2
39	866.3	616.6	581.9	429.8	287.0	243.3	85.8	56.5
40	868.9	620.4	589.7	438.3	293.2	250.0	87.4	57.9
41	871.7	623.4	598.6	446.6	299.6	256.6	89.0	59.3
42	875.0	626.1	607.4	456.6	306.3	263.3	90.5	60.6
43	878.0	628.8	615.3	464.6	313.2	270.3	91.8	61.8
44	881.4	631.1	622.5	473.8	320.8	277.7	93.0	62.9
45	884.3	633.4	629.0	483.0	328.8	285.5	94.1	64.0
46	887.5	636.2	635.3	492.2	337.8	293.8	95.0	64.9
47	889.3	639.8	642.2	501.9	348.2	302.8	96.0	65.7
48	891.0	643.0	648.8	511.9	359.6	312.5	97.0	66.4
49	894.6	647.3	654.4	522.4	371.8	322.7	97.9	67.1
50	896.2	650.1	658.4	531.8	383.8	333.2	98.8	67.8
51	898.3	653.3	662.3	541.0	394.9	342.9	99.7	68.3
52	901.5	657.2	668.7	553.3	406.3	352.7	100.6	68.7
53	903.3	660.4	667.3	563.9	416.0	360.5	101.6	69.0
54	906.3	663.6	667.9	570.7	423.6	368.3	102.6	69.2
55	907.9	665.0	668.3	575.9	429.7	375.4	103.7	69.4
56	908.2	665.0	668.5	580.6	434.7	381.5	104.8	69.7
57	912.3	663.5	669.4	585.8	439.0	387.3	105.9	69.8

Table 38. Average Temperatures Measured in Assembly S-44, Steel Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,25)	BL/SStd. (Exp.) Av(12,13,18,19)	Mid SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/WStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
58	914.4	663.7	#DIV/0!	#DIV/0!	440.6	383.6	107.1	70.0
59	916.1	664.0	669.3	593.8	443.8	399.8	108.3	70.2
60	918.3	662.6	668.5	596.8	448.1	406.6	109.6	70.4
61	920.6	660.4	667.5	596.4	453.1	413.5	110.8	70.6
62	922.2	658.5	667.8	602.0	458.8	420.3	112.1	70.8
63	924.6	657.4	667.3	604.5	464.3	426.8	113.4	70.9
64	925.8	656.2	662.6	606.8	469.2	432.4	114.8	71.1
65	927.8	655.2	662.7	608.9	474.3	438.1	116.2	71.2
66	929.1	654.8	663.0	611.2	479.4	443.2	117.6	71.3
67	931.5	654.2	662.9	613.1	483.8	447.7	119.1	71.4
68	933.6	657.0	663.1	615.1	488.0	452.1	120.7	71.5
69	934.4	658.6	663.4	617.3	492.2	456.4	122.3	71.6
70	935.3	659.4	663.4	619.4	495.4	460.7	123.9	71.8
71	939.7	661.0	663.5	621.1	498.7	464.8	125.6	72.0
72	939.6	660.9	663.6	622.5	501.7	468.6	127.4	72.1
73	941.0	660.5	664.0	623.9	506.0	472.2	129.5	72.3
74	942.7	660.0	664.0	625.1	508.4	474.9	131.7	72.6
75	944.1	659.9	664.5	626.7	510.6	477.5	134.1	72.9
76	945.7	659.5	664.8	627.9	512.8	480.4	136.4	73.3
77	947.0	659.0	665.3	629.0	514.5	483.5	138.9	73.6
78	948.1	658.9	665.2	629.4	516.0	486.9	142.0	74.1
79	950.0	659.2	665.0	629.9	517.4	490.1	145.6	74.6
80	951.2	659.0	664.9	629.1	519.2	493.8	149.6	75.2
81	953.3	658.4	664.9	629.3	522.1	498.0	154.1	75.9
82	953.9	659.1	664.5	628.8	525.7	501.5	159.5	76.7
83	956.3	660.6	664.5	628.6	530.6	505.2	165.3	77.8
84	958.3	661.4	664.1	628.4	536.5	508.5	170.8	79.2
85	959.1	662.1	664.1	628.5	542.3	512.3	178.5	80.7
86	961.0	663.1	662.1	628.7	546.8	516.0	182.1	82.0
87	962.4	663.9	661.1	629.0	552.4	519.5	187.8	83.1
88	963.0	665.9	662.3	629.9	558.5	523.8	193.5	84.3
89	965.4	666.9	662.6	630.8	564.2	527.5	199.3	85.4
90	966.9	668.0	663.9	631.4	569.5	530.9	205.3	86.4
91	968.0	669.0	654.7	632.2	574.4	534.2	211.2	87.4
92	968.7	670.2	665.4	633.2	579.4	537.5	215.8	88.5
93	969.7	672.0	665.6	634.1	584.2	540.7	222.6	89.5
94	970.3	673.4	665.3	634.8	589.4	543.3	228.2	90.5
95	972.1	674.2	665.4	635.8	592.1	545.9	233.4	91.6
96	973.0	676.2	665.6	638.4	595.5	548.4	238.2	92.7
97	974.6	677.6	665.3	637.6	599.5	551.4	242.9	93.7
98	975.4	679.1	667.1	639.5	604.8	555.3	247.5	94.6
99	976.7	680.7	668.6	641.6	609.9	558.9	252.2	95.4
100	978.1	681.8	669.5	642.8	615.0	561.3	257.1	96.2
101	979.0	683.8	671.3	644.5	621.4	564.7	262.0	96.9
102	981.0	685.2	672.9	646.2	627.3	568.1	267.1	97.8
103	982.3	685.9	674.2	647.5	630.3	570.7	272.3	98.5
104	982.5	686.6	676.2	649.8	633.1	573.4	277.3	99.2
105	983.9	688.5	677.9	651.6	638.9	577.6	282.2	100.0
106	985.7	689.3	679.7	652.9	642.5	580.9	287.2	100.7
107	987.7	690.4	682.9	654.4	645.1	583.8	282.1	101.5
108	988.6	691.6	683.5	655.5	648.5	586.9	297.1	102.2
109	989.2	693.2	683.7	656.7	652.7	590.2	302.0	102.9
110	989.5	694.9	684.9	657.8	656.6	593.5	306.8	103.6
111	990.6	696.1	686.3	659.1	659.7	596.0	311.6	104.2
112	992.8	697.4	688.4	660.4	662.9	600.1	316.4	104.9
113	994.0	698.5	689.8	661.3	665.7	602.8	321.3	105.6
114	995.3	699.3	690.8	662.0	668.1	605.6	326.4	106.2
115	996.2	699.6	692.4	663.9	669.7	609.0	331.6	106.8

Table 38. Average Temperatures Measured in Assembly S-44, Steel Stud, 1x2 Gypsum Board Layers, Glass Fibre Insulation (Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,14,19)	MID 8Std. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/WStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
115	998.4	701.3	694.2	666.0	672.6	612.9	336.9	107.4
117	998.6	702.5	696.4	667.5	674.4	616.0	342.0	108.0
118	1000.0	703.4	699.8	668.7	676.3	618.4	347.1	108.6
119	1001.2	704.8	703.3	669.8	678.2	620.8	352.2	109.2
120	1001.6	705.6	706.3	671.0	679.4	623.1	357.4	110.0
121	1003.4	705.9	708.0	671.8	680.1	624.9	362.5	110.8
122	1003.8	707.9	709.7	673.1	682.2	628.0	367.9	111.7
123	1005.5	709.4	710.4	674.2	683.4	630.2	372.9	112.7
124	1006.8	711.2	711.8	675.7	685.2	633.4	377.8	113.8
125	1007.7	713.2	713.0	676.5	687.1	636.0	382.4	115.3
126	1008.3	714.5	713.7	677.9	688.2	638.7	387.1	116.8
127	1008.6	716.3	714.1	679.3	689.8	641.4	391.7	118.4
128	1010.0	719.0	713.9	679.8	693.5	643.5	396.2	120.9
129	1011.2	720.9	714.1	679.9	695.0	645.1	400.7	123.7
130	1011.9	723.5	714.5	680.6	696.3	646.7	404.9	127.3
131	1013.2	725.6	715.8	682.0	697.4	649.0	409.0	132.3
132	1014.2	727.6	717.1	683.4	700.2	651.5	413.0	136.7
133	1015.3	731.0	719.2	685.4	704.1	654.3	417.0	141.3
134	1016.3	735.7	721.0	688.1	709.0	659.2	421.1	146.3
135	1016.8	739.3	726.1	692.4	712.1	662.5	425.2	151.3
136	1018.4	743.2	730.2	697.6	717.2	667.0	429.5	156.7
137	1018.9	750.1	735.6	702.7	726.9	672.5	433.9	163.1

Table 39. Temperatures Measured in Assembly S-46, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (wet)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	36.2	23.8	24.3	24.0	23.8	24.4	24.2	23.8	23.7	24.2	30.9	30.1	34.2	33.2	27.9	27.5	31.0	29.9	33.7	32.5	28.1
1	302.3	23.9	24.3	24.0	23.8	24.4	24.3	23.9	23.8	24.3	30.9	30.1	34.6	33.4	27.9	27.5	31.0	29.9	38.6	34.4	28.2
2	410.2	23.9	24.4	24.1	23.9	24.4	24.3	23.9	23.8	24.3	31.3	30.4	60.6	49.8	28.0	27.5	34.6	30.5	75.4	61.6	28.2
3	481.1	23.9	24.4	24.1	23.9	24.4	24.2	23.9	23.8	24.3	37.9	34.5	98.2	95.3	28.2	27.7	51.2	38.4	91.1	89.7	29.7
4	533.9	24.0	24.4	24.1	23.9	24.5	24.3	23.9	23.8	24.4	***	***	***	***	***	***	***	***	***	***	33.2
5	560.0	24.0	24.5	24.1	24.0	24.5	24.3	23.9	23.8	24.4	96.6	94.2	98.7	98.8	56.8	51.8	75.6	69.7	93.7	94.3	38.6
6	593.6	24.0	24.5	24.1	23.9	24.5	24.2	23.9	23.8	24.4	97.3	97.2	99.0	99.6	74.3	83.6	77.5	94.5	94.6	46.3	
7	616.8	24.0	24.5	24.1	24.0	24.6	24.4	24.0	23.9	24.5	96.5	97.1	100.8	99.7	78.8	88.2	87.6	82.7	96.3	95.0	55.1
8	642.8	24.0	24.6	24.2	24.1	24.8	24.5	23.9	23.9	24.5	96.1	96.6	105.5	99.8	80.2	88.5	89.5	86.0	97.8	96.6	63.0
9	663.1	24.1	24.6	24.3	24.5	25.4	24.5	24.0	24.0	24.7	95.8	96.3	112.0	101.5	81.3	88.7	90.5	88.4	102.9	99.3	68.7
10	677.4	24.1	24.8	24.5	25.3	26.3	24.6	24.0	24.0	25.0	95.7	96.0	122.4	108.6	82.2	89.1	91.1	90.0	111.9	105.4	72.8
11	688.6	24.2	25.1	24.9	26.5	27.6	24.8	24.1	24.1	25.6	95.7	96.0	133.8	119.6	82.9	89.2	91.4	91.1	117.6	111.6	75.6
12	700.0	24.4	25.6	25.5	28.0	29.2	25.4	24.5	24.5	26.5	95.5	96.0	146.5	129.5	83.6	89.3	91.8	91.8	122.9	116.4	77.8
13	711.4	24.8	26.3	26.4	28.9	31.0	26.0	24.9	25.0	27.4	94.9	96.5	165.3	142.3	83.8	89.1	91.6	92.2	129.6	121.1	79.4
14	723.5	25.5	27.3	27.5	32.0	33.1	26.8	25.4	25.6	28.5	94.5	97.3	190.0	162.6	83.6	88.7	90.1	91.8	139.1	127.5	79.2
15	735.7	26.3	28.4	29.0	34.4	35.2	27.6	25.8	26.4	29.8	95.4	99.0	221.0	193.0	83.1	88.2	91.9	90.0	172.3	137.4	78.4
16	745.2	27.4	29.7	30.8	36.9	37.5	28.6	26.8	27.6	31.1	98.7	102.3	258.5	226.7	81.9	88.8	99.8	90.1	213.2	167.5	81.3
17	753.8	28.8	31.1	32.6	39.4	39.8	29.8	27.7	28.4	32.8	105.6	107.6	281.3	246.4	80.5	84.3	110.3	94.9	254.4	206.4	83.2
18	763.2	30.2	32.6	34.6	41.8	41.9	31.0	28.6	29.8	34.2	115.7	113.2	306.8	264.0	82.8	82.3	125.2	102.1	297.4	248.8	84.8
19	770.9	31.9	34.1	36.6	43.9	43.8	32.2	29.9	31.0	35.7	125.4	121.2	330.8	282.4	83.1	83.4	144.4	112.8	334.8	286.7	85.8
20	779.2	33.7	35.8	39.0	45.8	45.5	33.1	30.9	32.1	36.9	136.2	130.6	358.7	306.4	82.8	84.5	164.1	126.9	374.8	325.0	87.1
21	786.1	35.7	37.8	41.4	47.3	47.0	34.5	32.2	33.7	38.2	147.4	140.0	385.8	330.0	82.7	84.3	185.4	143.0	411.7	361.2	89.0
22	792.1	38.2	40.0	44.0	48.8	48.4	35.5	32.8	34.7	39.8	159.6	149.8	412.2	358.1	83.1	84.5	208.5	161.8	445.6	394.6	93.0
23	798.6	40.7	42.3	46.6	50.1	49.6	36.8	34.2	35.9	41.0	173.5	160.2	434.9	384.2	83.9	85.1	233.2	182.8	478.8	426.2	98.1
24	804.9	43.4	44.8	49.0	51.3	50.7	37.7	34.7	36.5	42.1	189.2	171.4	463.0	408.3	85.2	86.1	258.4	205.3	509.1	462.4	103.8
25	810.6	46.0	47.3	51.3	52.4	51.8	38.7	35.3	38.3	43.3	205.6	183.3	486.1	432.0	86.5	87.1	282.9	229.6	536.7	491.8	109.9
26	815.1	48.5	49.7	53.3	53.4	52.8	39.3	35.5	39.0	44.3	221.9	196.0	507.0	459.8	88.1	88.2	306.5	256.2	562.8	518.7	117.1
27	819.3	50.8	51.9	55.2	54.4	53.9	40.7	37.3	40.0	45.4	237.5	209.7	527.0	484.7	89.9	89.6	329.9	266.9	587.1	544.6	125.7
28	823.9	52.7	53.8	56.7	55.3	56.0	41.6	36.8	40.8	46.3	263.0	224.5	546.6	505.7	92.6	92.4	353.3	323.9	608.2	567.9	136.1
29	828.8	54.4	55.7	58.2	56.3	56.0	42.8	37.3	41.1	47.3	268.2	239.8	565.4	524.3	96.6	96.8	376.0	364.7	626.1	588.4	147.4
30	833.7	55.8	57.2	59.3	57.1	57.1	43.2	37.2	41.1	48.0	282.7	255.4	582.4	541.5	101.5	101.7	397.9	409.7	642.8	607.7	159.2
31	837.4	57.1	58.6	60.5	57.9	58.0	43.3	37.5	41.8	48.8	296.7	270.9	597.6	557.7	106.5	106.6	419.5	460.0	658.1	625.0	171.1
32	841.1	58.1	59.9	61.4	58.7	59.0	44.8	38.4	43.1	49.4	310.3	286.9	613.0	575.4	111.6	111.9	442.3	512.8	671.8	640.3	183.4
33	845.1	59.1	61.1	62.6	59.5	59.8	45.3	38.8	43.3	49.9	323.6	302.7	626.9	591.2	117.0	117.9	464.1	563.2	684.7	653.7	196.5
34	849.0	60.0	62.4	63.7	60.2	60.7	46.9	39.9	45.6	50.6	336.6	318.5	639.8	604.9	122.7	124.8	485.0	606.8	696.4	656.5	209.6
35	853.3	60.9	63.6	64.9	61.0	61.6	47.2	39.4	46.1	51.0	349.4	334.2	653.9	619.4	129.0	132.4	504.7	642.0	706.4	675.9	223.3
36	856.8	61.5	64.8	65.8	61.7	62.4	48.1	40.2	46.8	51.6	362.1	350.3	666.7	632.6	135.7	140.8	522.8	668.6	715.2	685.1	237.9
37	860.1	62.0	66.0	66.7	62.2	63.1	48.2	39.4	47.1	51.7	375.1	366.1	679.9	650.1	142.8	149.7	539.0	688.0	722.3	693.5	251.9
38	863.4	62.4	67.2	67.7	62.8	63.8	48.6	39.6	47.8	52.1	388.6	381.2	691.2	666.8	150.1	158.2	553.4	700.2	727.7	701.0	264.5
39	866.0	62.8	68.4	68.6	63.2	64.4	48.9	39.0	47.1	51.9	402.6	396.2	705.0	687.9	158.0	166.3	565.7	710.5	731.7	708.3	276.7
40	869.1	62.8	69.5	69.5	63.4	64.8	48.2	38.8	45.9	51.4	417.1	411.5	719.6	705.1	165.6	174.7	576.2	717.8	734.1	714.4	288.3
41	872.0	63.0	70.7	70.4	63.7	65.3	48.5	38.6	46.0	51.9	432.5	428.6	739.2	733.1	173.6	183.9	585.2	727.1	736.3	720.7	299.6
42	875.1	63.2	72.0	71.5	64.0	66.7	49.8	39.0	47.0	52.3	448.6	448.5	758.2	754.1	182.9	194.1	593.5	735.9	738.2	726.3	310.8
43	878.4	63.5	73.2	72.4	64.5	66.1	50.5	41.0	48.1	52.6	465.6	470.9	776.6	767.9	193.6	205.4	602.2	743.0	739.8	731.0	322.8
44	881.6	63.9	74.1	73.3	64.9	66.7	51.5	40.6	47.7	52.6	482.7	495.3	797.7	786.2	204.9	218.2	611.4	749.5	741.9	735.3	336.2
45	884.4	64.2	75.0	74.1	65.4	67.2	50.7	38.9	46.1	51.9	500.4	522.6	815.8	805.8	216.6	232.4	622.0	755.8	745.8	740.3	351.0
46	887.4	64.6	75.9	74.8	65.8	67.7	51.8	40.7	47.5	52.4	518.9	552.7	829.3	816.6	228.9	248.6	631.7	760.8	751.0	744.8	366.9
47	889.7	64.9	76.6	75.1	66.2	68.2	51.6	39.7	46.0	52.1	537.8	581.5	838.4	819.1	242.4	265.8	640.6	763.6	755.7	747.1	383.6
48	891.0	65.0	77.2	75.4	66.6	68.7	51.9	39.1	45.5	52.6	558.9	609.7	833.6	837.1	257.0	284.6	649.6	766.7	762.7	751.4	402.5
49	894.1	65.1	77.7	75.3	66.9	69.2	52.1	39.0	45.5	52.9	580.3	635.2	859.7	838.8	272.8	305.0	659.4	768.3	768.1	755.0	423.0
50	895.8	65.4	78.3	75.4	67.3	69.9	53.3	40.4	47.0	54.1	600.5	656.7	865.2	841.1	289.6						

Table 39. Temperatures Measured in Assembly S-46, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (wet) (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	914.4	69.0	77.4	75.9	70.4	73.7	53.5	41.5	48.7	59.7	757.6	767.4	880.0	835.5	497.3	600.8	774.2	789.1	819.3	814.3	702.4
59	916.0	69.3	77.1	76.6	70.4	73.9	53.5	40.6	47.6	59.7	771.4	776.7	877.9	833.7	533.2	630.1	784.1	794.5	824.3	815.5	725.6
60	918.2	69.6	76.9	77.3	70.6	74.1	55.2	42.2	49.5	60.5	781.1	785.8	872.2	827.1	566.0	658.7	791.5	801.1	821.7	812.0	739.4
61	920.5	69.9	76.9	78.1	70.7	74.4	55.1	42.9	49.8	61.3	788.3	791.0	887.1	821.3	595.1	683.1	793.2	806.6	818.5	807.1	748.7
62	922.3	70.2	76.7	79.0	70.7	74.6	53.9	40.5	47.7	60.5	795.8	791.5	882.6	817.0	623.0	703.2	792.9	811.1	818.9	806.3	755.1
63	924.9	70.4	76.7	79.9	70.6	75.0	54.6	40.8	48.6	61.1	802.6	791.2	860.2	821.7	648.2	717.7	793.1	813.1	822.4	807.7	758.7
64	925.4	70.6	76.8	80.7	70.6	75.7	54.9	40.9	47.8	61.4	810.5	792.2	859.0	824.2	671.5	721.5	793.5	813.6	825.4	808.5	758.7
65	927.3	70.8	77.1	81.5	70.5	76.8	55.1	40.7	49.1	61.6	816.0	793.6	857.0	826.8	691.3	721.3	793.7	814.2	827.0	808.5	757.5
66	928.8	70.8	77.5	82.1	70.4	78.8	55.4	41.1	47.9	61.7	821.1	795.3	857.1	831.6	707.5	721.8	794.8	815.6	829.1	808.7	757.0
67	931.3	70.9	78.0	82.9	70.4	82.0	55.7	40.7	47.6	62.1	825.3	797.6	857.7	834.8	721.0	723.7	797.1	818.0	831.5	809.7	756.7
68	933.3	71.1	78.7	83.8	70.4	85.8	57.1	41.3	48.3	61.6	831.2	800.3	860.3	839.3	739.1	726.3	799.6	822.7	834.4	811.1	757.0
69	934.1	71.2	79.6	84.7	70.6	89.6	56.6	41.9	49.1	61.8	836.9	804.2	863.8	842.4	743.5	729.6	803.0	828.7	838.8	813.5	757.2
70	936.6	71.4	80.7	85.6	70.9	93.2	57.6	42.3	50.7	62.5	840.0	805.5	866.3	843.5	749.9	729.0	803.4	839.8	839.9	813.0	755.5
71	937.3	71.5	81.7	86.6	71.1	96.6	58.4	40.4	49.1	62.6	843.5	808.3	870.2	848.6	755.5	729.4	805.7	850.2	842.8	814.1	753.4
72	938.8	71.8	83.1	87.6	71.6	99.7	58.0	40.9	49.4	62.1	845.9	810.5	874.3	849.4	761.4	728.4	807.8	854.5	844.7	814.1	750.6
73	941.0	72.0	84.4	88.5	72.2	102.5	60.2	41.8	50.2	62.0	849.8	813.3	879.9	853.4	768.1	726.6	810.5	858.7	846.3	814.3	750.2
74	943.3	72.3	86.1	89.6	72.9	104.9	60.7	42.1	49.5	62.4	852.2	815.2	883.4	853.6	774.2	722.7	811.5	861.1	846.4	813.1	750.7
75	944.2	72.5	88.1	90.6	73.6	106.7	59.2	37.9	45.5	60.9	855.1	816.8	866.0	853.3	779.6	717.7	812.2	864.0	845.6	811.1	751.8
76	946.1	72.6	90.7	91.5	74.1	108.2	59.9	37.7	44.7	60.3	857.4	817.4	888.6	853.5	783.8	712.5	811.2	865.7	845.3	809.0	754.0
77	946.8	73.0	93.6	92.7	74.8	109.3	62.7	39.3	47.1	61.2	859.1	818.3	891.1	854.5	788.2	709.6	810.6	867.7	844.7	807.7	754.7
78	947.8	73.6	96.5	94.0	75.7	110.3	65.3	39.2	48.6	61.7	865.4	820.6	900.0	856.2	797.5	708.2	809.9	887.9	845.0	807.7	755.7
79	949.9	74.3	98.9	95.2	76.5	111.3	67.4	42.0	48.8	62.2	871.4	822.3	905.3	856.2	810.6	708.2	809.6	896.9	844.2	808.2	758.5
80	951.0	74.8	100.7	96.1	77.2	112.3	65.4	37.5	44.6	60.8	872.9	824.1	905.0	856.2	817.0	708.8	810.1	898.4	843.3	808.5	759.8
81	952.8	75.0	102.0	96.7	77.7	113.2	64.8	37.4	42.7	59.2	874.7	827.7	904.3	858.0	823.7	711.3	812.8	900.6	843.1	809.8	762.7
82	954.2	75.3	103.1	97.3	78.2	114.2	65.5	35.0	41.1	58.9	876.7	830.9	906.2	860.7	829.4	713.9	814.8	902.7	843.8	811.1	765.0
83	955.7	75.8	104.0	97.6	78.9	115.4	67.4	34.9	41.8	59.9	877.1	833.9	906.2	862.1	833.9	716.1	816.4	903.4	840.5	812.4	765.9
84	957.5	76.5	104.7	97.9	79.4	116.6	68.1	36.0	42.0	59.8	878.9	837.4	904.0	862.3	838.3	717.9	817.7	904.0	839.6	813.4	763.3
85	958.3	77.4	105.4	98.3	80.1	118.1	72.9	39.5	45.7	62.3	877.1	840.6	904.4	868.2	842.1	720.7	819.4	904.8	837.0	813.9	767.0
86	960.4	78.6	106.1	98.8	81.0	119.7	75.2	39.8	47.0	63.9	878.8	844.2	903.5	873.7	846.6	724.0	821.2	905.6	836.0	815.8	768.4
87	961.2	79.9	106.7	99.3	81.8	121.8	75.3	39.7	46.8	65.0	879.4	847.6	905.3	881.8	850.6	726.5	822.8	905.5	835.4	816.8	769.1
88	962.6	81.2	107.3	99.6	82.6	124.6	78.1	41.9	48.1	66.6	882.4	851.5	909.4	890.0	857.8	729.9	825.0	907.2	829.7	819.2	770.3
89	964.6	82.8	107.9	99.9	83.3	128.6	80.4	41.7	48.7	67.9	885.6	858.6	912.8	891.9	866.1	733.3	827.1	909.5	830.2	821.7	771.2
90	966.1	85.1	108.5	100.4	84.2	134.0	80.0	39.9	47.9	68.7	888.1	862.9	915.9	894.2	873.2	736.9	828.8	911.2	831.1	823.8	773.7
91	966.9	88.3	109.1	100.7	85.0	139.8	79.8	41.0	48.1	68.7	889.2	866.6	918.9	893.9	878.9	740.8	830.9	912.6	829.2	826.8	775.1
92	968.3	92.1	109.9	100.9	86.8	151.4	82.6	43.8	49.0	70.1	890.0	873.4	922.5	890.2	883.3	744.7	833.4	915.8	832.6	829.4	779.5
93	969.2	95.4	110.8	101.3	86.7	168.8	82.8	41.7	48.7	71.4	896.0	879.2	925.4	889.8	889.1	748.9	835.9	918.4	833.3	832.1	778.5
94	970.9	98.0	111.8	101.5	87.6	193.7	80.4	40.1	47.9	71.4	897.7	882.5	929.0	889.1	892.8	752.4	837.9	920.5	836.8	835.2	781.6
95	972.2	99.6	112.8	101.6	88.5	219.4	81.2	39.2	46.3	72.3	899.9	885.5	930.0	888.4	897.2	756.3	839.9	923.2	833.1	838.3	783.2
96	972.8	100.6	113.8	101.8	89.6	246.6	80.2	38.4	46.6	72.5	901.2	885.7	931.4	888.8	900.7	760.5	842.5	925.0	830.7	850.0	785.0
97	974.6	101.5	114.6	101.8	91.1	278.9	79.4	37.9	46.9	73.1	901.8	889.0	930.7	889.7	903.6	763.6	843.3	926.4	833.0	851.5	788.6
98	975.3	102.3	115.7	101.8	93.0	323.4	81.4	39.0	48.0	75.3	905.9	894.1	932.5	886.3	909.8	767.9	846.4	928.7	838.0	854.5	792.8
99	977.0	102.8	116.8	101.7	95.1	383.3	82.1	39.3	49.1	77.3	906.0	895.9	932.2	885.1	910.1	769.1	846.5	927.1	838.0	856.9	793.2
100	977.6	103.2	118.1	101.8	97.0	431.7	81.6	39.6	49.5	78.3	908.0	897.9	933.9	886.5	913.7	773.4	849.6	928.2	838.6	860.8	796.1
101	978.5	103.6	119.5	102.0	98.6	468.6	86.3	41.2	51.1	81.2	908.9	899.0	935.7	885.7	916.2	776.0	851.7	927.5	841.6	859.3	798.4

Table 39. Temperatures Measured in Assembly S-46, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (wet) (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
0	36.2	27.7	37.0	35.9	26.3	25.9	***	***	26.1	25.6	***	***	24.4	24.0	***	***	25.9	25.5
1	302.3	27.7	40.8	37.0	26.4	25.9	***	***	26.1	25.6	***	***	24.4	24.0	***	***	25.9	25.5
2	410.2	27.8	76.5	59.5	26.5	26.0	***	***	26.1	25.7	***	***	24.5	24.1	***	***	26.0	25.6
3	481.1	28.5	89.1	84.1	26.6	26.1	***	***	26.1	25.7	***	***	24.5	24.1	***	***	26.0	25.6
4	533.9	31.2	91.7	89.2	27.4	26.6	***	***	26.2	25.7	***	***	24.6	24.2	***	***	26.2	25.7
5	560.0	35.8	95.6	93.2	32.4	30.5	***	***	26.5	25.8	***	***	24.6	24.2	***	***	26.5	25.9
6	593.6	41.7	100.2	98.3	45.8	40.8	***	***	27.9	26.7	***	***	24.6	24.3	***	***	27.2	26.3
7	616.8	48.3	105.2	103.6	61.4	55.7	***	***	30.8	29.6	***	***	25.0	24.8	***	***	28.6	27.1
8	642.8	55.0	109.4	108.1	69.3	66.6	***	***	34.4	33.8	***	***	26.1	26.2	***	***	31.1	28.5
9	663.1	61.1	112.9	112.0	73.2	73.0	***	***	38.0	38.1	***	***	28.1	29.1	***	***	34.6	30.5
10	677.4	66.1	115.8	115.3	75.1	77.3	***	***	41.4	42.0	***	***	31.1	33.6	***	***	39.1	33.1
11	688.6	70.0	118.9	118.4	76.5	79.9	***	***	44.4	45.4	***	***	34.5	38.8	***	***	44.0	36.0
12	700.0	73.0	122.5	121.6	77.8	81.9	***	***	47.3	48.5	***	***	37.9	43.9	***	***	49.2	39.2
13	711.4	75.7	126.6	124.7	79.2	83.8	***	***	49.8	51.1	***	***	41.1	48.3	***	***	54.1	42.4
14	723.5	77.4	138.4	129.1	79.6	85.4	***	***	52.2	53.4	***	***	44.0	51.9	***	***	57.1	45.5
15	735.7	77.3	177.6	142.3	78.2	84.1	***	***	54.3	55.4	***	***	46.5	54.8	***	***	58.2	48.2
16	745.2	77.9	224.6	183.0	77.1	82.0	***	***	56.1	57.3	***	***	48.7	56.4	***	***	61.7	51.0
17	753.8	83.4	299.4	227.4	81.4	86.8	***	***	57.7	58.9	***	***	50.2	57.0	***	***	68.1	55.3
18	763.2	85.7	351.6	300.5	82.7	90.4	***	***	58.9	60.1	***	***	51.9	58.7	***	***	70.2	59.6
19	770.9	87.1	397.7	361.2	83.7	89.8	***	***	60.2	61.0	***	***	53.9	61.6	***	***	71.1	63.2
20	779.2	88.7	442.6	405.0	85.2	90.3	***	***	61.6	61.8	***	***	55.8	63.6	***	***	72.0	66.2
21	786.1	90.7	482.8	448.2	86.6	91.3	***	***	62.7	62.8	***	***	57.7	65.4	***	***	72.9	69.0
22	792.1	93.3	520.3	491.2	87.5	92.4	***	***	63.6	63.8	***	***	59.6	67.0	***	***	74.2	72.0
23	798.6	96.5	553.7	531.0	88.5	94.1	***	***	64.5	64.7	***	***	61.4	68.6	***	***	75.8	75.1
24	804.9	101.1	580.0	566.1	90.1	96.4	***	***	65.5	65.6	***	***	63.0	70.1	***	***	77.4	77.6
25	810.8	106.4	602.8	595.8	92.2	100.3	***	***	66.6	66.3	***	***	64.4	71.4	***	***	78.8	79.8
26	815.1	112.9	623.0	620.8	94.9	106.6	***	***	67.8	67.2	***	***	65.8	72.9	***	***	80.3	81.3
27	819.3	121.0	641.5	642.5	98.6	116.7	***	***	69.0	68.0	***	***	66.9	73.1	***	***	81.6	82.4
28	823.9	131.2	657.6	660.5	104.0	130.9	***	***	70.2	69.0	***	***	67.9	73.6	***	***	82.5	83.2
29	828.8	144.7	670.5	675.1	112.1	152.2	***	***	71.4	70.0	***	***	68.9	74.2	***	***	83.2	84.0
30	833.7	163.5	682.6	688.6	123.5	176.9	***	***	72.6	71.1	***	***	69.8	74.8	***	***	83.7	84.6
31	837.4	190.1	624.6	700.6	139.0	202.4	***	***	73.7	72.3	***	***	70.6	75.4	***	***	84.1	85.0
32	841.1	226.6	651.0	710.1	157.1	225.7	***	***	74.8	73.5	***	***	71.4	76.3	***	***	84.8	85.6
33	845.1	272.1	668.9	717.8	179.8	248.3	***	***	76.0	74.7	***	***	72.2	77.3	***	***	86.0	86.1
34	849.0	323.4	681.6	724.1	206.6	268.2	***	***	77.3	76.0	***	***	73.2	78.4	***	***	87.5	87.1
35	853.3	375.5	691.8	729.0	233.0	282.2	***	***	78.7	77.4	***	***	74.2	79.5	***	***	88.7	88.4
36	856.8	423.4	698.0	733.5	258.8	294.0	***	***	80.2	78.9	***	***	74.9	80.4	***	***	88.7	89.8
37	860.1	465.9	702.3	736.8	281.8	302.9	***	***	82.0	80.9	***	***	75.7	81.2	***	***	91.2	91.0
38	863.4	501.8	704.4	737.4	307.0	299.4	***	***	84.1	83.1	***	***	76.4	81.9	***	***	93.5	92.2
39	866.0	532.2	705.6	734.6	329.9	287.2	***	***	86.2	85.3	***	***	77.1	82.7	***	***	95.0	93.8
40	869.1	556.7	705.9	726.7	354.2	274.2	***	***	88.1	87.3	***	***	77.9	83.5	***	***	97.0	95.6
41	872.0	577.2	706.3	720.8	374.1	274.6	***	***	89.9	89.0	***	***	79.0	84.4	***	***	98.4	97.6
42	875.1	594.9	706.6	717.0	393.4	289.5	***	***	91.4	90.5	***	***	80.4	85.5	***	***	100.3	99.1
43	878.4	610.7	706.7	716.4	411.5	319.4	***	***	92.9	92.0	***	***	81.9	86.7	***	***	102.3	100.5
44	881.6	625.7	706.1	716.9	427.8	360.4	***	***	94.2	93.3	***	***	83.6	88.0	***	***	104.5	101.9
45	884.4	641.7	705.9	724.4	443.0	411.9	***	***	95.4	94.6	***	***	85.5	89.3	***	***	106.8	103.2
46	887.4	657.8	704.7	735.0	459.1	466.2	***	***	96.5	95.9	***	***	87.3	90.7	***	***	109.7	105.0
47	889.7	672.5	702.9	737.7	476.3	507.6	***	***	97.7	97.0	***	***	88.8	91.9	***	***	112.9	107.0
48	891.0	687.2	701.0	746.8	493.0	551.7	***	***	98.8	98.2	***	***	90.2	93.0	***	***	116.4	109.2
49	894.1	701.1	699.4	758.2	512.9	590.5	***	***	100.1	99.3	***	***	91.4	94.2	***	***	120.4	111.6
50	895.8	712.7	695.2	760.8	529.3	618.3	***	***	101.3	100.3	***	***	92.4	94.9	***	***	124.3	113.8
51	898.3	721.7	693.8	757.1	548.7	638.3	***	***	102.5	101.3	***	***	93.2	95.2	***	***	128.1	116.3
52	901.9	729.8	693.6	754.1	571.0	658.8	***	***	103.6	102.3	***	***	93.9	95.3	***	***	132.1	118.8
53	903.3	736.4	697.2	751.3	595.3	677.4	***	***	104.8	103.3	***	***	94.4	95.6	***	***	136.1	121.4
54	905.2	742.8	707.0	748.8	618.5	693.7	***	***	105.9	104.2	***	***	95.0	95.7	***	***	140.3	124.1
55	907.4	748.9	716.1	746.6	639.3	707.2	***	***	107.2	105.1	***	***	95.7	95.8	***	***	144.4	126.8
56	909.1	755.7	743.8	747.5	662.7	718.0	***	***	108.6	106.1	***	***	96.6	95.9	***	***	148.5	129.7
57	912.9	763.9	756.9	751.7	680.2	730.2	***	***	110.4	107.2	***	***	97.6	96.0	***	***	153.5	132.6

Table 39. Temperatures Measured in Assembly S-46, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (wet) (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																	
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	
58	914.4	770.8	760.8	754.9	693.6	739.1	***	***	112.4	108.3	***	***	98.8	96.1	***	***	159.6	135.6	
59	916.0	778.4	762.1	760.8	705.7	749.0	***	***	114.4	109.4	***	***	99.9	96.3	***	***	165.9	138.5	
60	918.2	787.2	760.1	760.6	713.7	760.5	***	***	116.8	110.6	***	***	101.2	96.7	***	***	172.6	141.6	
61	920.5	794.4	760.6	774.2	720.3	768.3	***	***	119.5	111.9	***	***	102.7	97.1	***	***	178.8	144.6	
62	922.3	800.5	764.1	780.0	727.1	776.4	***	***	122.6	113.2	***	***	104.5	97.6	***	***	185.2	147.8	
63	924.9	803.5	768.3	789.0	733.5	784.0	***	***	125.7	114.5	***	***	106.4	98.1	***	***	192.4	150.6	
64	925.4	804.7	775.1	791.0	740.1	784.4	***	***	129.9	115.8	***	***	108.8	98.7	***	***	200.1	153.2	
65	927.3	805.5	780.3	790.9	745.8	783.1	***	***	136.7	117.4	***	***	112.2	99.2	***	***	207.5	155.9	
66	928.8	807.9	784.4	790.7	750.6	783.3	***	***	143.5	118.9	***	***	117.0	99.8	***	***	215.3	159.2	
67	931.3	810.7	788.7	790.9	754.8	784.0	***	***	160.4	120.3	***	***	124.9	100.4	***	***	222.9	162.7	
68	933.3	813.5	793.9	791.8	759.6	784.7	***	***	189.1	122.0	***	***	138.5	101.0	***	***	230.2	165.4	
69	934.1	817.0	800.6	795.1	762.9	787.0	***	***	211.9	124.0	***	***	156.9	101.6	***	***	237.7	168.3	
70	936.6	818.1	800.4	795.7	761.8	786.9	***	***	230.5	126.6	***	***	176.1	102.3	***	***	244.6	171.2	
71	937.3	820.3	801.5	799.5	759.2	789.2	***	***	245.8	130.0	***	***	191.7	102.9	***	***	251.9	174.8	
72	938.8	820.3	800.1	802.8	754.0	790.8	***	***	259.5	133.8	***	***	204.0	103.6	***	***	258.9	178.5	
73	941.0	820.5	798.0	811.3	747.7	791.4	***	***	272.6	137.1	***	***	214.7	104.4	***	***	266.0	182.7	
74	943.3	820.7	795.7	818.2	740.1	790.5	***	***	284.8	140.3	***	***	225.1	105.1	***	***	272.9	187.6	
75	944.2	821.5	794.4	821.9	732.6	789.1	***	***	296.1	144.5	***	***	235.1	105.9	***	***	279.9	193.1	
76	946.1	823.0	793.6	824.8	724.7	786.9	***	***	307.4	150.3	***	***	244.9	106.6	***	***	286.7	197.7	
77	946.9	825.0	793.3	825.2	715.8	785.4	***	***	319.3	155.9	***	***	253.8	107.4	***	***	293.7	202.1	
78	947.6	828.1	795.3	829.1	716.1	783.8	***	***	332.1	161.5	***	***	262.4	108.7	***	***	301.0	206.3	
79	949.9	830.0	799.3	836.7	714.9	779.1	***	***	343.9	167.8	***	***	270.7	110.1	***	***	308.1	210.5	
80	951.0	832.4	800.6	849.9	709.9	775.2	***	***	354.7	173.7	***	***	279.2	111.5	***	***	315.8	214.4	
81	952.8	835.5	801.8	860.9	703.2	775.5	***	***	364.4	178.7	***	***	288.0	113.1	***	***	324.4	218.5	
82	954.2	838.3	802.1	867.4	702.4	774.8	***	***	374.9	183.6	***	***	297.4	114.9	***	***	333.3	222.5	
83	955.7	840.6	803.3	860.7	704.1	774.3	***	***	386.3	188.3	***	***	306.8	117.0	***	***	342.5	226.6	
84	957.5	842.9	804.1	861.8	705.0	775.9	***	***	397.5	192.9	***	***	316.2	119.5	***	***	352.1	230.9	
85	958.3	845.1	805.4	871.8	708.0	777.0	***	***	407.8	197.6	***	***	325.3	122.5	***	***	361.6	235.1	
86	960.4	847.8	806.3	880.0	712.2	780.2	***	***	417.0	202.3	***	***	334.3	125.6	***	***	370.5	239.6	
87	961.2	850.1	806.9	886.3	717.7	783.7	***	***	425.5	207.0	***	***	343.6	128.5	***	***	378.1	244.0	
88	962.6	852.5	811.6	889.8	724.2	788.3	***	***	433.6	211.7	***	***	352.7	131.9	***	***	384.6	248.6	
89	964.6	859.4	817.2	895.4	728.4	789.7	***	***	441.2	216.2	***	***	361.8	137.1	***	***	391.1	253.3	
90	966.1	862.7	822.3	898.7	730.9	796.2	***	***	448.5	220.6	***	***	371.5	142.5	***	***	397.6	258.2	
91	966.9	867.9	826.0	901.1	734.9	800.0	***	***	455.9	225.1	***	***	381.8	148.2	***	***	403.9	263.3	
92	968.3	871.9	829.0	904.1	738.6	804.3	***	***	462.7	229.4	***	***	391.0	156.2	***	***	409.6	268.7	
93	969.2	875.8	831.4	907.5	739.7	808.7	***	***	469.5	233.9	***	***	400.1	164.4	***	***	415.0	274.3	
94	970.9	876.8	832.3	910.1	743.1	813.1	***	***	476.8	238.4	***	***	409.2	171.8	***	***	420.4	280.1	
95	972.2	878.1	835.7	913.8	750.5	817.6	***	***	484.0	242.9	***	***	418.4	176.9	***	***	425.8	286.1	
96	972.8	874.9	838.2	915.4	753.0	821.8	***	***	491.4	247.7	***	***	427.6	182.9	***	***	430.9	292.5	
97	974.6	874.4	839.9	916.6	756.5	828.0	***	***	499.1	252.6	***	***	437.1	188.3	***	***	436.4	299.1	
98	975.3	877.9	842.3	917.8	760.1	835.9	***	***	506.6	257.6	***	***	446.6	194.1	***	***	442.0	306.2	
99	977.0	878.7	840.2	920.0	762.6	836.3	***	***	514.3	262.7	***	***	455.8	200.6	***	***	447.8	313.7	
100	977.6	877.2	843.6	909.5	764.3	846.7	***	***	522.1	267.9	***	***	464.9	207.3	***	***	453.5	321.5	
101	978.5	874.5	846.7	924.7	769.9	856.7	***	***	530.2	273.3	***	***	473.4	214.3	***	***	459.4	329.8	

Table 40. Average Temperatures Measured in Assembly S-46, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (wet)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,18,19)	Mid SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
0	36.2	36.4	33.4	30.5	26.1	27.8	25.3	24.1
1	302.3	36.9	35.2	30.5	26.2	27.8	25.3	24.1
2	410.2	68.0	61.9	31.7	26.2	27.9	25.3	24.1
3	481.1	86.6	93.6	40.5	26.3	28.5	25.3	24.1
4	533.9	90.4	***	***	27.0	32.2	25.4	24.2
5	560.0	94.4	96.4	84.0	31.5	45.7	25.6	24.2
6	593.6	99.2	96.9	88.9	43.3	61.5	26.2	24.2
7	616.8	104.4	97.7	91.0	58.6	67.6	27.6	24.2
8	642.8	108.8	99.9	92.0	68.0	71.7	30.0	24.4
9	663.1	112.4	103.9	92.7	73.1	75.0	33.1	24.6
10	677.4	115.6	112.1	93.2	76.2	77.5	36.7	25.0
11	688.6	118.7	120.6	93.6	78.2	79.4	40.5	25.6
12	700.0	122.0	128.8	93.7	79.9	80.9	44.3	26.5
13	711.4	125.6	139.6	93.8	81.5	82.0	47.8	27.7
14	723.5	133.7	154.8	93.4	82.5	82.2	50.7	29.1
15	735.7	159.9	180.9	94.1	81.2	81.8	52.9	30.7
16	745.2	203.8	216.0	97.7	79.6	82.0	55.2	32.5
17	753.8	263.4	247.1	104.6	84.1	82.9	57.9	34.3
18	763.2	326.0	279.3	114.1	86.6	83.9	59.9	36.2
19	770.9	379.5	308.7	125.9	86.7	84.9	61.8	38.1
20	779.2	423.8	341.2	139.5	87.7	85.8	63.5	39.9
21	788.1	465.5	372.2	154.0	89.0	86.7	65.1	41.8
22	792.1	505.8	402.6	169.9	90.0	88.5	66.7	43.9
23	798.6	542.4	431.3	187.4	91.3	90.9	68.4	45.9
24	804.9	573.0	460.7	206.1	93.2	94.0	69.9	47.8
25	810.8	599.3	486.7	225.4	96.2	97.5	71.2	49.8
26	815.1	621.9	512.1	245.1	100.8	101.6	72.5	51.5
27	819.3	642.0	535.8	266.0	107.6	106.5	73.6	53.2
28	823.9	659.1	557.1	288.7	117.4	113.1	74.4	54.7
29	828.8	672.8	576.0	312.2	132.2	121.4	75.3	56.1
30	833.7	685.6	593.6	336.4	150.2	131.5	76.1	57.3
31	837.4	662.6	609.6	361.8	170.7	143.6	76.9	58.4
32	841.1	680.6	625.1	388.1	191.4	158.4	77.7	59.4
33	845.1	693.3	639.1	413.4	214.1	175.9	78.7	60.4
34	849.0	702.9	651.6	436.7	237.4	195.2	79.9	61.4
35	853.3	710.4	663.9	457.8	257.6	215.1	81.1	62.4
36	856.8	715.7	674.9	475.9	278.4	234.5	82.3	63.2
37	860.1	719.5	686.4	492.1	292.4	252.6	83.7	64.0
38	863.4	720.9	696.7	505.8	303.2	268.7	85.2	64.8
39	866.0	720.1	708.2	518.7	308.6	289.3	86.7	65.5
40	869.1	716.3	718.3	530.7	314.2	296.4	88.3	66.0
41	872.0	713.6	732.3	543.3	324.4	308.6	89.7	66.6
42	875.1	711.8	744.2	556.6	340.9	320.7	91.2	67.3
43	878.4	711.5	753.8	570.4	365.5	339.1	92.7	67.9
44	881.6	711.5	765.3	584.7	394.1	346.3	94.2	68.6
45	884.4	715.1	776.9	600.2	427.4	360.4	95.8	69.2
46	887.4	719.9	785.5	616.0	462.6	375.6	97.5	69.7
47	889.7	720.3	790.1	630.9	492.0	391.1	99.2	70.2
48	891.0	723.9	801.2	646.2	522.4	407.8	101.0	70.6
49	894.1	728.8	805.4	660.8	551.7	425.5	102.8	70.8
50	895.8	728.0	809.3	674.0	573.8	443.9	104.5	71.3
51	898.3	725.4	811.4	686.1	594.0	463.4	106.1	71.6
52	901.9	723.8	815.6	699.0	614.9	485.3	107.7	71.9
53	903.3	724.3	820.4	711.9	636.4	510.2	109.3	72.1
54	905.2	727.9	825.7	726.0	656.1	536.5	110.9	72.3
55	907.4	731.3	830.2	738.2	673.3	564.0	112.5	72.5
56	909.1	745.7	833.0	750.6	690.4	591.0	114.2	72.8
57	912.9	754.3	834.1	762.2	705.2	616.5	116.2	73.0

Table 40. Average Temperatures Measured in Assembly S-46, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation(wet)(Cont.)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,18,19)	Mid SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
58	914.4	757.8	837.3	772.1	716.3	642.9	118.5	73.3
59	916.0	761.4	837.9	781.7	727.3	666.8	120.8	73.5
60	918.2	764.8	833.3	789.9	737.1	687.8	123.2	73.7
61	920.5	767.4	828.5	794.8	744.3	705.3	125.8	74.0
62	922.3	772.1	826.2	797.9	751.7	720.5	128.5	74.3
63	924.9	779.2	828.0	800.0	758.7	732.0	131.3	74.5
64	925.4	783.1	829.3	802.4	762.3	739.4	134.4	74.9
65	927.3	785.6	829.8	804.4	764.4	743.9	138.1	75.3
66	928.8	787.6	831.6	806.7	767.0	748.6	142.3	75.9
67	931.3	789.8	833.4	809.5	769.4	753.0	146.6	76.9
68	933.3	792.9	836.3	813.5	772.1	757.4	157.7	78.0
69	934.1	797.9	839.6	818.2	774.9	761.8	166.7	79.2
70	936.6	798.1	840.7	822.2	774.4	763.1	175.2	80.4
71	937.3	800.5	843.9	826.9	774.2	764.7	182.9	81.5
72	938.8	801.4	845.6	829.7	772.4	765.2	189.7	82.8
73	941.0	804.6	848.5	833.1	769.5	766.4	196.3	83.9
74	943.3	806.9	849.1	835.0	765.3	767.1	202.6	85.2
75	944.2	808.1	849.0	837.0	760.9	767.6	209.1	86.3
76	946.1	809.2	849.1	837.9	755.8	768.4	215.6	87.4
77	946.9	809.3	849.5	838.9	750.6	769.4	222.0	88.7
78	947.8	812.2	852.2	846.0	749.9	772.4	228.7	90.0
79	949.9	818.0	853.4	850.1	747.0	776.8	235.2	91.2
80	951.0	825.3	853.2	851.4	742.6	779.5	241.5	92.2
81	952.8	831.4	853.8	854.0	739.3	783.3	247.8	92.9
82	954.2	834.7	855.4	856.3	738.6	786.6	254.4	93.6
83	955.7	832.0	855.3	857.7	739.2	789.1	261.2	94.3
84	957.5	833.0	854.8	859.0	740.4	790.6	268.2	95.0
85	958.3	838.6	855.9	860.4	742.5	793.7	275.0	95.9
86	960.4	843.1	857.2	862.5	746.2	796.7	281.5	96.9
87	961.2	846.6	859.8	863.8	750.7	799.1	287.8	97.9
88	962.6	850.7	862.1	866.5	756.2	802.6	293.9	99.0
89	964.6	855.3	864.2	870.2	759.0	807.5	300.1	100.5
90	966.1	860.5	866.2	872.8	763.3	811.6	306.5	102.5
91	966.9	863.6	867.2	875.3	767.4	815.7	313.0	104.6
92	968.3	866.6	868.7	878.9	771.5	819.9	319.6	108.0
93	969.2	869.4	870.1	882.1	774.2	823.1	326.2	112.6
94	970.9	871.2	872.5	884.6	778.1	825.9	332.7	118.5
95	972.2	874.8	872.4	887.1	784.0	828.7	339.0	124.4
96	972.8	876.8	875.2	888.6	787.4	830.3	345.5	130.5
97	974.6	879.2	876.2	890.1	792.3	832.6	352.1	137.6
98	975.3	880.0	877.8	893.8	798.0	837.1	358.8	147.2
99	977.0	880.1	878.1	894.4	799.5	837.8	365.8	160.0
100	977.6	876.5	879.9	895.9	805.5	840.1	372.9	170.4
101	978.5	885.7	880.6	896.8	813.3	841.3	380.1	178.5

Table 41. Temperatures Measured in Assembly S-47, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (wet)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	31.2	24.0	24.2	24.0	23.9	24.2	23.8	23.0	23.1	23.5	25.5	25.3	26.0	25.9	25.1	24.8	25.4	25.1	25.8	25.5	25.1
1	301.8	24.0	24.2	24.0	23.9	24.2	23.8	23.0	23.1	23.5	25.6	25.3	26.3	26.1	25.0	24.8	25.3	25.0	32.1	30.2	25.1
2	411.3	24.0	24.2	24.0	23.9	23.9	23.8	23.0	23.1	23.5	25.8	25.6	25.6	25.6	25.1	24.9	27.2	26.3	67.6	61.4	25.1
3	479.6	24.0	24.2	23.9	23.9	24.2	23.8	23.2	23.2	23.6	30.5	28.3	95.7	68.3	25.3	24.9	36.3	34.4	87.3	84.2	26.1
4	532.4	23.9	24.2	23.9	23.9	24.2	23.8	23.0	23.1	23.5	75.4	41.4	99.2	99.2	26.9	25.7	50.3	48.2	91.7	90.7	29.2
5	563.8	23.9	24.2	23.9	23.9	24.2	23.8	23.0	23.1	23.5	96.9	87.9	98.7	99.2	38.3	30.3	63.0	61.0	93.5	92.4	35.1
6	592.2	23.9	24.2	23.9	23.9	24.2	23.8	22.9	23.0	23.5	97.2	96.3	98.6	98.9	55.1	46.3	72.8	70.4	94.6	93.2	42.7
7	617.1	24.0	24.3	24.0	23.9	24.2	23.8	23.0	23.0	23.5	95.8	96.3	98.1	99.0	62.9	59.8	79.3	76.6	95.6	94.0	49.5
8	642.4	24.1	24.4	24.1	23.9	24.5	24.0	23.1	23.2	23.8	94.3	95.2	98.0	99.0	66.1	65.4	82.7	80.4	98.4	97.5	54.9
9	660.2	24.3	24.9	24.3	24.1	25.0	24.3	23.2	23.1	24.0	93.7	93.9	100.3	99.7	68.7	67.6	84.7	82.7	103.8	103.4	59.3
10	675.8	24.8	25.6	24.7	24.4	25.8	24.9	23.4	23.4	24.6	83.5	93.2	112.6	107.2	70.9	89.1	86.1	84.2	111.4	109.4	62.6
11	688.1	25.7	26.6	25.3	24.9	26.9	25.8	23.8	23.7	25.3	93.5	93.0	128.1	119.3	72.9	70.7	87.4	85.3	117.8	114.8	65.5
12	699.6	26.8	28.1	26.2	25.6	28.3	26.8	24.4	24.1	26.2	93.5	93.2	140.4	130.8	74.6	72.3	88.4	86.3	124.0	119.8	68.1
13	711.9	28.1	29.8	27.3	26.5	30.0	28.1	25.0	24.7	27.1	93.3	93.6	154.7	141.0	76.2	73.9	89.5	87.3	131.3	126.1	70.5
14	724.3	29.7	31.8	28.6	27.6	31.8	29.5	25.5	25.4	28.4	92.4	93.9	174.7	152.3	77.5	75.7	89.0	86.2	141.9	135.2	72.0
15	736.4	31.6	34.0	30.1	28.8	34.0	30.8	26.3	25.9	29.4	93.2	94.4	199.6	166.1	77.9	77.0	87.8	84.7	173.8	167.0	72.3
16	745.6	33.6	36.3	31.7	30.2	36.0	32.5	26.9	26.8	30.8	96.6	95.2	228.4	178.6	77.3	77.4	92.4	90.1	207.4	204.4	73.7
17	754.2	35.8	38.6	33.5	31.7	38.7	33.7	27.4	27.3	31.9	102.0	96.6	252.3	196.3	79.0	77.5	92.5	244.6	246.6	78.3	
18	763.1	37.9	40.8	35.2	33.4	41.0	35.0	28.3	28.1	32.9	110.6	100.1	279.0	219.9	80.5	78.3	106.0	98.0	281.8	290.6	80.2
19	771.2	40.0	43.1	37.0	35.1	43.3	36.3	29.1	28.9	33.8	120.5	106.7	302.2	245.9	81.8	80.3	117.1	110.2	317.1	329.5	81.4
20	780.0	42.1	45.3	39.0	36.9	45.6	37.6	29.9	30.2	35.2	131.4	115.5	334.0	273.4	82.7	83.1	129.9	126.3	351.0	367.4	82.5
21	786.0	44.2	47.4	41.0	38.7	47.8	38.9	30.2	31.0	36.1	143.3	125.7	364.7	300.6	83.6	85.4	143.7	145.1	387.7	403.0	84.1
22	791.7	46.3	49.5	43.0	40.8	49.9	39.7	31.3	31.7	37.3	155.4	136.0	392.9	327.9	84.6	86.9	159.4	165.2	422.4	435.7	85.7
23	798.1	48.2	51.3	45.0	42.8	51.7	40.8	31.6	33.0	39.1	168.4	147.4	419.1	361.3	85.8	88.9	177.0	185.8	462.3	469.4	87.7
24	804.1	49.8	53.0	47.0	44.9	53.4	41.0	31.7	33.4	39.0	182.3	159.7	446.8	389.7	87.4	90.6	196.2	206.7	492.7	494.4	92.4
25	810.2	51.5	54.4	48.8	46.9	54.9	42.2	32.7	34.3	39.7	196.9	173.5	471.6	416.8	88.7	91.9	215.5	227.1	518.7	516.7	98.5
26	815.3	53.0	55.8	50.6	48.8	56.2	42.9	32.4	35.4	41.5	211.5	187.2	492.1	440.9	91.2	92.8	233.8	247.0	542.4	537.2	105.3
27	819.1	54.5	57.1	52.4	50.7	57.2	43.7	33.6	36.0	41.7	226.0	201.3	511.6	465.1	93.3	93.4	250.9	266.2	563.4	555.7	113.0
28	823.2	55.8	58.3	54.1	52.5	58.6	43.9	33.5	36.3	41.7	240.2	215.6	530.0	485.2	96.6	94.7	266.1	284.4	583.2	571.9	120.7
29	828.4	57.2	59.4	55.7	54.1	59.7	44.4	34.3	37.8	43.1	254.8	230.2	547.8	503.9	100.7	97.5	279.7	301.4	600.1	586.0	128.7
30	834.2	58.6	60.5	57.2	55.6	60.5	44.9	34.3	37.5	42.8	269.8	244.6	565.9	522.1	105.4	100.1	291.5	316.9	614.3	598.4	136.9
31	837.3	59.9	61.5	58.8	56.8	61.3	45.2	34.4	37.5	42.9	285.3	259.0	584.5	539.3	110.9	103.0	301.3	330.8	627.0	609.5	144.1
32	840.7	61.3	62.7	60.5	58.1	62.1	47.1	36.9	39.5	44.6	301.3	273.5	602.1	556.0	117.1	106.6	310.0	343.1	638.1	619.3	151.2
33	844.8	62.3	63.6	61.9	59.0	62.8	47.0	36.5	39.3	44.9	317.4	287.8	619.6	572.2	123.7	111.1	317.7	353.7	646.1	626.1	158.1
34	849.1	63.3	64.6	63.2	59.9	63.5	47.9	36.6	38.9	44.4	333.8	302.1	636.6	587.8	130.6	115.9	324.3	362.3	652.7	631.8	164.5
35	852.9	64.7	65.5	64.5	60.9	64.3	49.6	37.9	40.5	46.2	350.2	316.2	652.6	601.8	137.6	121.5	330.5	369.5	660.5	639.1	170.5
36	856.2	66.0	66.4	66.0	61.7	65.1	50.7	38.3	42.2	47.6	366.0	329.7	671.7	614.7	144.3	127.4	336.2	376.2	666.1	644.2	176.0
37	859.6	66.9	67.3	67.3	62.4	65.6	49.9	37.6	40.2	45.8	381.5	342.6	692.5	628.0	150.8	133.6	341.3	381.8	670.6	648.2	181.5
38	863.8	67.7	67.8	68.3	63.2	66.4	50.1	38.6	40.7	46.4	397.0	355.0	712.6	639.9	156.9	140.6	346.1	386.4	674.0	651.4	186.7
39	865.9	68.2	68.4	69.1	63.9	67.2	50.4	37.8	41.2	46.3	412.3	366.8	731.8	650.9	163.1	147.8	350.2	390.5	677.9	655.6	191.7
40	868.8	68.7	68.9	69.8	64.8	68.1	51.1	38.5	41.3	47.3	428.6	377.7	750.0	661.3	169.3	153.9	353.9	394.2	681.7	659.0	196.5
41	871.9	69.2	69.5	70.4	65.8	69.0	50.5	38.8	41.9	47.9	443.8	388.0	765.1	670.9	176.0	159.3	357.4	398.2	685.4	661.9	201.3
42	874.7	69.6	70.1	70.9	66.9	69.8	52.0	38.8	42.7	48.7	456.7	397.1	776.7	680.1	182.6	164.3	360.9	402.1	689.2	665.0	205.9
43	877.8	70.0	70.6	71.2	67.8	70.5	52.7	39.3	43.8	50.1	468.7	405.5	787.6	689.5	189.3	169.3	364.4	406.4	692.8	666.8	210.4
44	881.6	70.3	71.0	71.5	68.6	71.1	52.8	39.7	44.1	51.0	479.6	413.3	794.2	698.3	195.8	174.3	367.9	410.4	695.9	667.2	214.4
45	884.6	70.3	71.3	71.9	69.3	71.4	52.5	39.8	44.5	51.2	489.4	420.7	802.3	708.4	202.2	179.3	371.4	414.4	698.9	667.1	218.6
46	887.4	70.2	71.4	71.9	69.4	71.5	52.4	39.0	43.7	50.1	498.2	428.0	810.1	718.8	208.4	184.3	374.8	418.2	700.7	667.1	222.7
47	889.7	70.1	71.5	71.8	69.7	71.3	52.3	38.9	44.4	50.6	506.4	434.8	814.6	729.0	214.5	189.2	378.3	421.9	702.8	667.6	226.8
48	891.5	69.9	71.5	71.7	69.8	71.6	52.9	39.4	44.6	50.4	514.0	441.5	818.1	738.9	220.5	194.1	381.8	425.6	705.3	668.0	230.8
49	893.8	69.8	71.7	71.6	70.0	71.6	51.6	38.8	44.2	50.2	521.2	484.1	821.4	748.2	226.4	198.7	385.1	429.2	707.3	668.4	235.0
50	895.7	69.7	71.9	71.5	70.1	71.6	52														

Table 41. Temperatures Measured in Assembly S-47, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (wet) (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
58	914.2	71.2	76.5	74.6	70.9	72.1	52.2	38.6	45.4	52.0	588.0	522.1	651.9	845.6	284.6	241.2	417.4	461.2	732.3	677.1	287.1
59	916.3	71.8	77.2	75.3	71.0	72.5	53.4	38.8	46.1	52.9	595.2	527.5	853.6	850.2	292.6	246.2	421.5	464.1	734.8	678.1	296.4
60	918.1	72.4	78.0	76.1	71.1	73.0	52.6	39.3	45.8	51.7	602.3	532.1	855.5	853.2	300.7	251.0	428.0	467.6	736.8	679.2	307.9
61	920.1	73.1	78.7	76.9	71.2	73.6	52.6	38.8	45.6	52.3	608.5	536.3	859.3	854.0	308.5	255.8	430.1	471.5	736.8	680.4	319.4
62	922.2	73.8	79.4	77.7	71.4	74.3	52.5	38.5	45.4	52.2	617.3	541.0	863.2	856.2	317.0	260.6	434.2	475.0	737.9	681.8	331.7
63	924.7	74.5	80.1	78.4	71.5	75.1	53.1	38.7	45.2	53.0	629.2	544.7	868.3	851.4	326.6	265.4	438.8	478.3	740.5	682.6	347.4
64	925.1	75.3	80.7	79.1	71.7	75.8	52.7	39.3	45.3	52.8	640.6	547.3	869.8	850.2	337.1	270.1	443.3	481.6	742.0	683.5	363.7
65	927.6	76.1	81.3	79.8	71.9	76.7	53.0	38.7	44.1	53.0	652.6	549.1	875.2	852.2	348.5	274.6	448.1	485.2	743.3	684.1	381.2
66	929.3	77.1	82.0	80.5	72.3	77.5	52.4	39.3	44.7	53.1	664.1	550.8	877.7	852.7	360.5	278.9	453.0	489.1	744.7	685.0	399.3
67	930.4	77.8	82.7	81.3	72.5	78.4	53.2	39.5	45.0	52.3	676.1	553.0	881.5	854.3	372.8	283.3	458.4	493.6	746.5	685.9	419.5
68	933.6	78.7	83.3	82.0	72.9	79.4	53.2	39.7	45.0	53.5	687.0	554.7	884.0	850.1	385.5	288.0	464.7	498.1	749.0	686.6	442.1
69	935.5	79.7	84.0	82.7	73.4	80.3	52.9	40.0	44.7	53.1	697.4	555.9	885.4	850.8	398.7	292.6	471.7	503.2	752.3	687.0	467.4
70	935.9	80.9	84.8	83.5	73.9	81.4	53.6	40.3	45.7	53.4	705.9	558.2	886.1	854.0	412.9	297.5	479.6	509.2	755.1	687.5	483.5
71	938.1	82.3	85.7	84.5	74.5	82.3	54.2	40.8	45.0	53.5	710.6	561.7	884.8	853.4	426.3	303.1	488.0	516.6	755.8	687.8	518.0
72	939.0	83.7	86.6	85.4	75.1	83.5	54.0	40.4	44.4	53.9	718.3	563.4	886.4	848.2	440.1	309.7	500.6	525.4	761.0	687.8	549.4
73	940.8	85.2	87.6	86.5	75.7	84.5	53.8	42.6	44.4	53.6	721.4	566.4	888.0	848.7	452.7	316.3	511.9	535.0	760.1	687.6	571.1
74	943.0	87.2	88.8	87.6	76.4	85.9	56.1	44.6	44.9	54.4	725.2	569.9	889.5	842.9	464.9	324.8	527.3	546.8	764.5	687.5	598.1
75	944.0	90.1	90.1	88.9	77.0	87.2	57.6	44.7	44.5	53.5	729.8	572.6	893.3	893.5	478.6	335.7	546.4	561.1	768.6	687.7	626.9
76	945.6	93.6	91.8	90.3	77.7	88.9	60.5	46.3	45.7	55.5	732.3	576.7	878.3	833.0	493.1	349.6	567.3	577.7	772.9	688.0	653.2
77	947.6	96.2	93.7	91.8	78.5	92.1	62.4	46.2	45.8	54.8	737.0	579.1	870.7	821.0	509.8	369.4	592.9	597.7	779.3	689.8	677.2
78	947.7	98.0	95.6	93.7	79.4	95.4	63.7	46.6	45.3	54.4	738.7	582.8	863.4	816.4	526.0	388.5	611.3	614.7	780.5	690.9	691.0
79	949.6	99.2	97.5	96.0	80.6	98.1	64.2	47.8	45.9	54.0	742.8	586.6	853.8	809.8	543.7	411.2	628.7	632.4	782.4	693.1	701.9
80	951.1	100.0	99.4	98.3	81.9	100.1	67.3	48.4	46.0	54.9	746.2	591.3	847.2	803.0	561.6	436.3	648.5	650.6	786.6	696.9	713.0
81	952.6	101.0	101.3	99.9	83.5	101.9	69.4	48.5	47.9	55.7	749.1	596.8	838.9	797.9	577.6	459.1	661.7	665.1	788.8	699.9	721.2
82	953.8	101.8	102.8	101.1	85.2	103.6	72.6	51.8	49.1	55.7	749.7	604.2	826.5	793.4	590.0	478.0	670.7	675.4	789.5	701.3	726.2
83	955.7	102.5	104.0	101.8	87.4	104.9	73.8	51.2	49.9	56.0	749.9	613.3	819.5	790.8	604.4	500.8	684.4	688.9	794.2	706.1	733.6
84	959.1	103.0	105.0	102.3	89.8	106.1	75.6	53.7	51.7	57.5	751.2	623.4	814.1	789.4	616.4	524.8	697.1	702.5	786.1	712.4	737.6
85	958.6	103.4	105.7	102.6	92.1	106.9	76.4	53.7	50.8	58.1	754.1	630.3	811.9	789.5	634.0	555.2	714.1	717.8	801.2	722.8	746.7
86	960.1	103.6	106.3	103.0	94.0	107.7	76.3	53.5	51.4	58.7	753.5	638.0	804.4	785.9	640.7	572.3	718.9	723.8	788.7	725.8	747.7
87	962.2	104.0	106.8	103.5	95.6	108.2	78.1	54.1	52.5	59.7	754.2	647.0	801.2	785.4	650.9	592.0	727.5	732.6	800.0	731.7	752.8
88	962.7	104.3	107.3	103.9	96.8	108.7	78.5	54.1	53.7	61.2	756.1	655.0	800.1	786.5	661.8	611.2	738.6	740.9	802.8	738.4	759.3
89	965.1	104.7	107.7	104.2	97.8	109.2	80.9	54.7	55.2	61.1	756.6	661.3	794.4	782.6	667.5	621.7	738.5	741.1	800.8	737.0	760.9
90	965.7	105.2	108.2	104.5	98.9	109.8	82.5	54.9	55.7	62.4	756.6	668.5	792.1	782.1	675.0	634.5	741.5	745.8	800.8	740.5	763.9
91	967.4	105.6	108.8	104.7	99.7	110.5	83.1	55.9	57.4	62.7	756.2	676.5	790.4	782.4	682.6	645.9	745.2	748.7	801.2	742.2	767.2
92	968.3	106.3	109.5	104.9	100.6	111.3	85.3	56.7	59.2	65.5	757.3	683.8	790.5	784.9	692.0	659.9	751.3	754.5	802.8	747.8	771.8
93	969.4	107.2	110.4	105.2	101.4	112.2	87.0	55.9	59.4	65.2	758.8	691.7	792.0	788.2	701.3	672.4	756.5	760.0	804.0	752.6	775.4
94	971.3	108.0	111.4	105.5	101.9	113.2	87.4	56.5	59.6	66.6	764.5	702.2	796.8	798.1	716.8	693.8	771.1	773.7	812.2	766.8	785.0
95	972.3	108.9	112.4	105.9	102.4	114.1	88.3	56.2	60.4	67.3	864.0	734.4	858.0	851.5	805.9	769.5	833.3	833.6	862.9	829.7	836.5
96	973.9	109.8	113.5	106.3	102.6	115.0	89.8	56.2	60.1	65.9	913.2	825.4	904.8	898.1	892.2	844.5	883.4	881.9	916.8	877.8	898.5
97	975.6	110.8	114.8	106.9	103.1	116.0	92.0	58.2	61.9	69.6	917.4	856.1	922.9	906.7	907.8	861.1	894.0	889.9	921.5	882.9	908.5
98	976.3	111.9	116.0	107.7	103.6	117.3	94.1	57.9	63.8	69.3	925.9	874.1	927.9	908.3	920.0	863.9	893.8	893.1	918.6	883.5	908.9
99	976.8	113.1	117.5	108.7	104.1	118.9	96.7	60.2	64.3	71.9	920.8	877.9	925.1	893.2	917.3	836.8	887.4	883.6	911.5	886.4	894.6
100	977.5	114.3	119.0	109.8	104.6	121.1	96.0	58.6	64.9	71.6	918.3	886.4	919.5	880.0	919.7	821.0	879.9	880.3	904.9	849.7	882.7
101	978.6	115.5	120.4	110.7	105.1	123.9	99.4	59.6	64.2	72.6	920.7	907.5	922.9	879.2	923.9	834.4	876.0	892.0	905.8	920.5	877.0
102	980.6	116.6	122.0	111.8	105.7	127.9	97.8	58.3	63.0	72.2	920.7	908.4	917.2	877.0	924.2	838.0	854.1	894.3	908.0	923.3	873.3
103	981.9	117.9	123.7	112.8	106.5	133.9	101.3	59.3	64.3	74.7	918.4	905.6	907.9	879.0	921.2	836.3	912.3	904.5	922.1	869.6	
104	982.4	119.4	125.7	114.0	107.3	138.0	104.2	60.3	66.5	75.6	911.9	914.8	900.1	878.5	909.5	820.0	828.2	919.3	902.1	912.4	959.9
105	983.3	121.6	128.3	115.2	108.5	144.8	108.3	61.7	67.3	76.2	909.2	924.3	894.7	880.9	901.5	801.5	866.3	917.2	900.9	912.9	858.1
106	984.6	124.4	131.8	116.6	109.7	159.4	112.4	62.4	69.2	77.2	905.6	921.3	889.2	877.8	893.1	780					

Table 41. Temperatures Measured in Assembly S-47, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (wet) (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
0	31.2	24.8	26.3	26.0	24.9	24.5	***	***	24.6	24.2	***	***	24.4	24.1	***	***	24.4	24.1
1	301.8	24.8	27.9	26.5	24.9	24.5	***	***	24.6	24.2	***	***	24.4	24.1	***	***	24.4	24.1
2	411.3	24.8	66.3	55.4	24.9	24.5	***	***	24.6	24.2	***	***	24.4	24.1	***	***	24.4	24.1
3	479.6	25.8	88.0	83.6	25.0	24.7	***	***	24.5	24.2	***	***	24.4	24.1	***	***	24.4	24.1
4	532.4	28.9	91.4	87.9	29.5	27.3	***	***	24.5	24.2	***	***	24.4	24.1	***	***	24.4	24.1
5	563.8	33.7	94.2	91.3	45.5	35.9	***	***	24.6	24.3	***	***	24.8	24.2	***	***	24.5	24.2
6	592.2	39.3	98.7	95.1	58.1	47.4	***	***	25.2	24.4	***	***	26.6	25.1	***	***	25.2	24.8
7	617.1	44.6	104.8	100.8	64.5	54.6	***	***	26.9	25.4	***	***	30.0	26.9	***	***	26.4	25.8
8	642.4	49.2	110.1	106.1	68.4	58.6	***	***	29.8	27.2	***	***	34.6	29.5	***	***	28.2	27.1
9	660.2	52.7	114.3	110.5	70.9	61.7	***	***	32.9	29.4	***	***	39.4	32.8	***	***	30.4	28.9
10	675.8	55.6	117.7	114.2	73.5	64.2	***	***	35.9	31.6	***	***	43.8	36.0	***	***	33.0	30.8
11	688.1	58.2	121.1	117.2	75.6	67.1	***	***	38.8	33.8	***	***	47.7	39.2	***	***	35.6	32.9
12	699.6	60.6	125.3	121.1	77.4	69.4	***	***	41.7	35.8	***	***	51.3	42.4	***	***	38.3	35.1
13	711.9	63.0	130.7	125.7	79.1	71.7	***	***	44.3	37.8	***	***	54.5	45.4	***	***	41.1	37.3
14	724.3	64.6	142.2	140.6	80.2	73.4	***	***	46.9	39.6	***	***	57.5	48.4	***	***	43.7	39.3
15	736.4	65.1	181.6	179.9	79.3	73.5	***	***	49.4	41.6	***	***	59.9	50.9	***	***	46.0	41.1
16	745.6	67.3	231.2	230.2	80.3	73.8	***	***	51.6	43.4	***	***	61.1	52.7	***	***	48.1	43.2
17	754.2	72.6	307.4	319.2	86.2	78.5	***	***	53.4	45.4	***	***	62.7	54.3	***	***	50.9	46.9
18	763.1	76.8	376.3	380.9	84.9	81.1	***	***	55.4	47.3	***	***	65.8	57.1	***	***	54.0	51.3
19	771.2	79.4	423.7	432.5	85.6	82.0	***	***	57.4	49.1	***	***	67.5	59.9	***	***	56.7	55.3
20	780.0	81.9	463.4	474.2	85.7	83.3	***	***	59.2	51.1	***	***	68.9	62.1	***	***	58.9	58.6
21	786.0	85.6	499.7	509.7	85.8	84.7	***	***	60.9	53.2	***	***	69.7	64.0	***	***	60.8	61.6
22	791.7	90.1	536.2	541.4	86.9	86.0	***	***	62.4	55.5	***	***	70.4	65.7	***	***	62.8	65.5
23	798.1	95.1	569.0	566.9	87.1	87.7	***	***	63.9	57.8	***	***	71.1	67.2	***	***	64.7	68.8
24	804.1	100.9	596.2	585.9	88.3	90.2	***	***	65.3	59.9	***	***	71.7	68.6	***	***	66.6	71.6
25	810.2	108.0	619.1	599.0	90.7	94.1	***	***	66.9	61.9	***	***	72.5	70.1	***	***	68.7	74.0
26	815.3	115.7	638.8	607.8	94.1	100.4	***	***	68.2	63.4	***	***	73.6	71.4	***	***	71.3	76.1
27	819.1	124.2	654.7	611.6	101.3	107.9	***	***	69.3	64.6	***	***	74.6	72.5	***	***	73.8	78.2
28	823.2	132.5	667.7	612.4	116.4	114.8	***	***	70.1	65.4	***	***	75.7	73.5	***	***	76.1	79.9
29	828.4	140.5	678.7	611.9	134.2	121.3	***	***	70.9	66.4	***	***	76.8	74.3	***	***	77.7	80.7
30	834.2	148.4	688.6	616.2	153.3	128.2	***	***	71.7	67.5	***	***	77.9	75.1	***	***	78.9	81.4
31	837.3	156.0	698.0	614.1	169.7	136.3	***	***	72.6	68.5	***	***	79.0	75.9	***	***	79.7	82.0
32	840.7	163.0	706.9	618.7	183.5	146.7	***	***	73.4	69.5	***	***	79.8	76.7	***	***	80.3	82.8
33	844.8	169.1	711.9	628.9	194.5	157.1	***	***	74.3	70.7	***	***	80.5	77.3	***	***	81.0	83.8
34	849.1	174.8	715.5	637.6	202.6	167.9	***	***	75.4	71.7	***	***	81.8	78.0	***	***	82.1	84.7
35	852.9	180.0	720.4	643.2	211.2	176.6	***	***	76.5	72.7	***	***	84.3	78.8	***	***	83.5	85.4
36	856.2	184.9	722.7	649.6	220.6	182.7	***	***	77.7	73.9	***	***	87.3	79.9	***	***	85.1	86.0
37	859.6	189.6	723.3	662.7	229.9	188.5	***	***	79.2	75.0	***	***	90.2	81.7	***	***	86.8	86.7
38	863.8	194.1	722.8	662.6	241.1	193.7	***	***	80.9	76.1	***	***	92.5	84.5	***	***	88.5	88.0
39	865.9	198.0	723.7	672.4	254.0	198.9	***	***	82.9	77.6	***	***	94.3	87.2	***	***	90.1	89.7
40	868.8	201.6	725.2	678.1	268.8	204.5	***	***	85.0	79.3	***	***	95.7	88.7	***	***	91.7	91.2
41	871.9	205.0	726.4	684.2	283.8	210.9	***	***	87.1	81.3	***	***	96.9	91.6	***	***	93.2	92.4
42	874.7	208.3	728.3	680.9	297.9	218.5	***	***	89.0	83.6	***	***	97.8	93.2	***	***	94.3	93.4
43	877.8	211.7	730.3	696.2	314.1	224.9	***	***	90.7	86.0	***	***	98.6	94.5	***	***	95.2	94.2
44	881.6	215.1	731.9	688.4	329.1	234.1	***	***	92.0	88.1	***	***	99.2	95.8	***	***	95.9	94.7
45	884.6	218.3	734.0	694.1	344.1	240.7	***	***	93.1	89.9	***	***	99.8	96.9	***	***	96.4	94.9
46	887.4	221.3	735.2	697.0	358.3	246.9	***	***	93.9	91.1	***	***	100.3	97.8	***	***	96.7	95.2
47	889.7	224.4	736.2	695.9	370.8	253.1	***	***	94.6	92.1	***	***	100.8	98.5	***	***	97.1	95.4
48	891.5	227.3	737.7	697.4	381.3	259.9	***	***	95.3	93.0	***	***	101.3	99.1	***	***	97.4	95.5
49	893.8	230.1	740.3	699.8	393.8	266.6	***	***	95.9	93.7	***	***	101.8	99.7	***	***	97.8	95.9
50	895.7	233.0	744.6	705.0	406.4	274.1	***	***	96.5	94.4	***	***	102.3	100.2	***	***	98.4	96.2
51	898.1	235.8	747.8	701.4	417.7	280.6	***	***	97.1	95.0	***	***	103.0	100.7	***	***	98.7	98.5
52	901.0	238.6	752.3	703.6	431.7	287.5	***	***	97.6	95.5	***	***	103.7	101.2	***	***	99.2	97.0
53	903.2	241.5	756.8	705.7	446.3	294.7	***	***	98.2	96.1	***	***	104.5	101.9	***	***	99.8	97.4
54	905.3	244.4	762.0	703.5	462.6	301.6	***	***	98.7	96.5	***	***	105.5	102.6	***	***	100.5	98.0
55	906.9	247.3	764.2	701.9	473.5	308.4	***	***	99.3	97.0	***	***	106.6	103.3	***	***	101.0	98.6
56	909.4	250.3	760.1	701.8	487.2	314.9	***	***	99.9	97.5	***	***	107.8	104.0	***	***	101.8	99.2
57	912.5	253.4	766.4	702.7	504.5	322.3	***	***	100.5	97.9	***	***	109.3	104.8	***	***	102.5	99.9

Table 41. Temperatures Measured in Assembly S-47, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (wet) (Cont.)

Time (min)	T(Fav) (°C)	Temperature at Thermocouple Number																
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
58	914.2	256.4	772.9	701.2	518.1	328.9	***	***	101.1	98.3	***	***	111.1	105.5	***	***	103.2	100.6
59	916.3	259.4	777.4	697.0	529.0	334.3	***	***	101.8	98.7	***	***	113.0	106.5	***	***	103.9	101.4
60	918.1	262.5	771.6	697.8	540.0	339.2	***	***	102.6	99.1	***	***	114.9	107.3	***	***	104.7	102.1
61	920.1	265.7	726.7	704.3	545.2	343.6	***	***	103.4	99.5	***	***	116.9	108.2	***	***	105.4	102.9
62	922.2	268.9	718.0	705.5	557.1	348.7	***	***	104.2	99.9	***	***	118.7	109.2	***	***	106.3	103.6
63	924.7	272.5	717.5	703.9	573.9	353.9	***	***	105.1	100.3	***	***	120.4	110.1	***	***	107.2	104.3
64	925.1	276.2	714.6	701.3	568.9	358.7	***	***	106.1	100.8	***	***	122.5	111.1	***	***	108.2	105.0
65	927.6	280.1	713.2	705.8	605.8	364.6	***	***	107.1	101.3	***	***	124.7	112.1	***	***	109.0	105.8
66	929.3	284.2	714.0	708.0	624.8	370.2	***	***	108.2	101.8	***	***	127.1	113.1	***	***	109.9	106.5
67	930.4	289.0	717.8	710.2	646.6	376.2	***	***	109.4	102.4	***	***	131.3	114.3	***	***	110.9	107.3
68	933.6	294.6	722.9	711.3	667.5	382.2	***	***	110.6	103.0	***	***	137.9	115.5	***	***	112.1	108.1
69	933.5	301.7	727.2	713.6	687.8	388.2	***	***	112.0	103.7	***	***	145.4	116.7	***	***	113.1	108.9
70	935.9	310.2	728.5	717.2	702.7	394.4	***	***	113.5	104.4	***	***	159.5	118.2	***	***	114.6	109.8
71	938.1	320.0	726.4	724.2	709.6	400.5	***	***	115.2	105.1	***	***	182.7	119.9	***	***	116.2	110.7
72	939.0	335.2	729.6	726.4	720.7	408.8	***	***	117.0	105.8	***	***	211.8	121.6	***	***	117.9	111.7
73	940.8	349.7	726.2	734.3	719.2	414.0	***	***	119.1	106.5	***	***	239.4	123.6	***	***	119.9	112.9
74	943.0	369.5	726.9	736.9	717.1	422.0	***	***	121.0	107.2	***	***	247.8	126.1	***	***	122.3	114.3
75	944.0	394.8	734.3	741.6	714.5	429.8	***	***	123.6	107.8	***	***	259.7	126.9	***	***	125.1	115.8
76	945.6	424.3	739.9	746.6	711.4	440.0	***	***	127.3	108.7	***	***	271.7	132.1	***	***	128.3	117.7
77	947.6	460.8	748.9	745.6	712.5	453.1	***	***	132.3	109.6	***	***	283.5	135.9	***	***	131.8	119.8
78	947.7	488.2	752.8	750.9	717.1	464.0	***	***	137.0	110.7	***	***	295.9	141.9	***	***	134.7	122.3
79	949.6	516.6	757.8	755.9	713.6	476.0	***	***	142.6	111.8	***	***	307.4	149.8	***	***	137.1	124.9
80	951.1	544.4	761.9	756.2	720.2	490.4	***	***	155.3	113.2	***	***	318.4	160.2	***	***	140.5	127.6
81	952.6	566.6	763.3	759.8	724.2	503.5	***	***	172.9	114.6	***	***	330.5	172.1	***	***	145.9	130.5
82	953.8	583.1	761.1	762.2	724.5	514.5	***	***	186.8	116.4	***	***	343.0	183.6	***	***	151.5	133.5
83	955.7	603.0	764.3	765.7	728.3	529.7	***	***	194.1	118.6	***	***	355.2	193.3	***	***	157.5	136.7
84	958.1	623.1	764.7	769.6	731.6	546.1	***	***	200.3	121.3	***	***	366.2	202.1	***	***	163.2	140.4
85	958.6	648.4	772.2	769.6	739.6	568.9	***	***	207.0	124.4	***	***	376.7	210.9	***	***	171.0	145.0
86	960.1	659.0	768.4	769.4	742.3	583.0	***	***	215.2	128.0	***	***	386.5	219.9	***	***	178.2	148.6
87	962.2	672.6	770.7	768.1	747.6	600.9	***	***	223.7	132.1	***	***	396.1	229.2	***	***	186.2	153.7
88	962.7	686.3	775.2	771.8	755.7	618.0	***	***	230.9	137.2	***	***	404.8	238.2	***	***	194.8	157.8
89	965.1	689.7	775.0	769.3	760.5	628.5	***	***	236.7	142.4	***	***	413.0	246.3	***	***	202.8	162.3
90	965.7	697.5	776.3	771.4	764.1	638.6	***	***	241.8	147.6	***	***	420.8	253.7	***	***	210.1	167.4
91	967.4	703.3	780.2	771.0	769.9	645.9	***	***	246.8	152.6	***	***	428.9	260.4	***	***	217.5	173.4
92	968.3	712.3	785.2	774.3	774.5	657.1	***	***	251.8	156.3	***	***	437.4	266.5	***	***	225.4	178.7
93	969.4	719.7	788.7	774.3	778.0	667.3	***	***	257.0	159.3	***	***	447.1	272.8	***	***	234.3	184.0
94	971.3	736.3	799.0	778.2	789.0	685.4	***	***	262.6	162.4	***	***	457.3	278.7	***	***	244.8	189.2
95	972.3	806.4	865.3	829.9	837.5	793.3	***	***	268.0	165.8	***	***	468.2	285.0	***	***	256.5	194.0
96	973.9	865.6	915.7	872.2	890.0	824.1	***	***	275.4	168.7	***	***	479.3	292.7	***	***	268.6	198.6
97	975.6	874.6	934.5	891.0	890.9	854.3	***	***	288.7	172.4	***	***	490.5	302.0	***	***	280.8	203.2
98	976.3	881.5	943.4	903.5	878.3	870.0	***	***	308.3	177.0	***	***	502.1	319.7	***	***	293.4	208.0
99	976.8	837.9	929.5	900.8	874.6	867.4	***	***	334.5	183.1	***	***	513.9	328.4	***	***	306.6	213.3
100	977.5	816.3	912.7	891.1	877.2	866.1	***	***	359.6	189.2	***	***	524.5	344.5	***	***	321.1	218.9
101	978.6	833.2	905.1	894.1	889.4	870.9	***	***	378.1	196.5	***	***	533.9	361.8	***	***	336.5	224.8
102	980.6	843.1	891.7	901.6	885.5	885.1	***	***	393.7	204.1	***	***	543.0	379.4	***	***	351.6	230.9
103	981.9	827.2	872.9	905.2	887.5	892.0	***	***	410.1	213.1	***	***	552.6	397.8	***	***	367.7	237.7
104	982.4	793.8	855.6	902.3	878.6	891.9	***	***	424.4	221.9	***	***	562.3	413.6	***	***	383.8	245.1
105	983.3	755.3	846.1	909.0	851.6	887.9	***	***	435.3	230.4	***	***	572.0	430.3	***	***	398.1	253.2
106	984.6	722.4	835.8	908.2	851.5	872.4	***	***	445.4	237.1	***	***	581.8	446.4	***	***	411.5	261.6
107	986.6	727.5	844.3	931.6	846.3	884.7	***	***	454.7	243.1	***	***	592.4	459.0	***	***	424.1	270.6
108	987.7	724.0	833.2	921.5	864.8	870.9	***	***	464.2	250.0	***	***	604.7	474.5	***	***	436.5	280.3
109	988.5	699.0	829.7	900.8	867.4	842.3	***	***	473.6	258.2	***	***	618.3	492.7	***	***	449.8	290.7
110	989.2	703.1	827.0	889.5	874.2	842.6	***	***	482.2	267.3	***	***	632.3	510.3	***	***	464.3	301.5

Table 42. Average Temperatures Measured in Assembly S-47, Steel Stud, 1x2 Gypsum Board Layers, Cellulosic Fibre Insulation (wet)

Legend: BL - Base Layer, FL - Face Layer, Cav. - Cavity, SStd. - Steel Stud, WStd. - Wood Stud, Av - Average, Exp. - Exposed Side, UnExp. - Unexposed Side

Time (min)	T(Fav) (°C)	BL/Cav. (Exp.) Av(22,23)	BL/SStd. (Exp.) Av(12,13,16,19)	Mid SStd. Av(10,11,16,17)	BL/Cav. (UnExp.) Av(24,25)	BL/SStd. (UnExp.) Av(14,15,20,21)	BL/FL (UnExp.) Av(28,29,32,33,36,37)	UnExp. Av(1,2,3,4,5)
0	31.2	26.1	25.8	25.3	24.7	24.9	24.3	24.1
1	301.8	27.2	28.7	25.3	24.7	24.9	24.3	24.0
2	411.3	60.9	52.6	26.3	24.7	25.0	24.3	24.0
3	479.6	85.8	83.9	32.4	24.9	25.5	24.3	24.0
4	532.4	89.6	95.2	53.8	28.4	27.7	24.3	24.0
5	563.8	92.7	96.0	77.2	40.7	34.3	24.4	24.0
6	592.2	96.9	96.3	84.2	52.8	45.8	25.2	24.0
7	617.1	102.8	96.7	87.0	59.5	54.2	26.9	24.1
8	642.4	108.1	98.2	88.2	63.5	58.9	29.4	24.2
9	660.2	112.4	101.8	88.7	66.3	62.1	32.3	24.5
10	675.8	115.9	110.1	89.2	68.8	64.6	35.2	25.1
11	688.1	119.2	120.0	89.8	71.3	66.8	38.0	25.9
12	699.6	123.2	128.7	90.4	73.4	68.9	40.8	27.0
13	711.9	128.2	138.3	90.9	75.4	70.9	43.4	28.3
14	724.3	141.4	151.0	90.4	76.8	72.5	45.9	28.9
15	736.4	180.7	176.6	90.0	76.4	73.0	48.1	31.7
16	745.6	230.7	204.7	93.6	77.1	73.9	50.0	33.6
17	754.2	310.3	235.0	97.1	82.4	76.8	52.3	35.6
18	763.1	378.6	267.8	103.7	83.0	78.9	55.2	37.6
19	771.2	428.1	298.7	113.6	83.8	80.7	57.6	39.7
20	780.0	468.8	331.5	125.8	84.5	82.6	59.8	41.8
21	786.0	504.7	364.0	139.5	85.2	84.6	61.7	43.8
22	791.7	538.8	394.7	154.0	86.5	86.8	63.7	45.9
23	798.1	568.0	428.0	169.6	87.4	89.4	65.6	47.8
24	804.1	591.0	455.9	186.2	89.2	92.8	67.3	49.6
25	810.2	609.1	481.0	203.2	92.4	96.8	69.0	51.3
26	815.3	623.3	503.2	219.9	97.3	101.3	70.7	52.9
27	819.1	633.1	523.9	236.1	104.6	106.0	72.2	54.4
28	823.2	640.1	542.6	251.6	115.6	111.1	73.5	55.9
29	828.4	645.3	559.5	266.5	127.8	116.8	74.5	57.2
30	834.2	650.3	575.2	280.7	140.7	122.7	75.4	58.5
31	837.3	656.0	590.0	294.1	153.0	128.5	76.3	59.7
32	840.7	662.8	603.9	306.9	165.1	134.5	77.1	60.9
33	844.8	670.4	616.0	319.1	175.8	140.5	77.9	61.9
34	849.1	676.5	627.2	330.6	185.3	146.4	78.9	62.9
35	852.9	681.8	638.5	341.6	193.9	152.4	80.2	64.0
36	856.2	686.1	649.2	352.0	201.7	158.2	81.6	65.0
37	859.6	693.0	659.8	361.8	209.2	163.9	83.3	65.9
38	863.8	692.7	669.5	371.1	217.4	169.6	85.1	66.7
39	865.9	698.1	679.0	379.9	226.4	175.2	87.0	67.4
40	868.8	701.7	688.0	388.6	236.6	180.3	88.8	68.1
41	871.9	705.3	695.8	396.7	247.3	185.4	90.4	68.8
42	874.7	704.6	702.7	404.2	257.2	190.3	91.9	69.4
43	877.8	713.2	709.2	411.3	269.5	195.2	93.2	70.0
44	881.8	710.2	713.9	417.8	281.6	199.9	94.3	70.5
45	884.6	714.0	719.2	424.0	292.4	204.6	95.1	70.8
46	887.4	716.1	724.2	429.8	302.6	209.2	95.8	70.9
47	889.7	716.0	728.5	435.4	311.9	213.7	96.4	70.9
48	891.5	717.6	732.8	440.7	320.6	218.2	96.9	70.9
49	893.8	720.1	736.3	445.9	330.2	222.5	97.5	71.0
50	895.7	724.8	740.8	451.2	340.2	226.9	98.0	71.0
51	898.1	724.6	744.7	456.4	349.1	231.2	98.5	71.0
52	901.0	728.0	755.1	461.8	359.6	235.6	99.0	71.2
53	903.2	731.3	760.3	467.8	370.5	240.2	99.6	71.3
54	905.3	732.7	764.4	474.0	382.1	245.1	100.3	71.7
55	906.9	733.0	768.5	479.9	391.0	250.1	101.0	72.0
56	909.4	730.9	771.7	485.8	401.1	255.4	101.7	72.3
57	912.5	734.5	774.7	491.8	413.4	261.2	102.5	72.6

Table 43. Small-Scale Assembly Parameters and Fire Test Results

Assembly Number	Stud Type	Stud Size (mm)	Stud Spacing (mm)	Gypsum Board Layers (Exp/U/nexp.)	Gypsum Board Thickness (mm)	Gypsum Board Type	Insulation Type	Insulation Thickness (mm)	Resilient Channel	Point Failure (min)	Average Failure (min)
S-09	Steel	90	600	1X1	12.7	X	***	***	***	46	46
S-22	Steel	90	600	1X1	12.7	X	GF	90	***	46	48
S-14	Steel	90	600	1X1	12.7	X	MF	40	***	69	72
S-15	Steel	90	600	1X1	12.7	X	CFI	90	***	69	71
S-10	Steel	90	600	1X2	12.7	X	***	***	***	86	86
S-23	Steel	90	600	1X2	12.7	X	GF	90	***	88	93
S-26	Steel	90	600	1X2	12.7	X	MF	90	***	114	117
S-18	Steel	90	600	1X2	12.7	X	CFI	90	***	134	135
S-12	Steel	90	600	2X2	12.7	X	***	***	***	129	129
S-25	Steel	90	600	2X2	12.7	X	GF	90	***	139	139
S-27	Steel	90	600	2X2	12.7	X	MF	90	***	160	162
S-21	Steel	90	600	2X2	12.7	X	CFI	90	***	157	163
S-41	Steel	90	600	1X2	15.9	X	***	***	***	136	136
S-42	Steel	90	600	1X2	15.9	X	MF	90	***	135	137
S-43	Steel	90	600	1X2	15.9	X	CFI	90	***	113	115
S-44	Steel	90	600	1X2	15.9	X	GF	90	***	133	137
S-10	Steel	90	600	1X2	12.7	X	***	***	***	86	86
S-46	Steel	90	600	1X2	12.7	X	CFI*	90	***	95	99
S-47	Steel	90	600	1X2	12.7	X	CFI*	40	***	108	110
S-18	Steel	90	600	1X2	12.7	X	CFI	90	***	134	135
S-31	Wood	89	400	1X2	12.7	X	***	***	E	96	96
S-28	Wood	89	400	1X2	12.7	X	GF	90	E	92	96
S-29	Wood	89	400	1X2	12.7	X	MF	90	E	125	129
S-30	Wood	89	400	1X2	12.7	X	CFI	90	E	164	165

X - Type X Gypsum Board (7.83 kg/m²)

E - Exposed Side

GF - Glass Fibre Insulation MF - Mineral Fibre Insulation CFI - Cellulosic Fibre Insulation (Blown Dry) CFI - Cellulosic Fibre Insulation (Wet Sprayed)

*** - Null Value

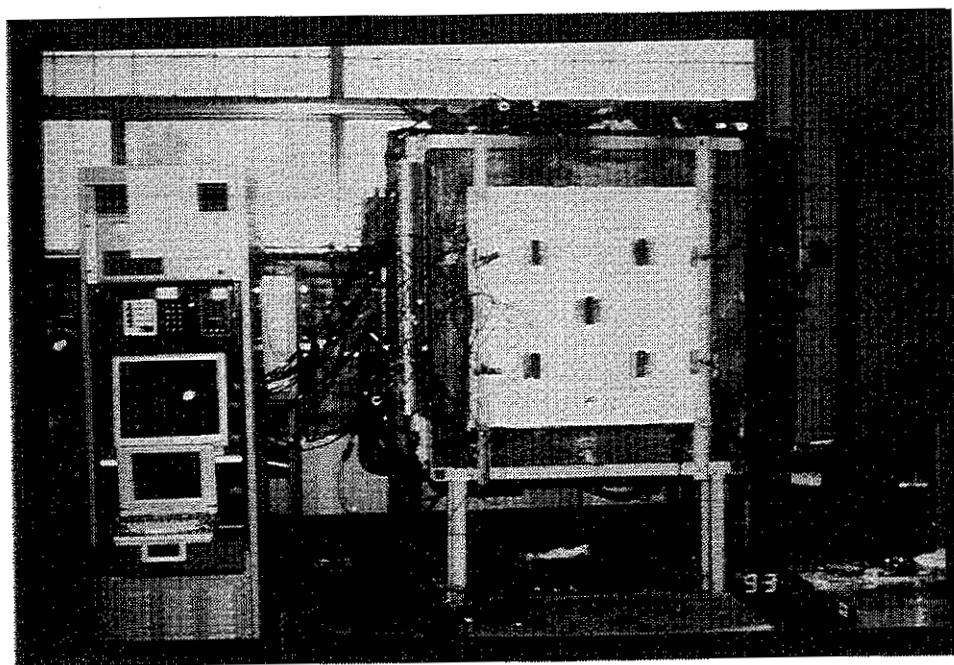


Figure 1. Small-Scale Test Assembly Furnace

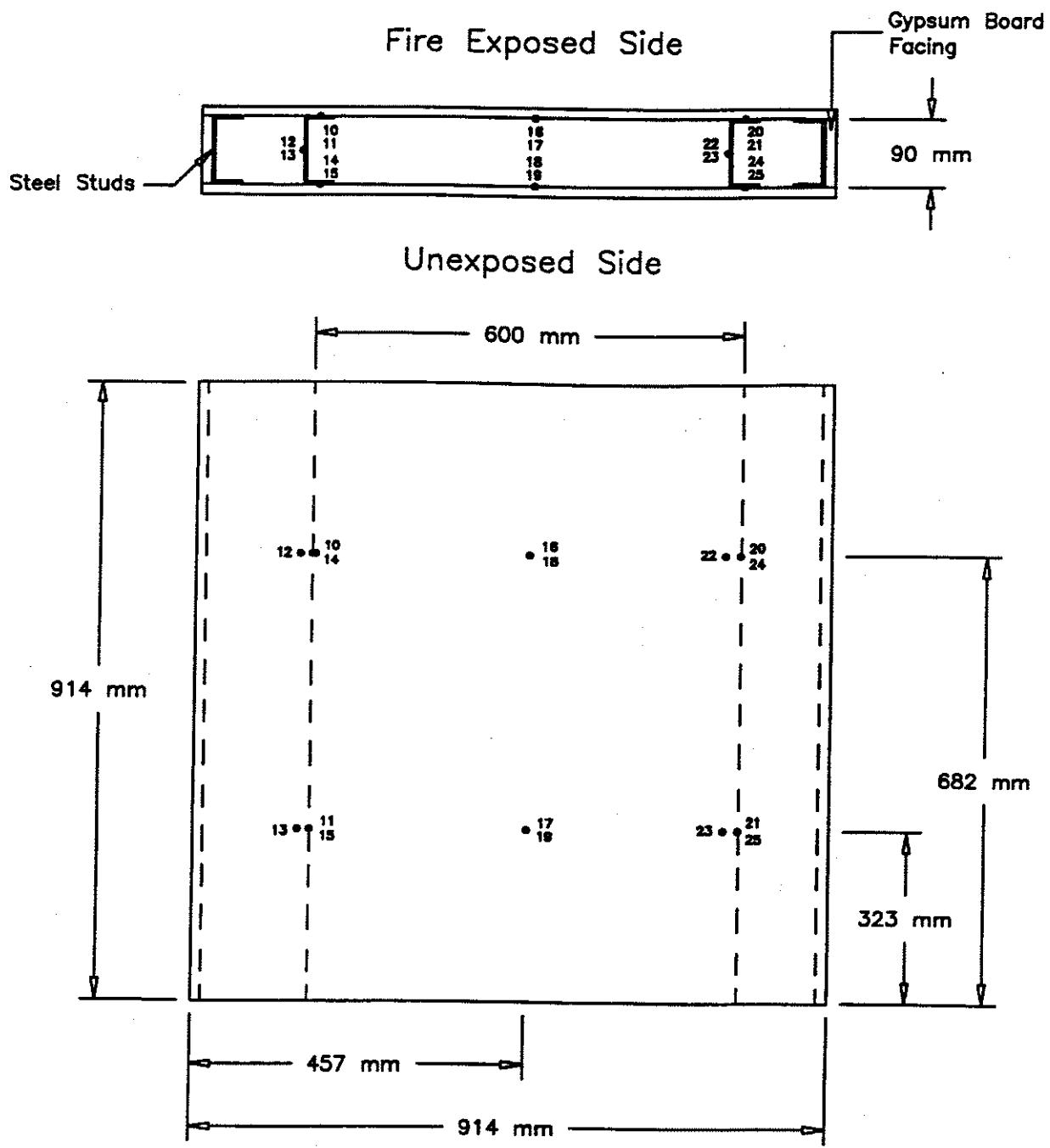
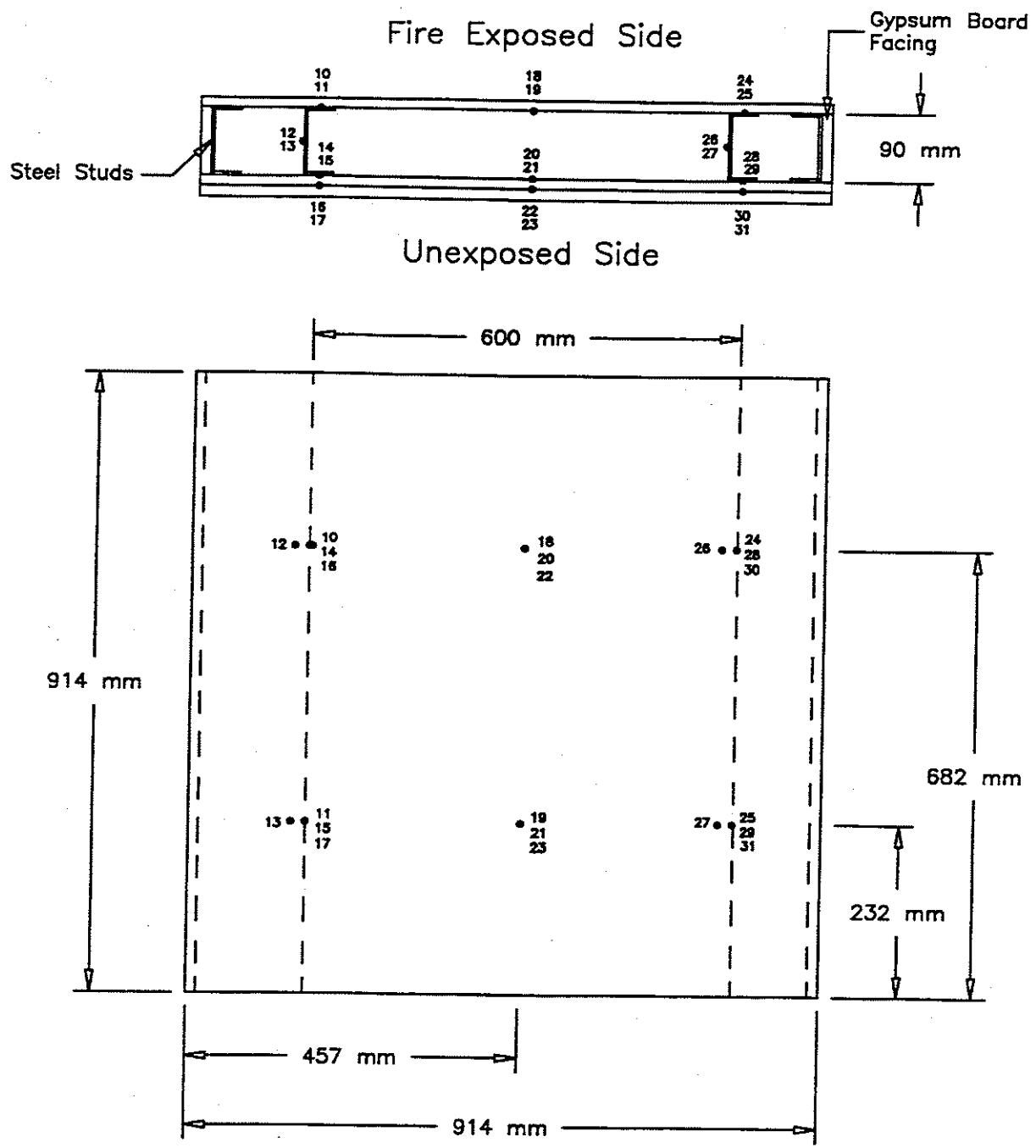
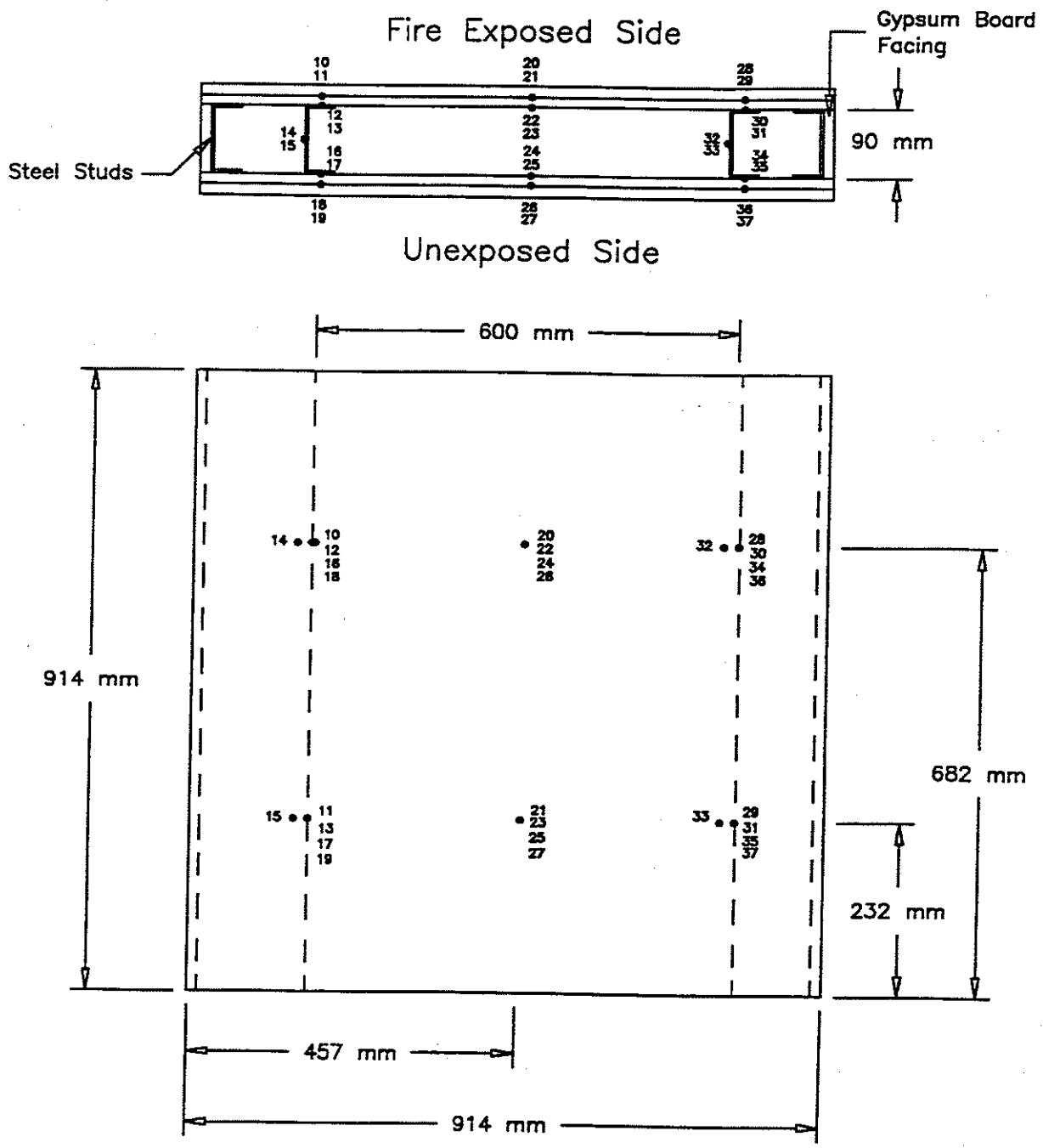


Figure 2. Thermocouple Locations in Small-Scale Test S-09



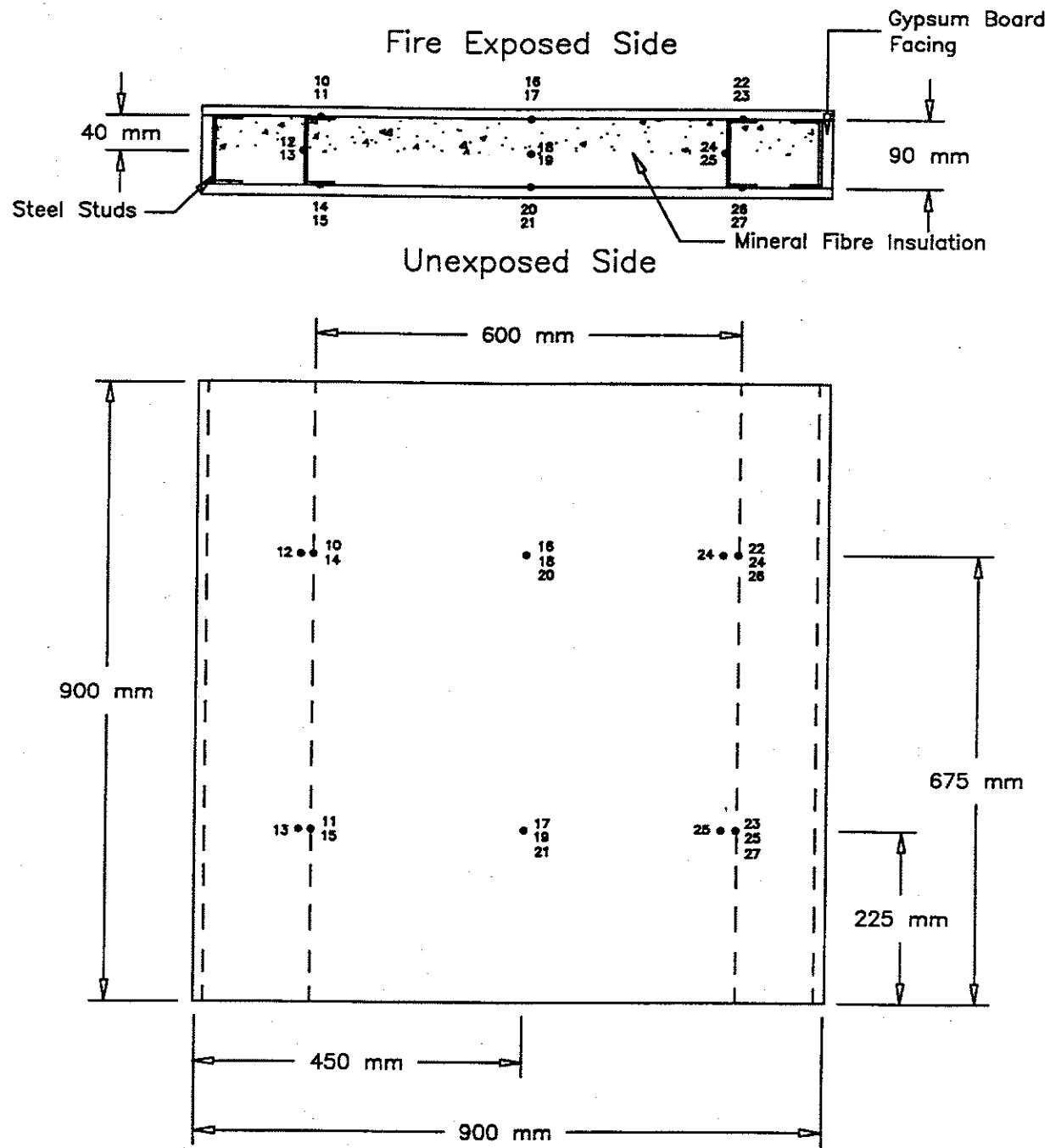
Drawing Not To Scale

Figure 3. Thermocouple Locations in Small-Scale Test S-10



Drawing Not To Scale

Figure 4. Thermocouple Locations in Small-Scale Test S-12



Drawing Not To Scale

Figure 5. Thermocouple Locations in Small-Scale Test S-14

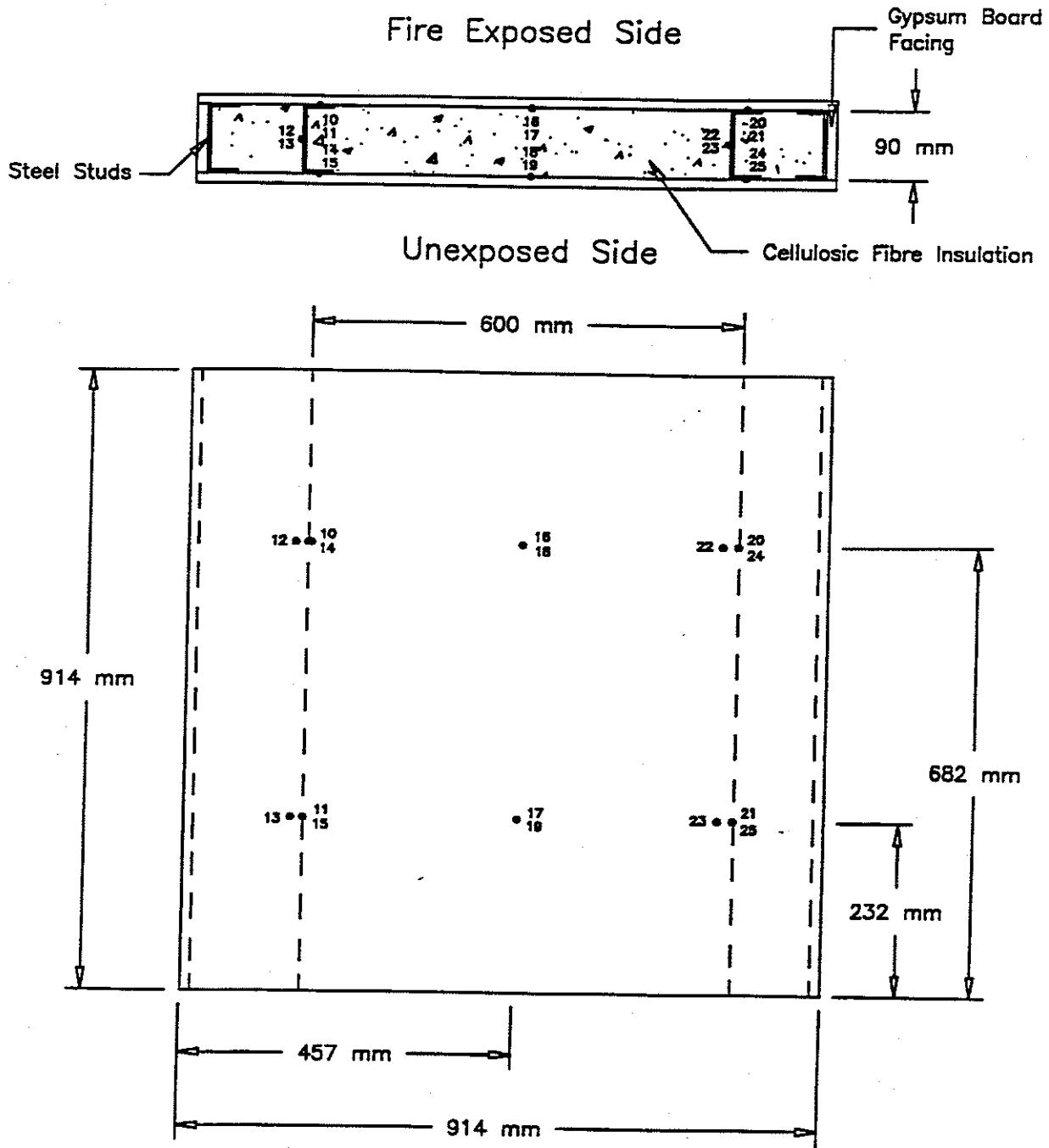
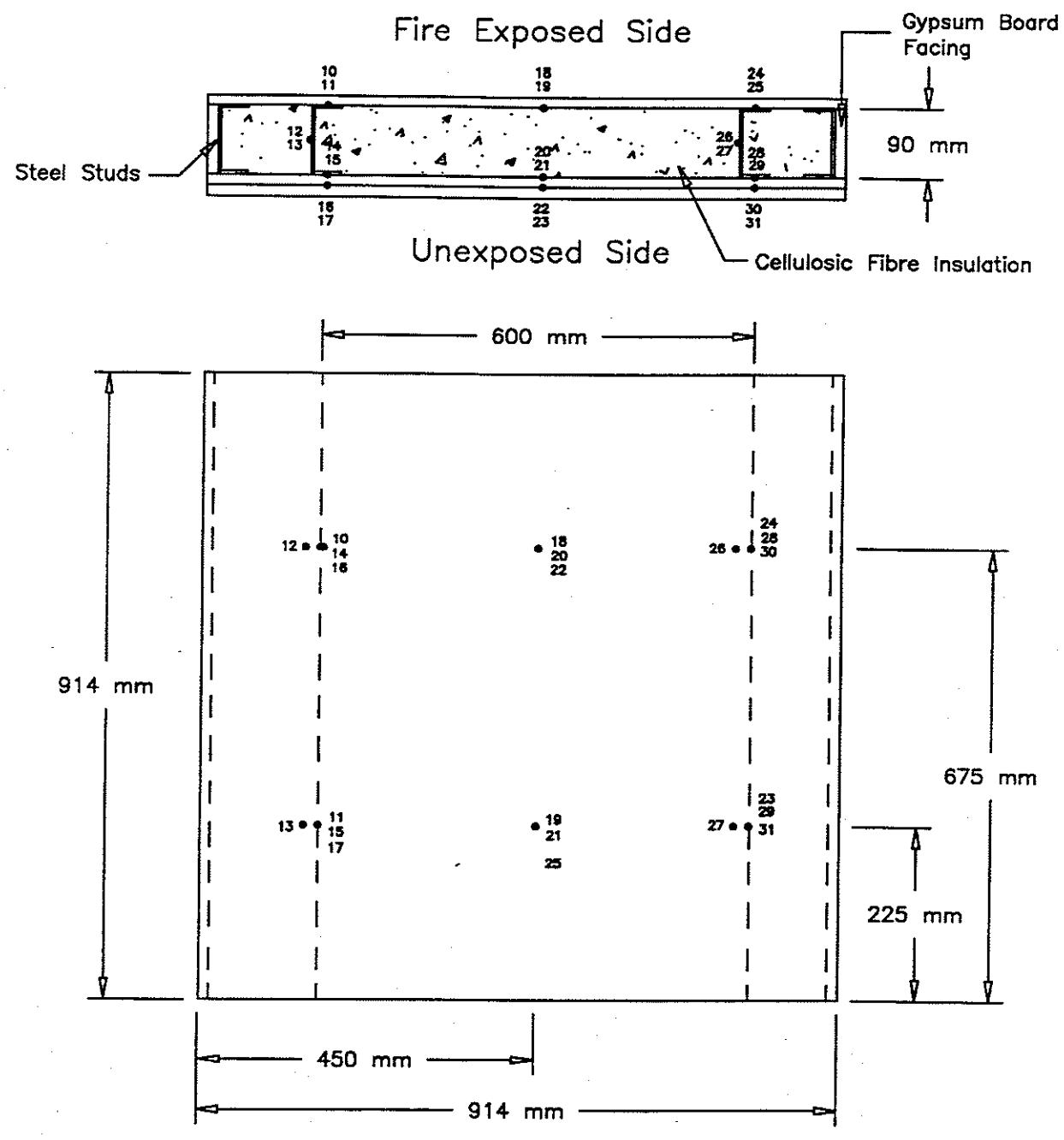


Figure 6. Thermocouple Locations in Small-Scale Test S-15



Drawing Not To Scale

Figure 7. Thermocouple Locations in Small-Scale Test S-18

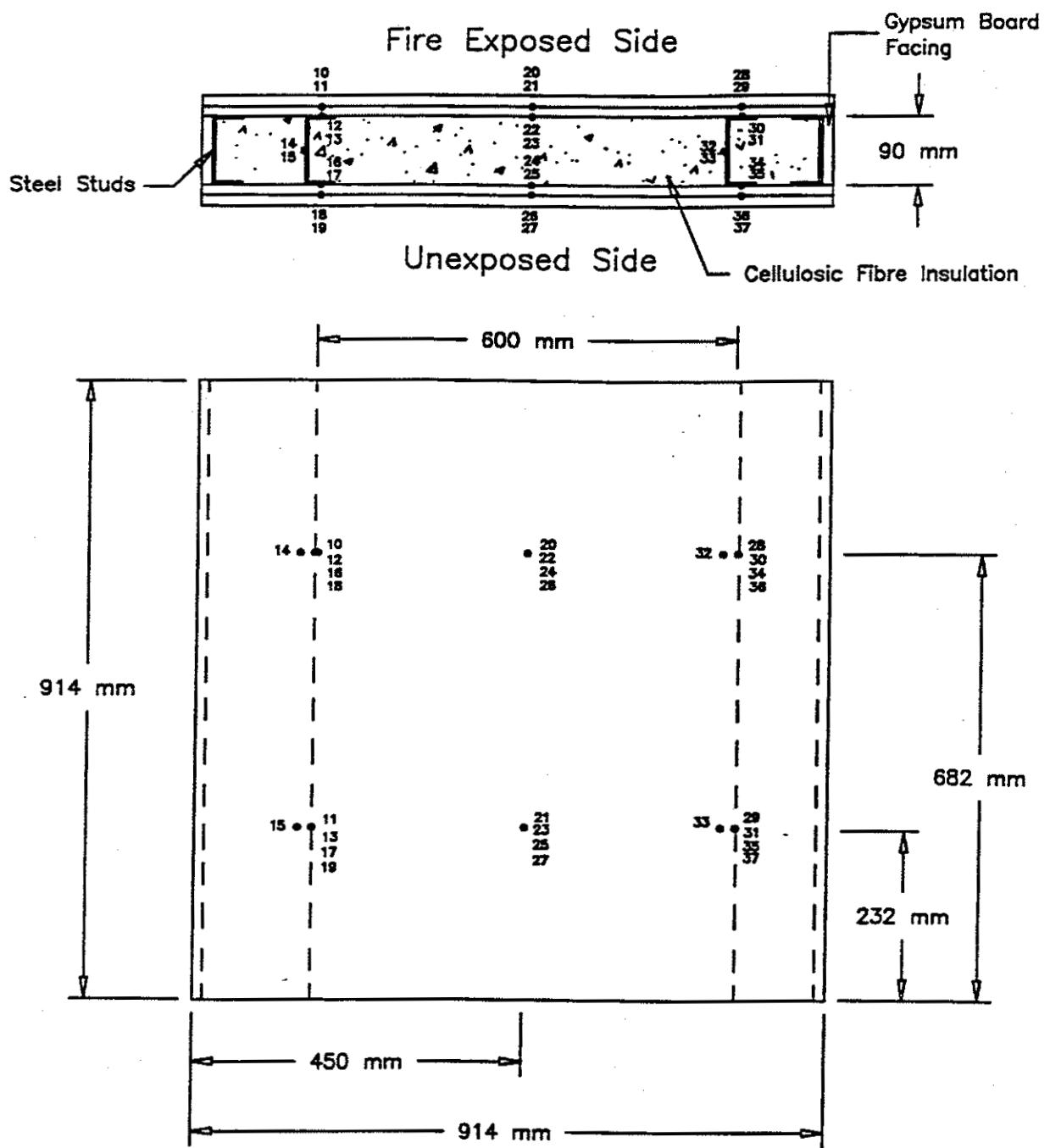
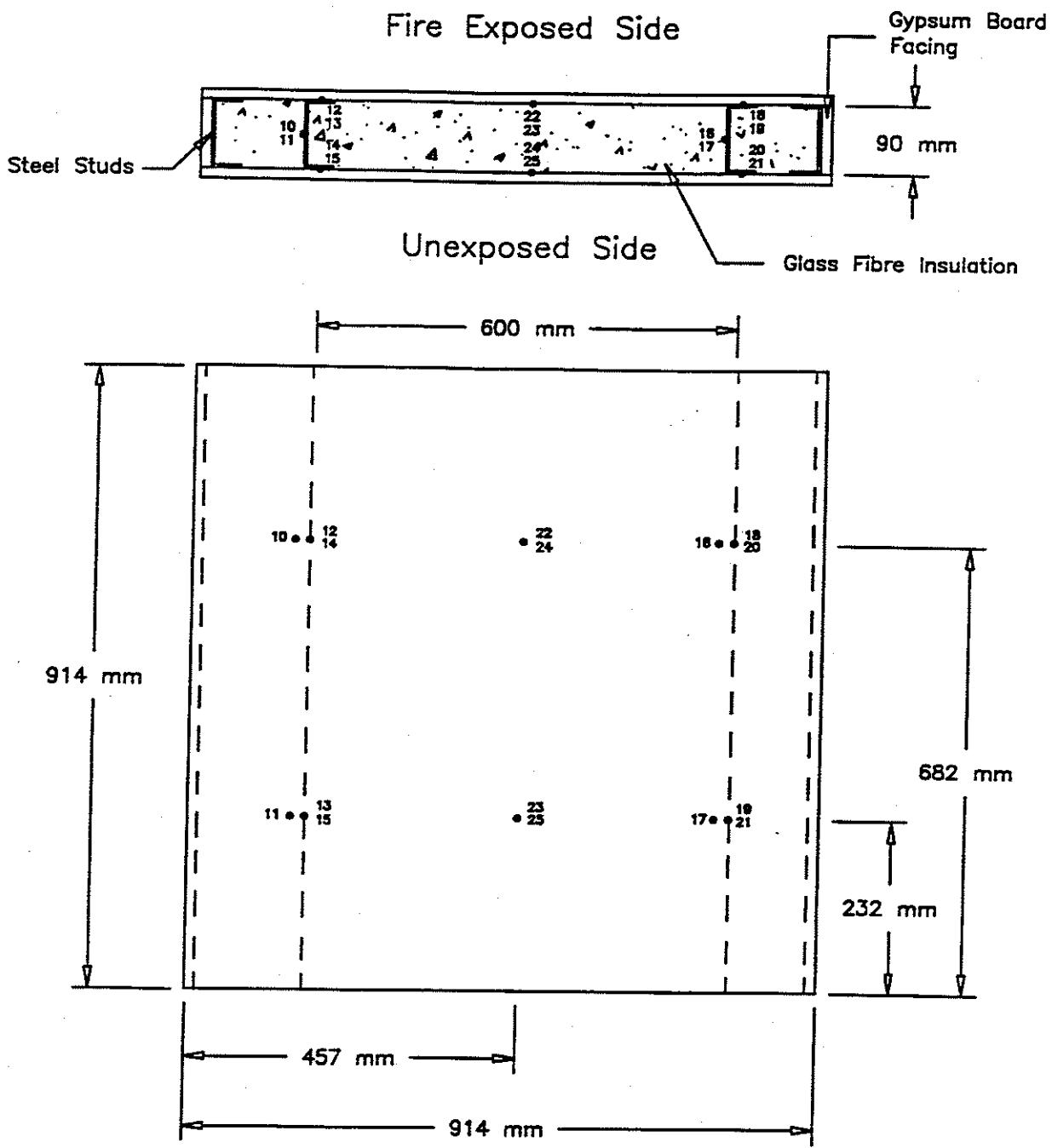


Figure 8. Thermocouple Locations in Small-Scale Test S-21



Drawing Not To Scale

Figure 9. Thermocouple Locations in Small-Scale Test S-22

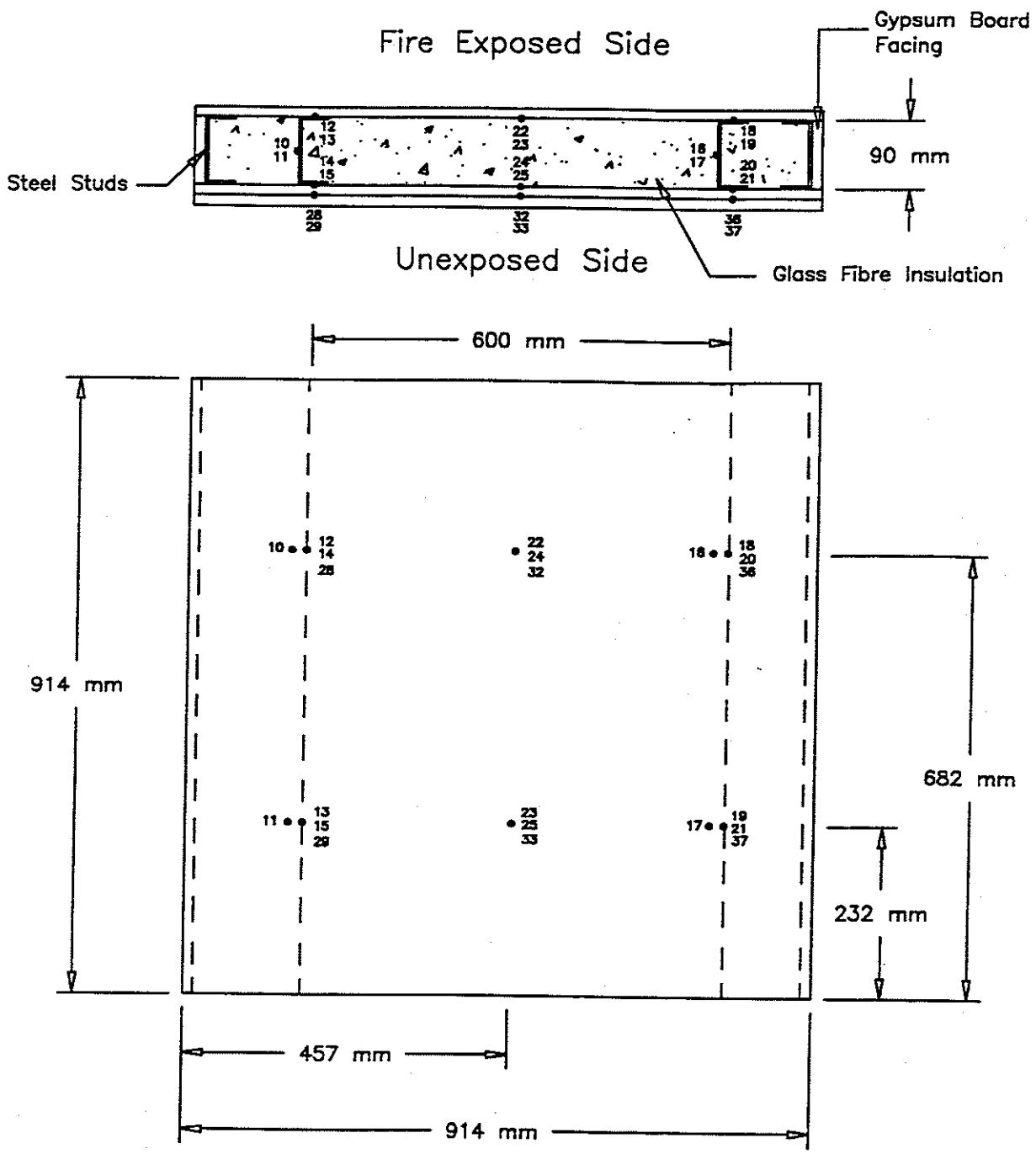
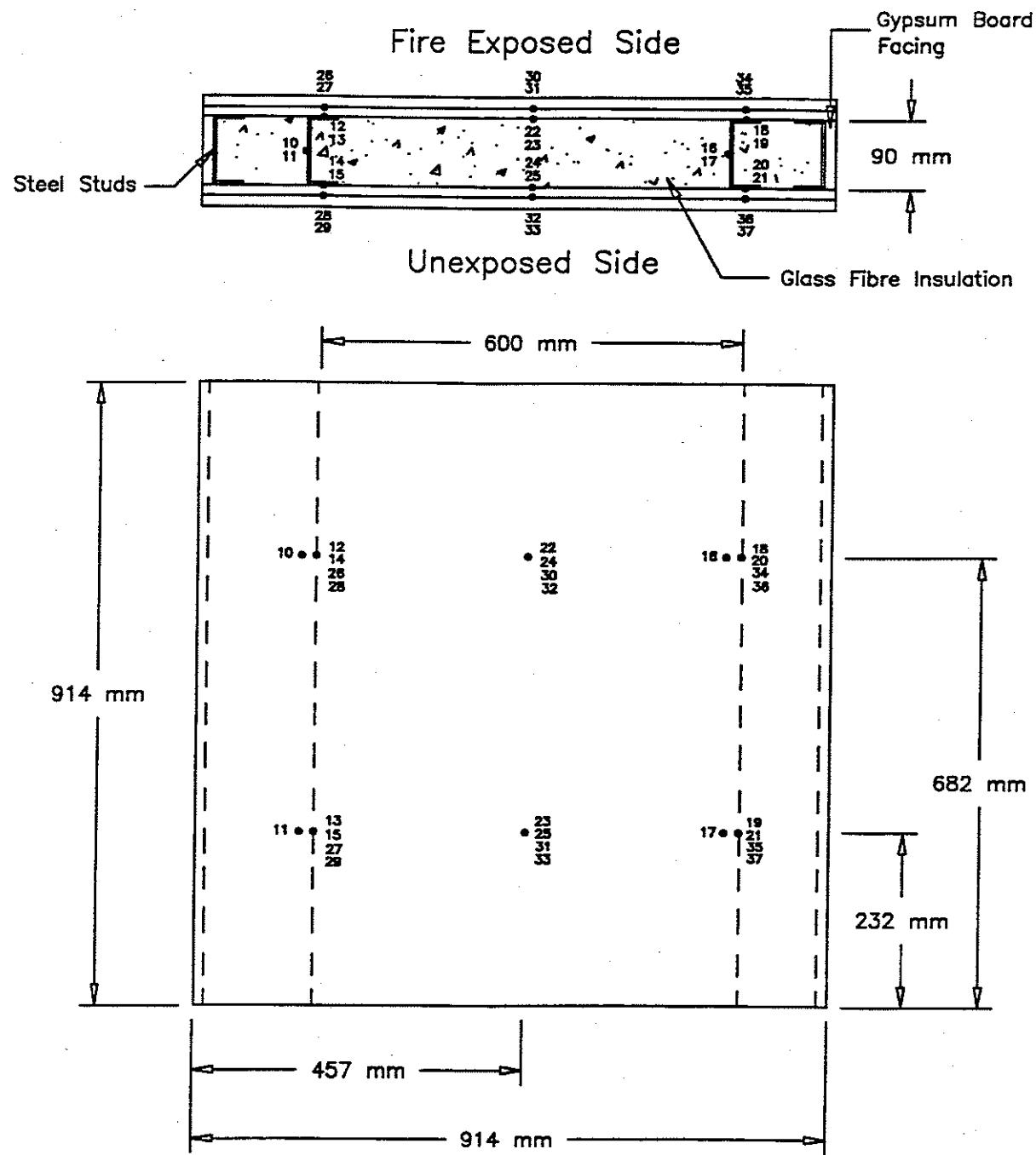
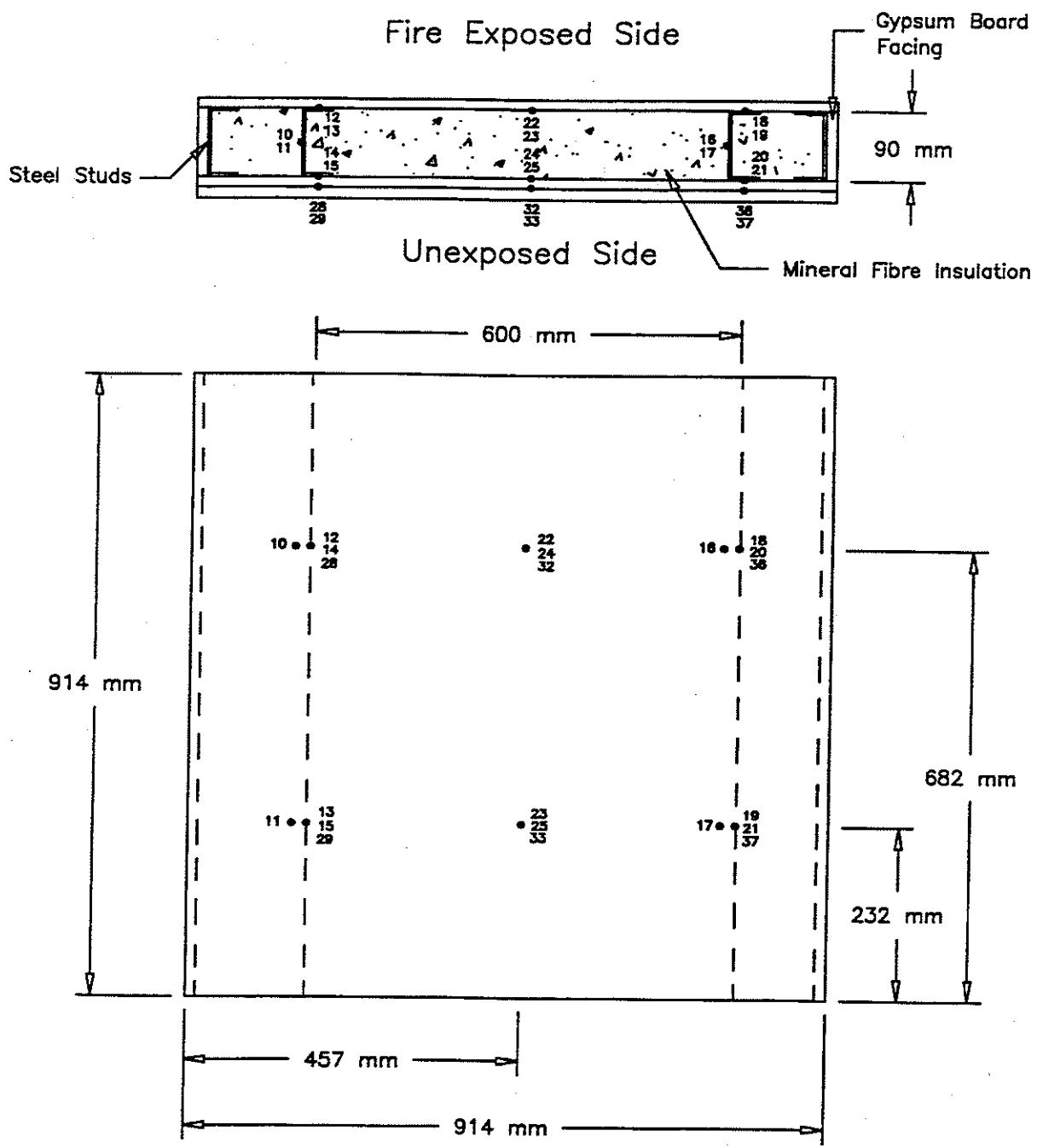


Figure 10. Thermocouple Locations in Small-Scale Test S-23



Drawing Not To Scale

Figure 11. Thermocouple Locations in Small-Scale Test S-25



Drawing Not To Scale

Figure 12. Thermocouple Locations in Small-Scale Test S-26

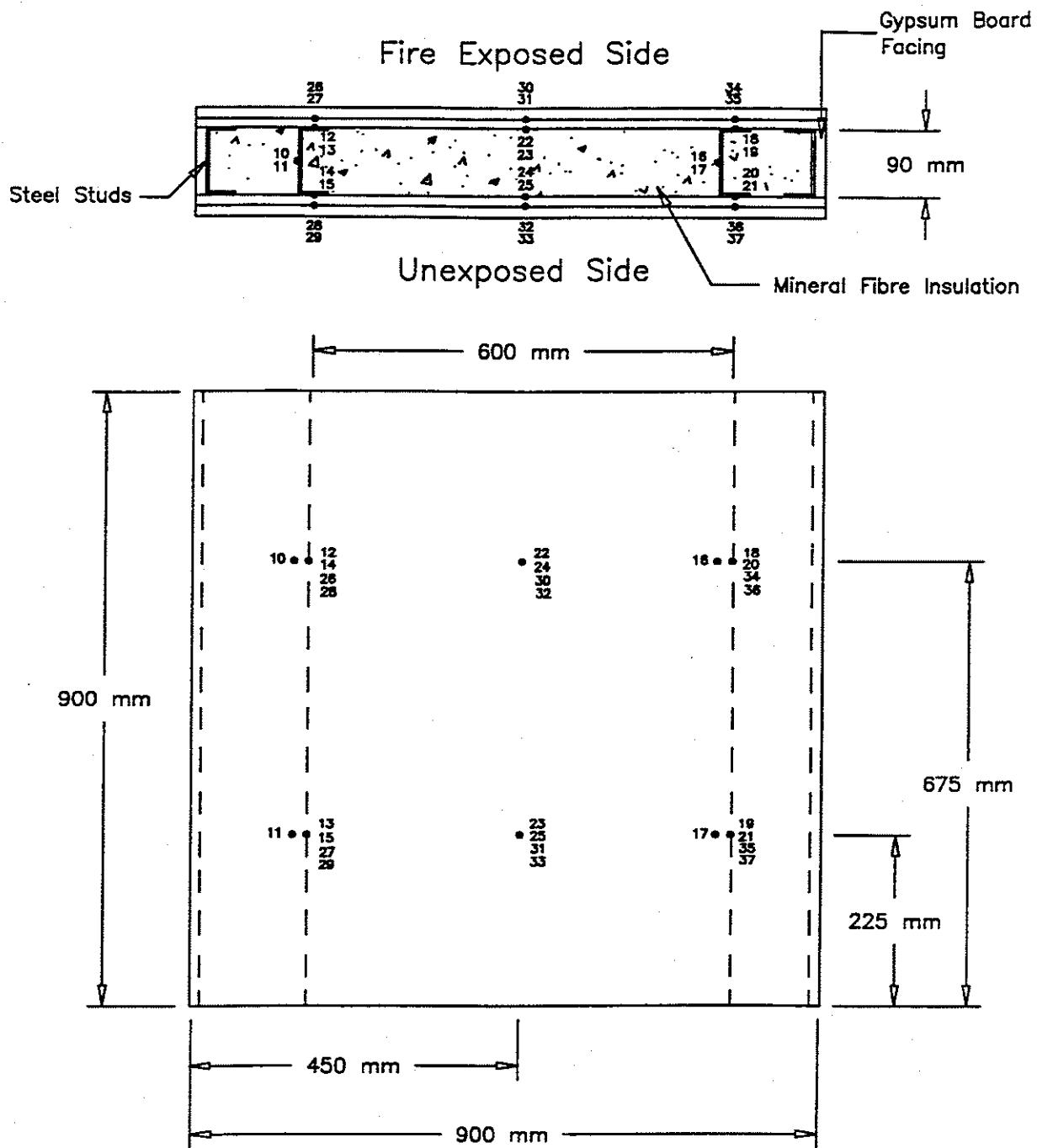
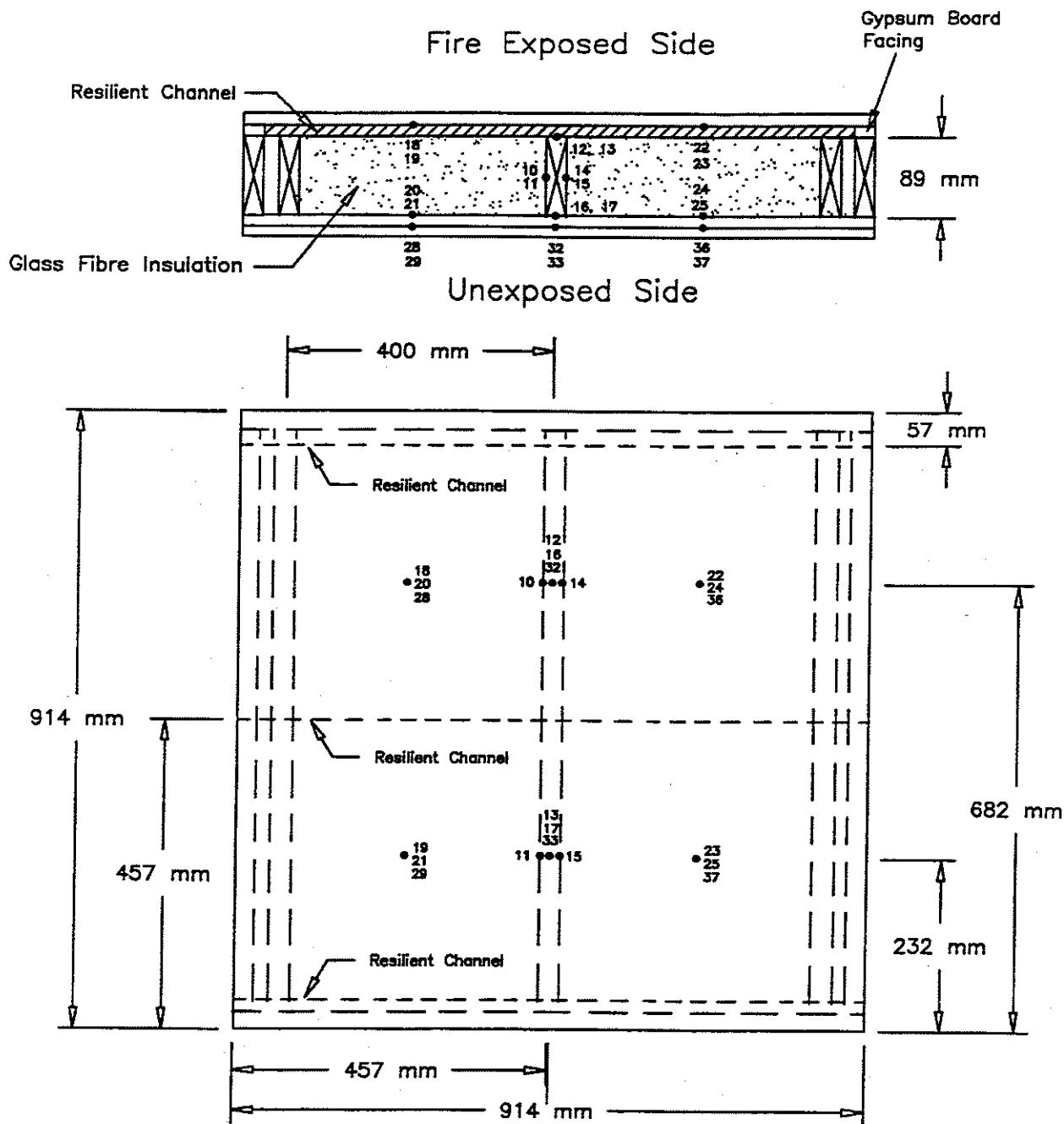


Figure 13. Thermocouple Locations in Small-Scale Test S-27



Drawing Not To Scale

Figure 14. Thermocouple Locations in Small-Scale Test S-28

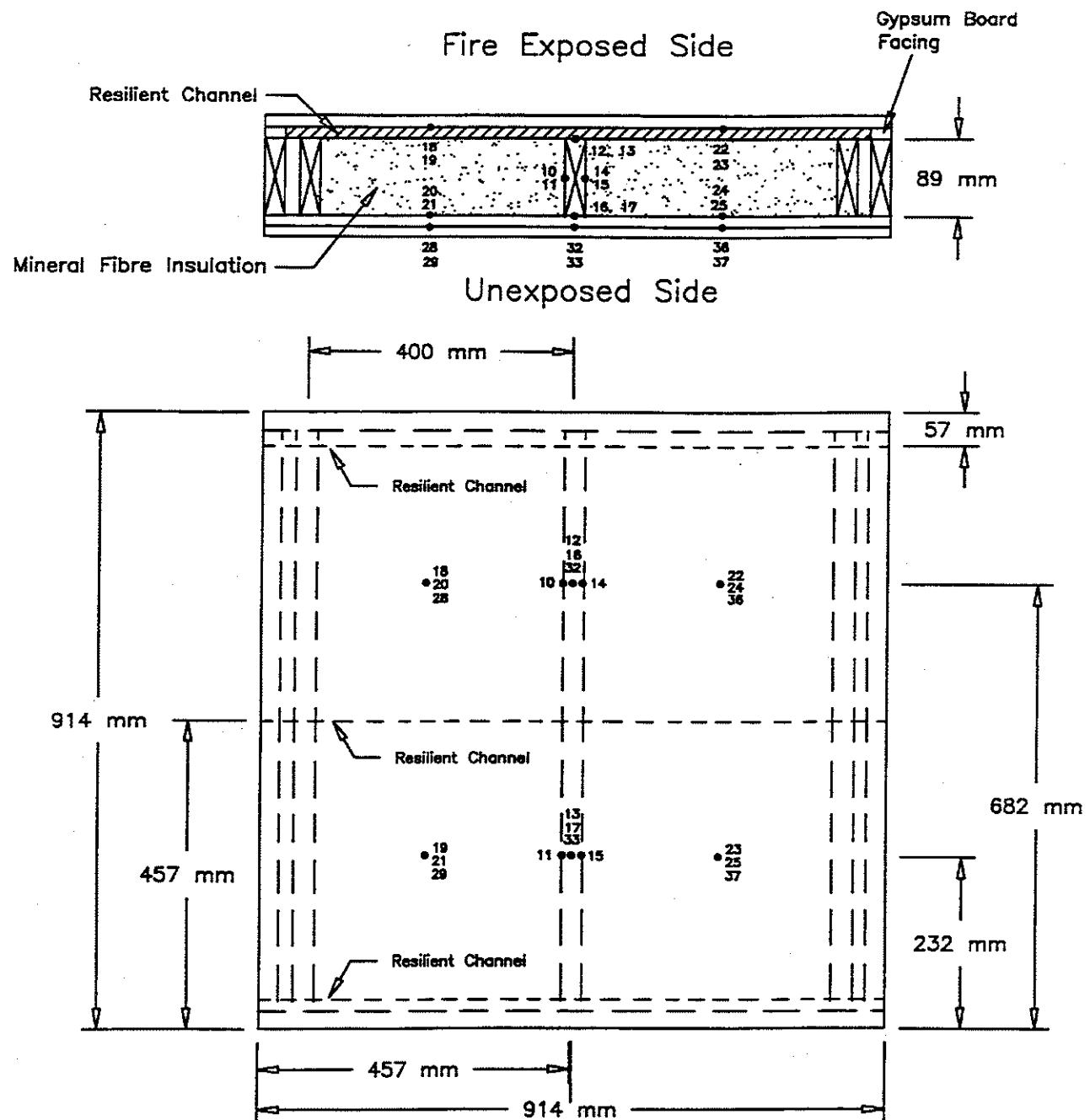


Figure 15. Thermocouple Locations in Small-Scale Test S-29

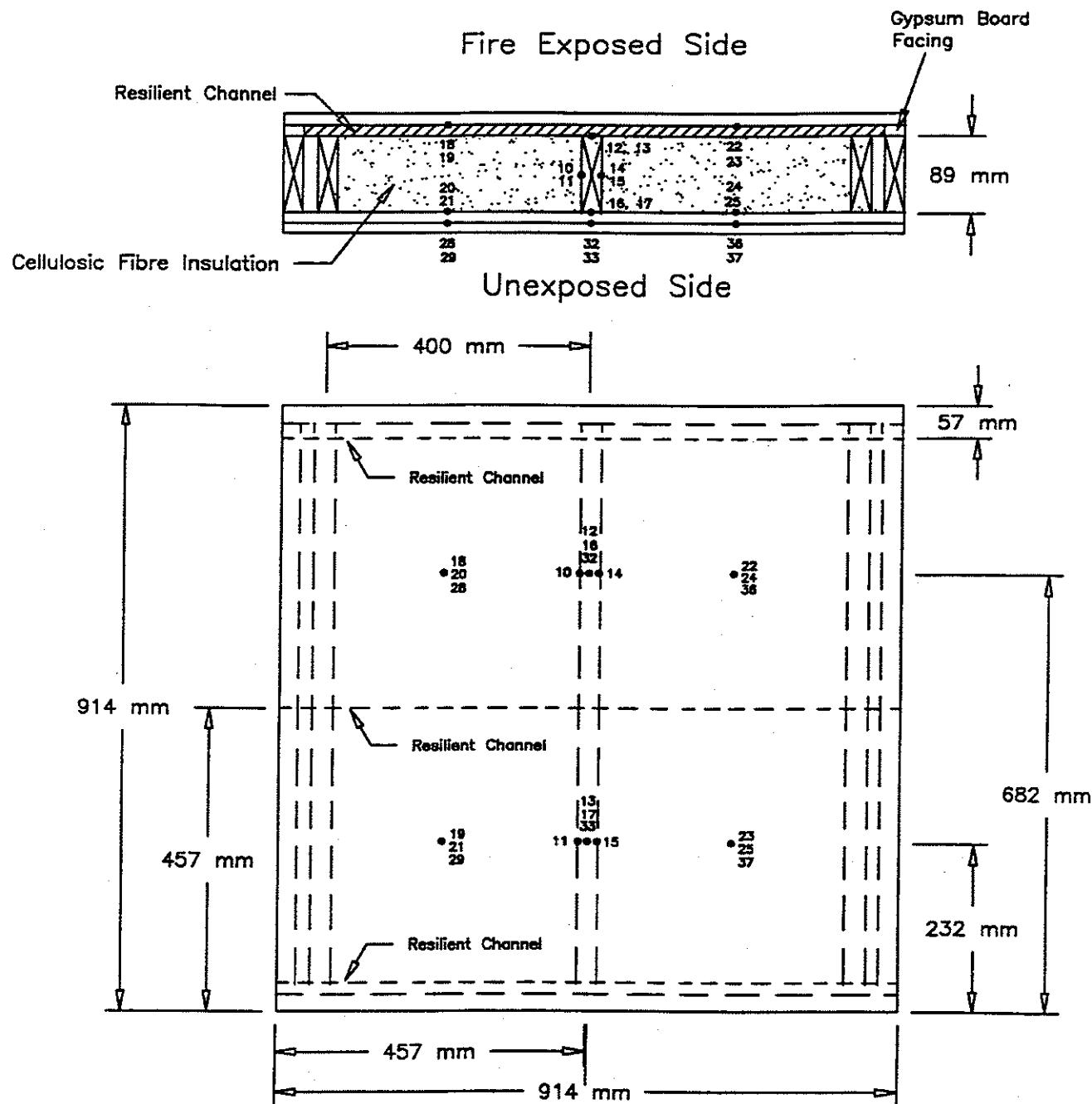
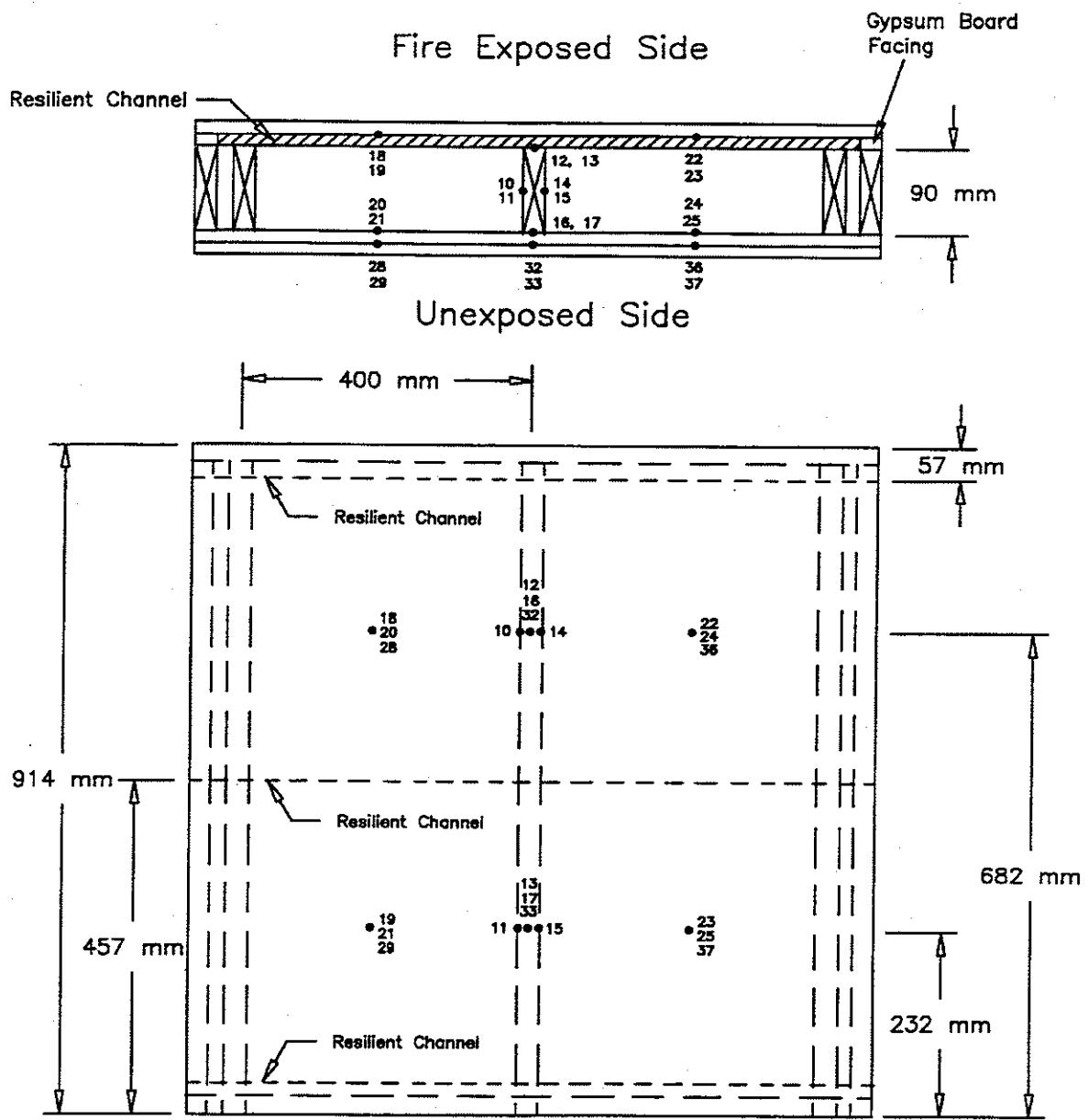


Figure 16. Thermocouple Locations in Small-Scale Test S-30



Drawing Not To Scale

Figure 17. Thermocouple Locations in Small-Scale Test S-31

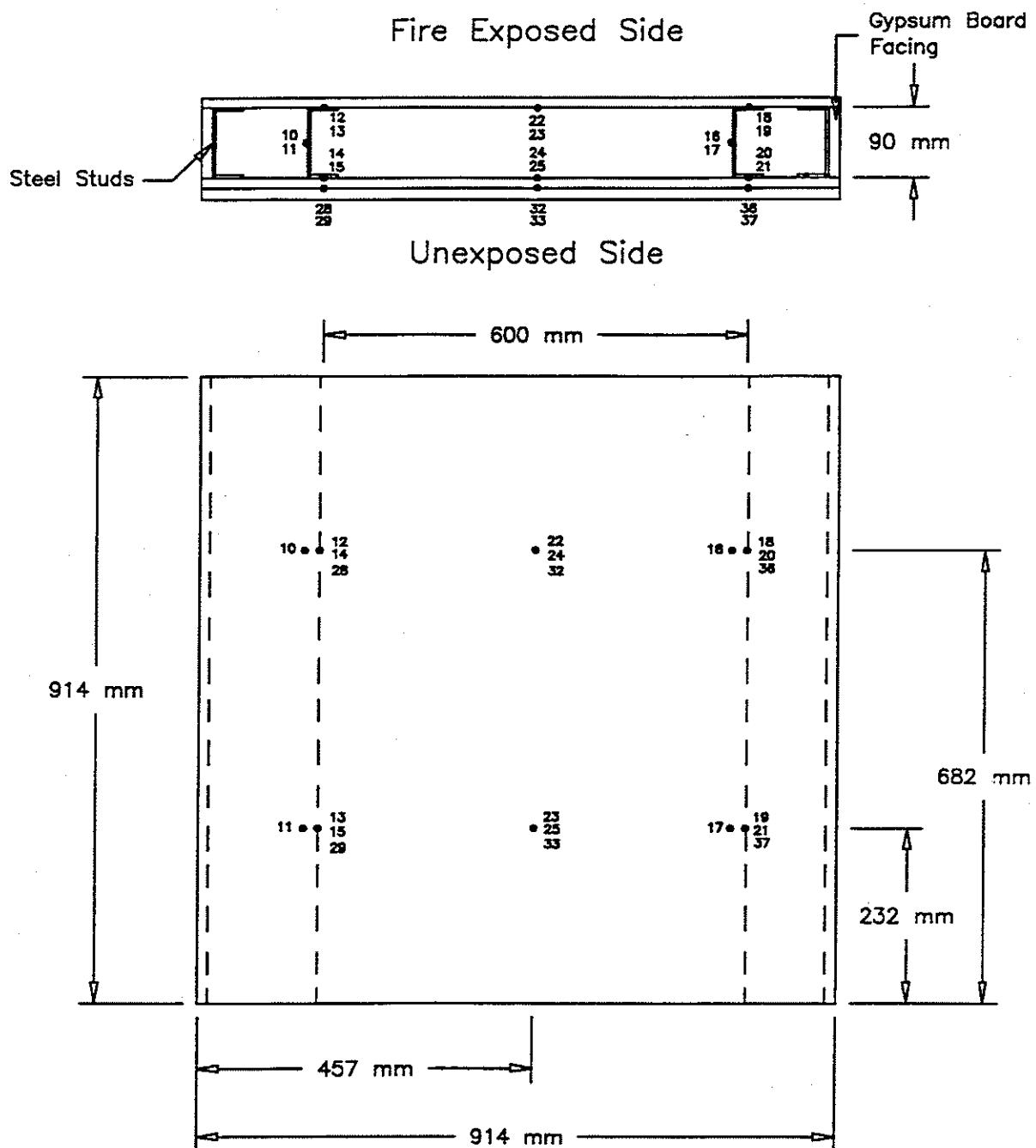
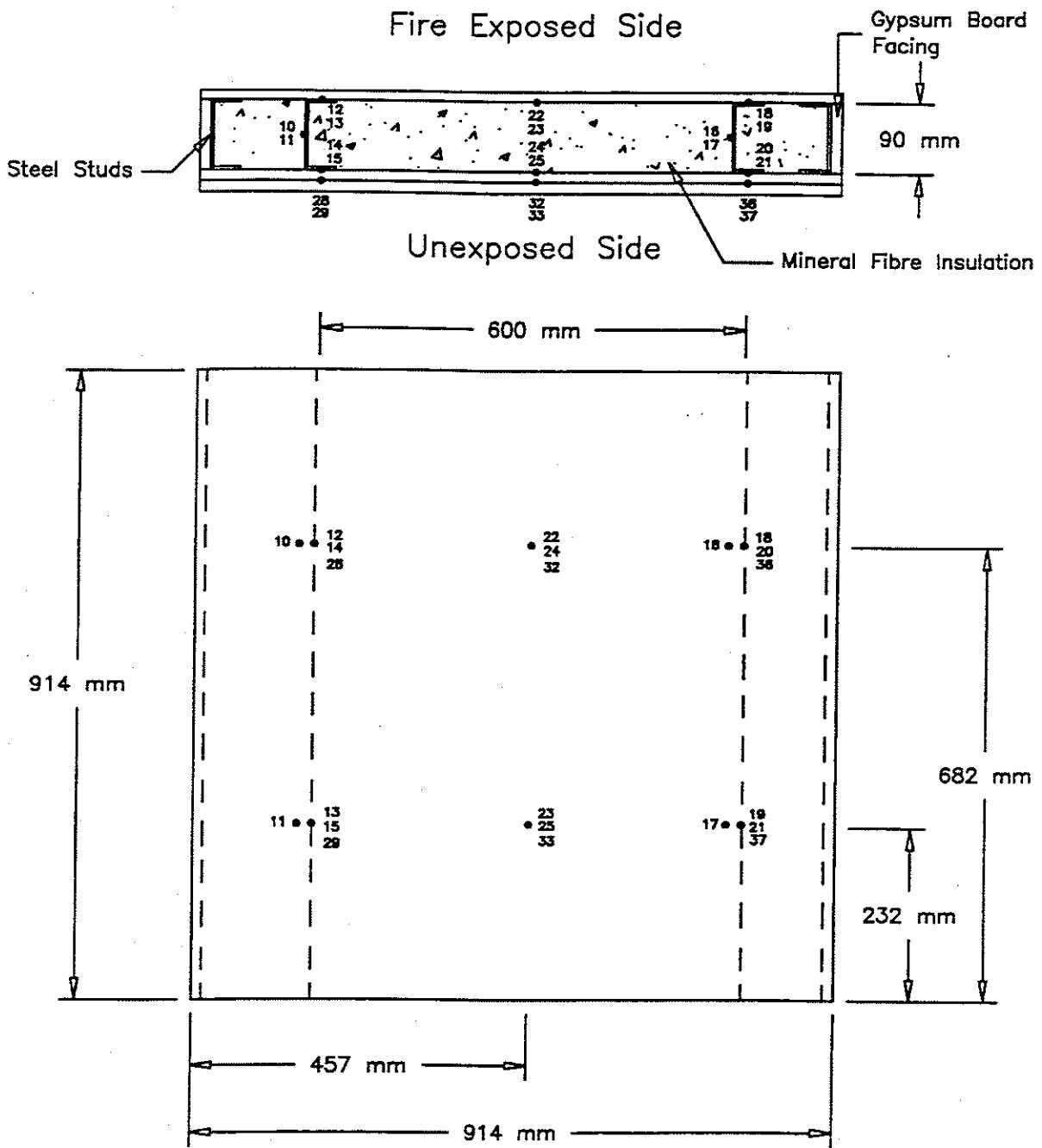
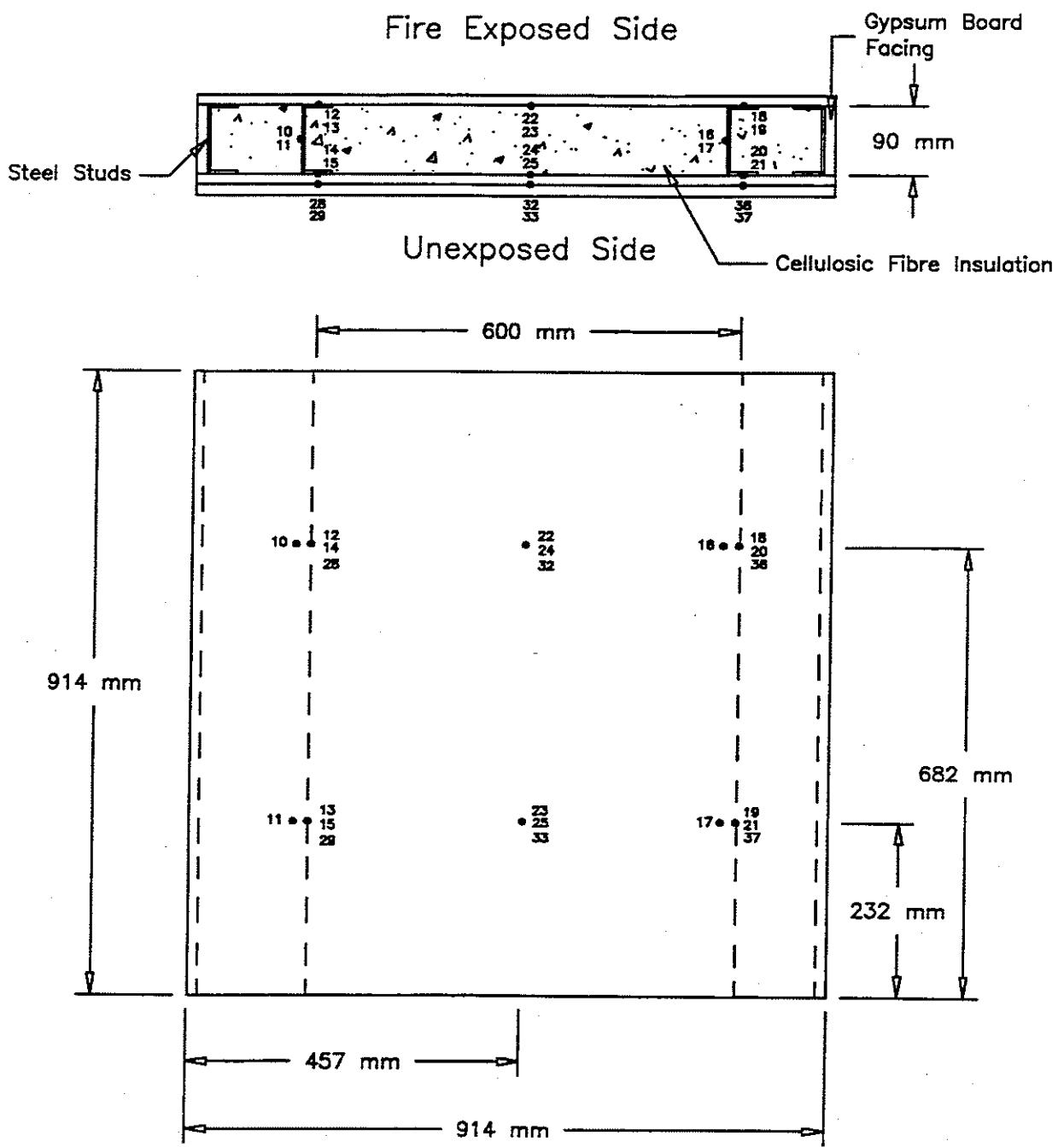


Figure 18. Thermocouple Locations in Small-Scale Test S-41



Drawing Not To Scale

Figure 19. Thermocouple Locations in Small-Scale Test S-42



Drawing Not To Scale

Figure 20. Thermocouple Locations in Small-Scale Test S-43

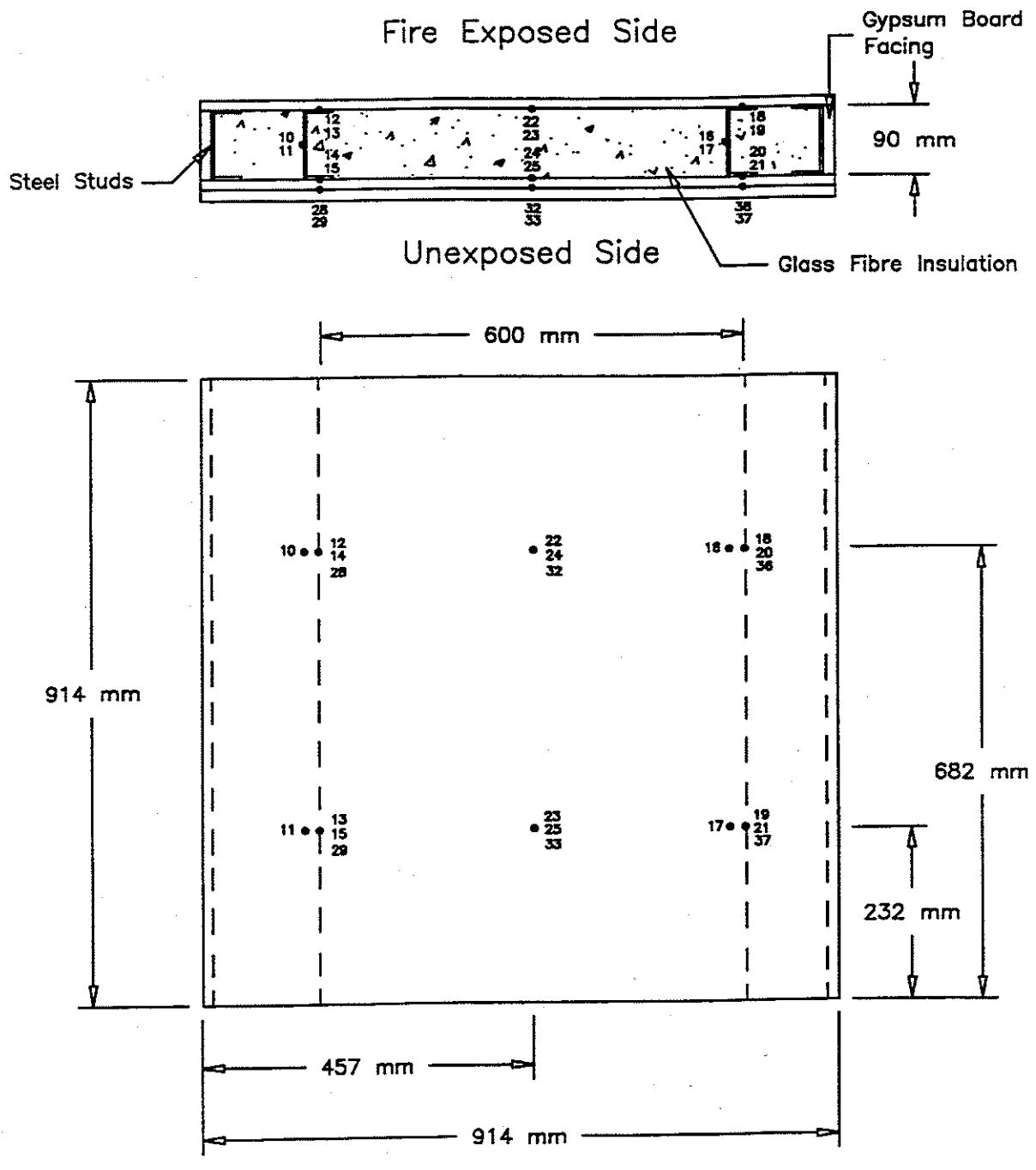


Figure 21. Thermocouple Locations in Small-Scale Test S-44

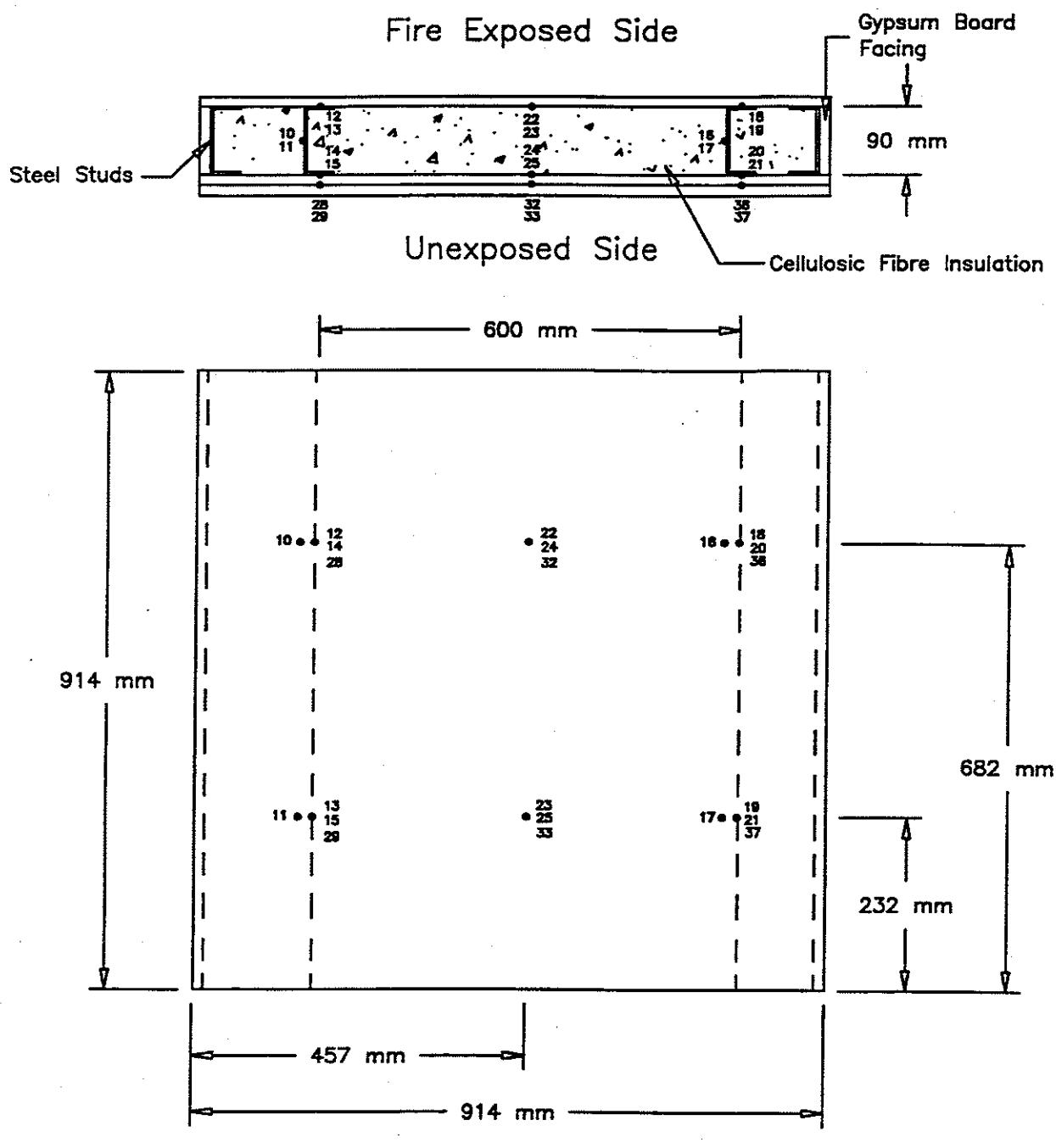
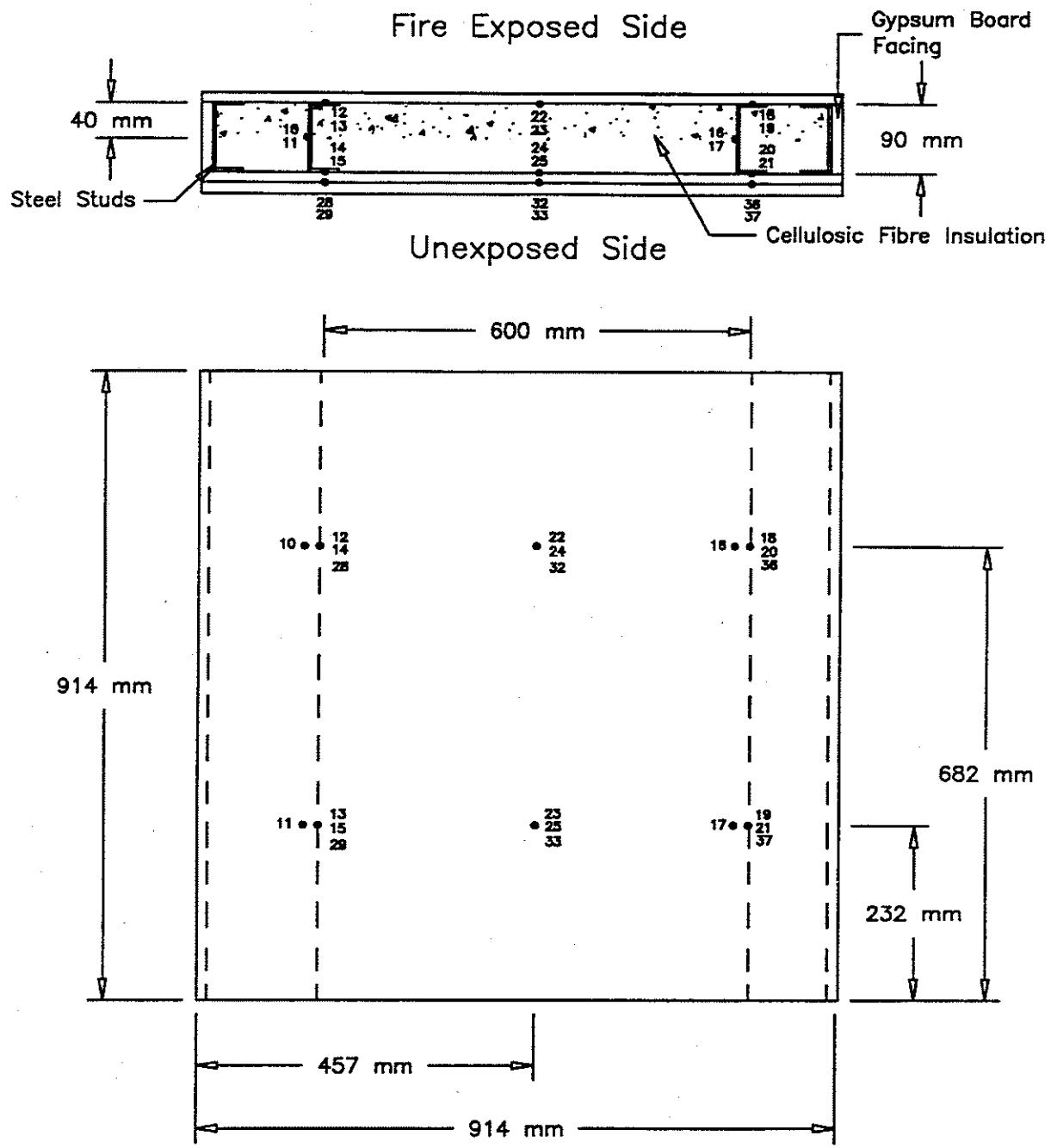
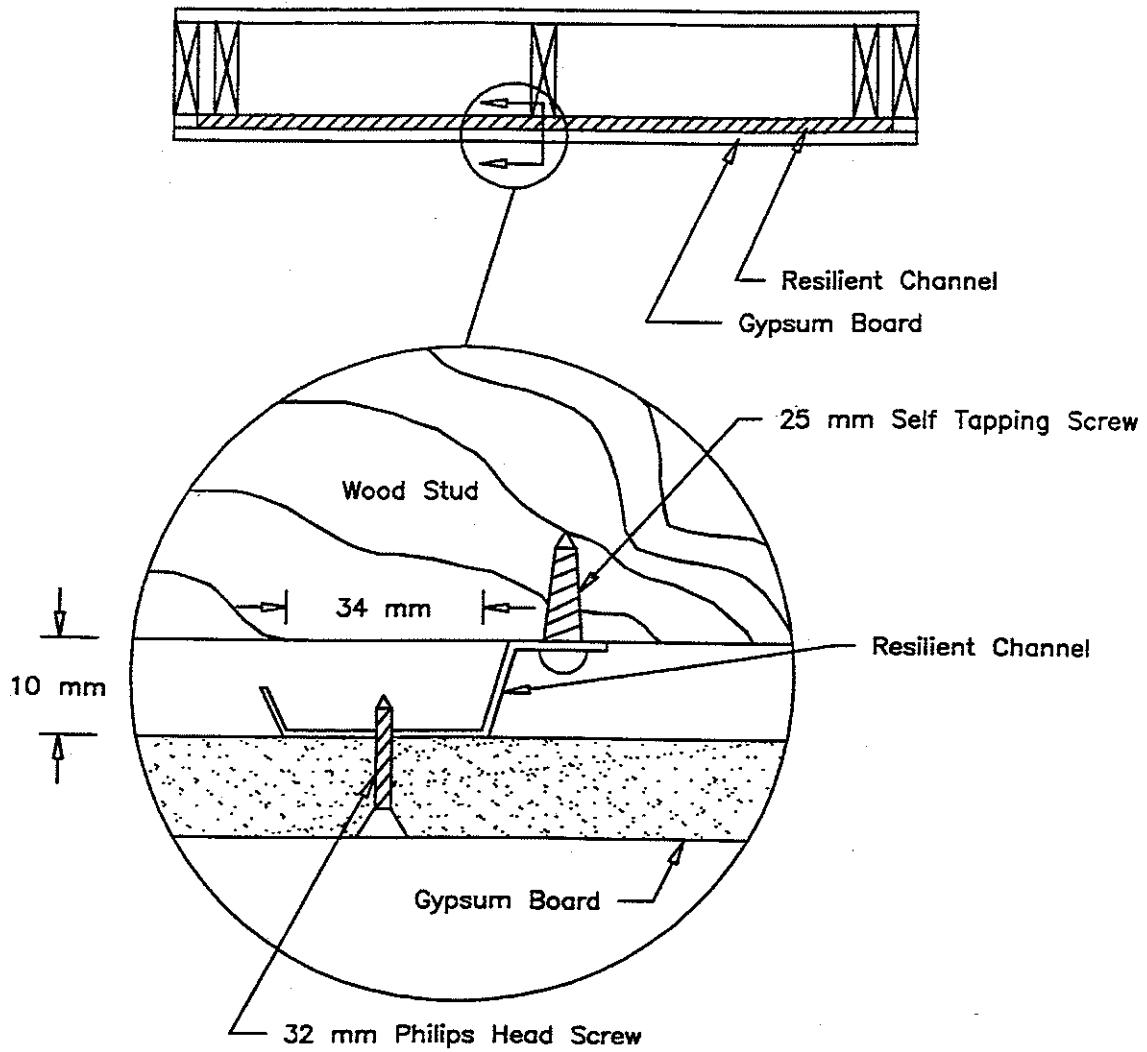


Figure 22. Thermocouple Locations in Small-Scale Test S-46



Drawing Not To Scale

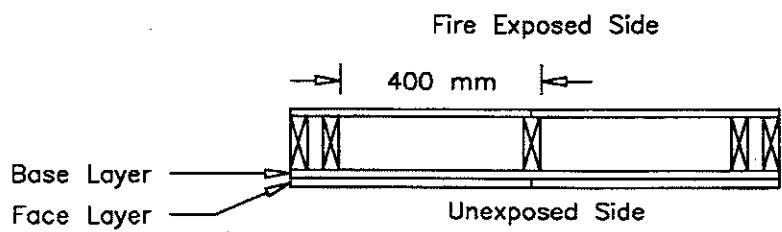
Figure 23. Thermocouple Locations in Small-Scale Test S-47



Edge View: Resilient Channel

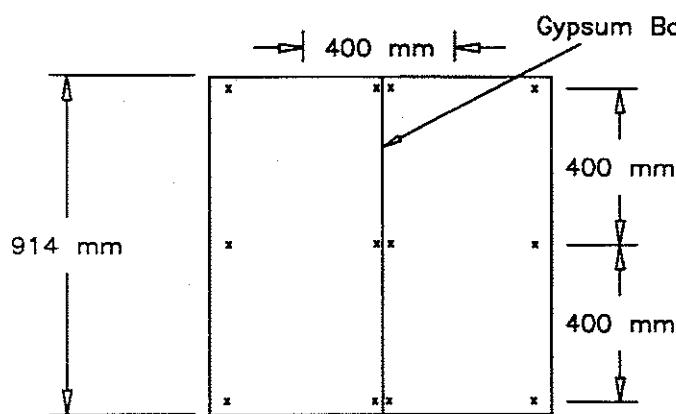
Drawing not to scale

Figure 24. Resilient Channel Installation Detail

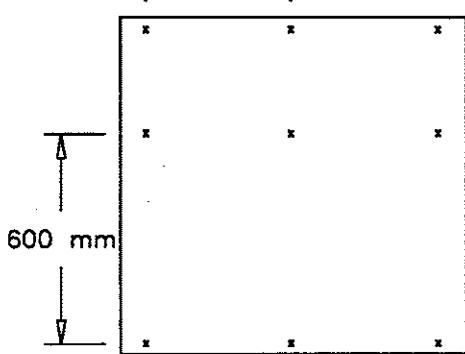


(a) Base Layer

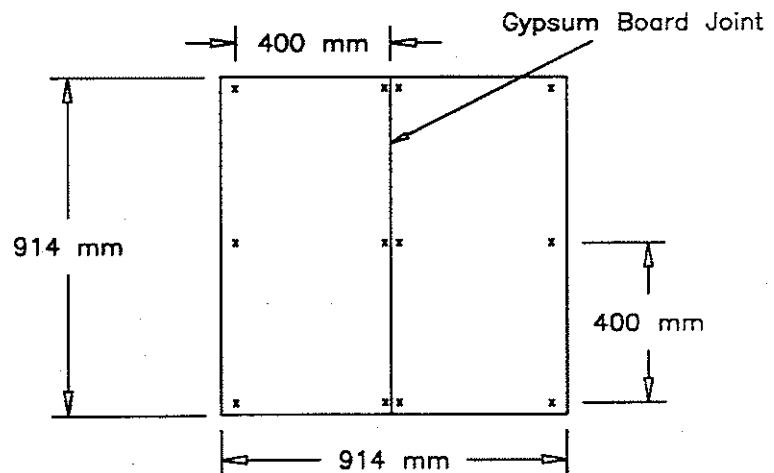
(a) Base Layer



400 mm



(b) Face Layer



(i) Fire Exposed Side

(ii) Unexposed Side

Drawing not to scale

Figure 25. Screw Locations For Wood Stud, 1x2 Gypsum Layers, Small-Scale Assemblies S-28, S-29, S-30 and S-31

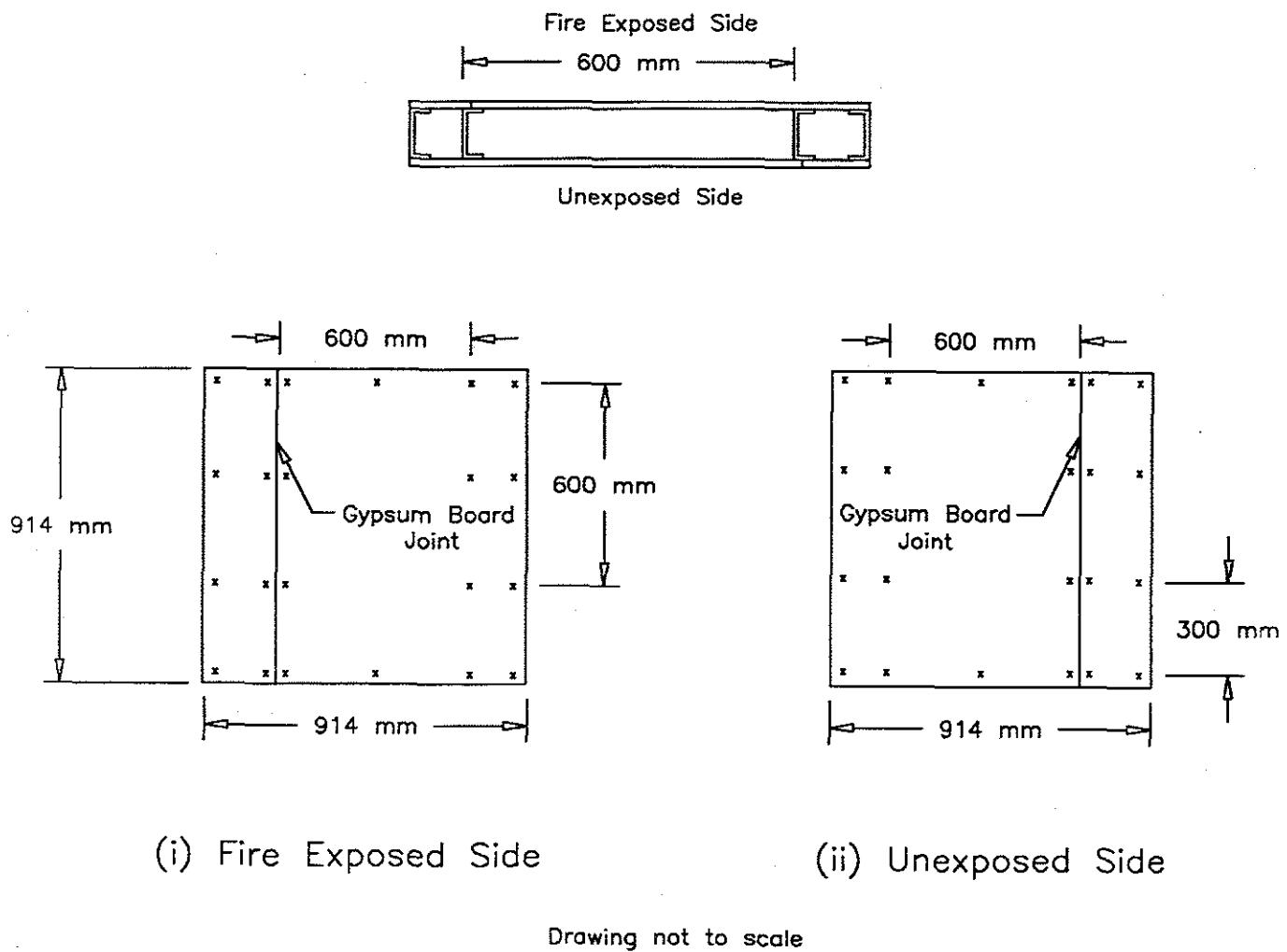
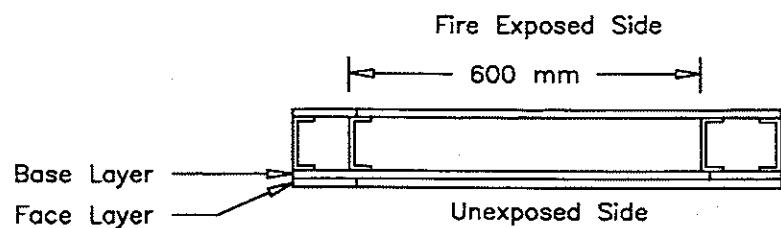
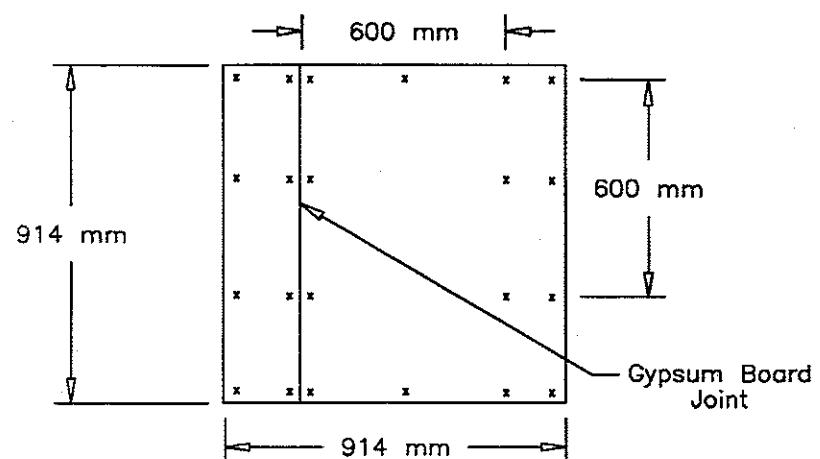


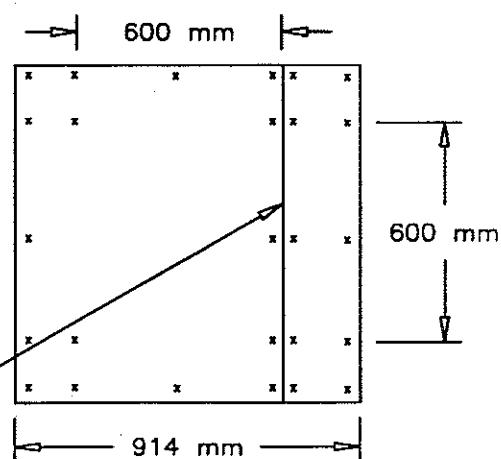
Figure 26. Screw Locations For Steel Stud, 1x1 Gypsum Layers, Small-Scale Assemblies S-09, S-14, S-15 and S-22



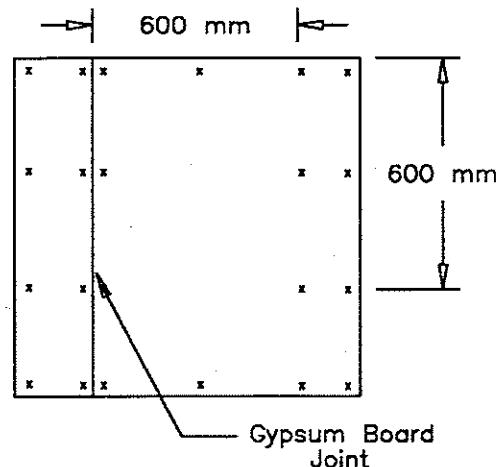
(a) Base Layer



(a) Base Layer



(b) Face Layer

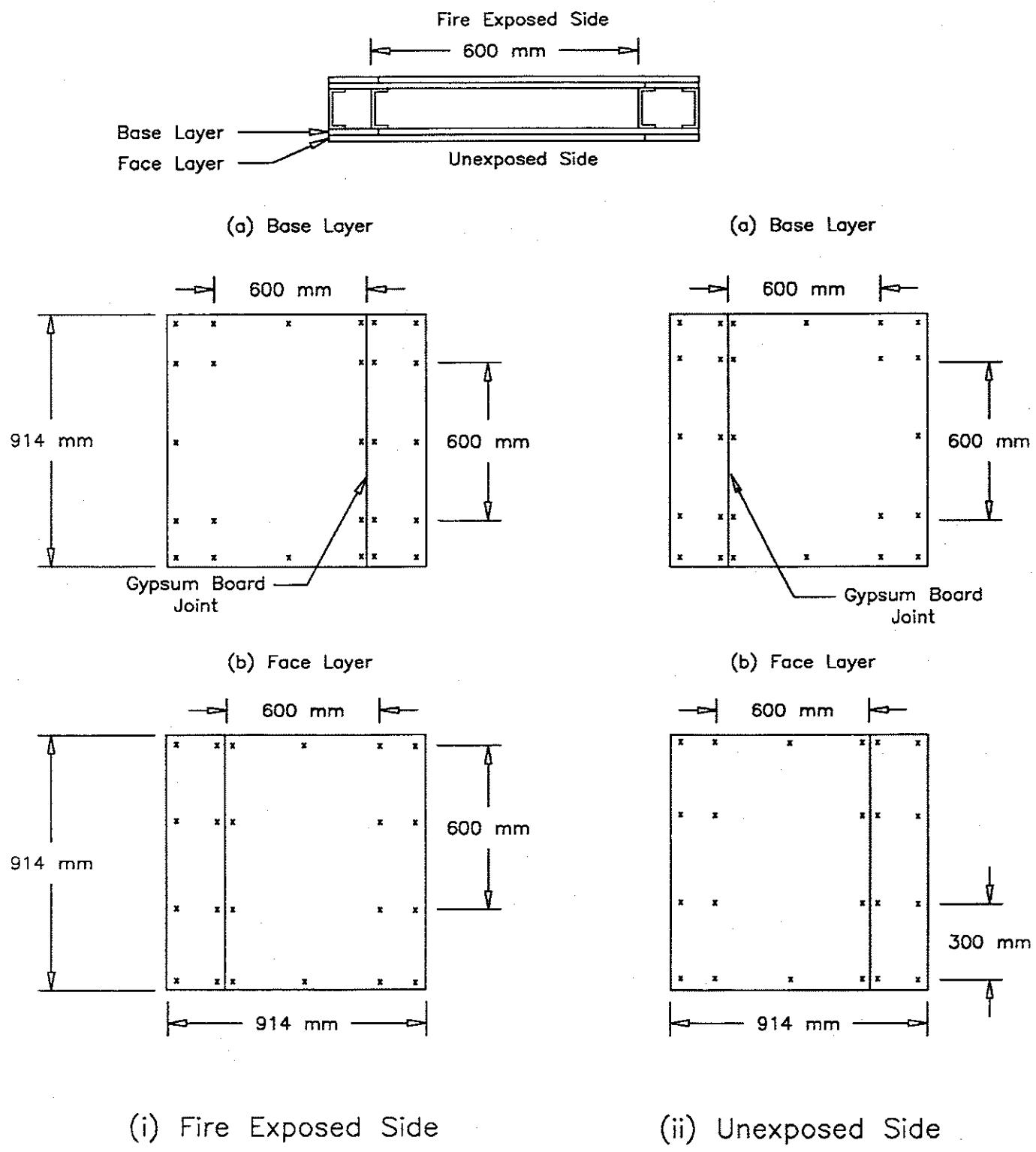


(i) Fire Exposed Side

(ii) Unexposed Side

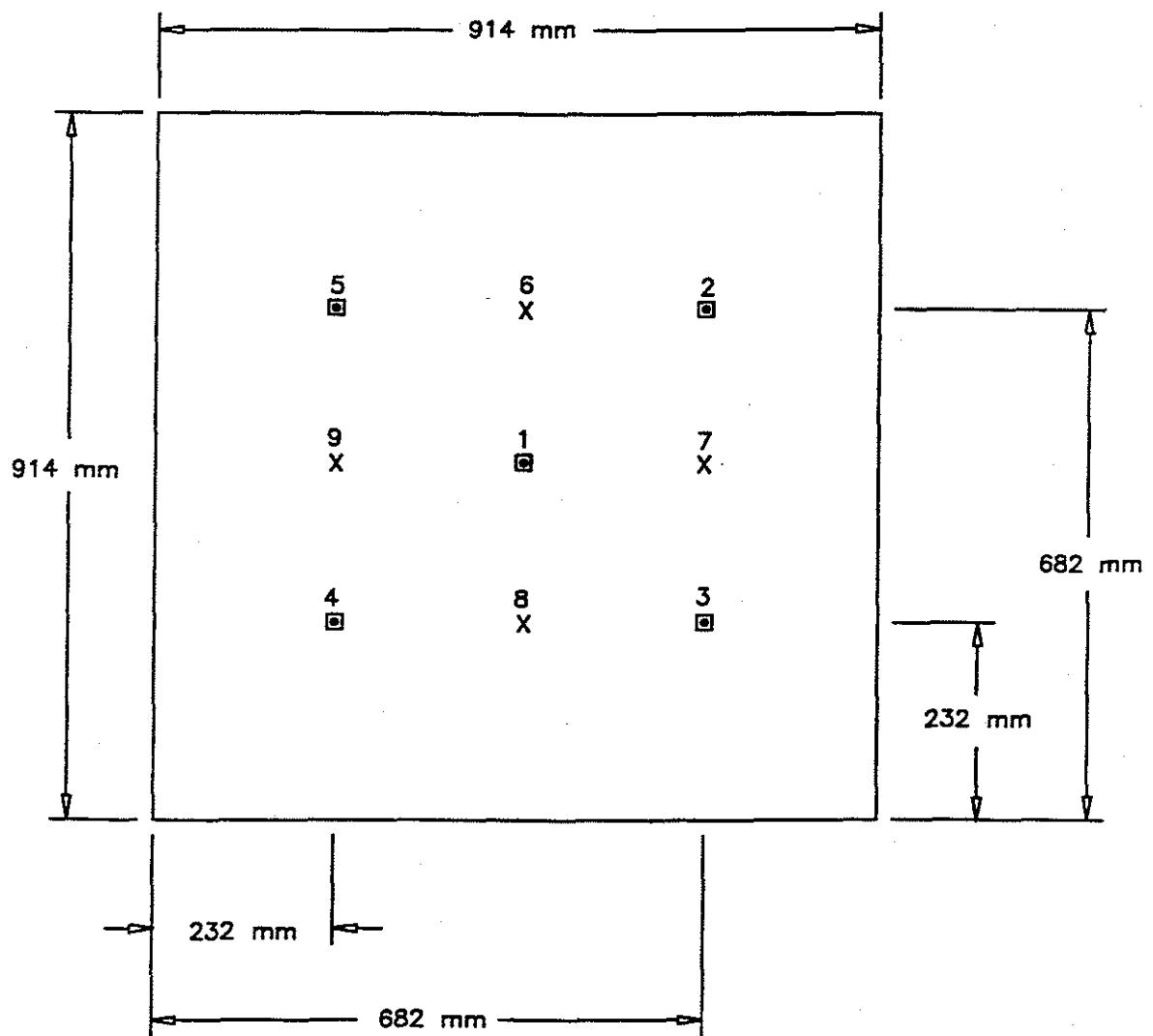
Drawing not to scale

Figure 27. Screw Locations For Wood Stud, 1x2 Gypsum Layers, Small-Scale Assemblies S-10, S-18, S-23, S-26, S-41, S-42, S-43, S-44, S-46 and S-47



Drawing not to scale

Figure 28. Screw Locations For Steel Stud, 2x2 Gypsum Layers,
Small-Scale Assemblies S-12, S-21, S-25 and S-27



- Thermocouple Under Std. ULC/S101 Insulated Pad
- ✗ Bare Thermocouple

Drawing not to scale

Figure 29. Thermocouple Locations on Unexposed Surface
Small-Scale Tests

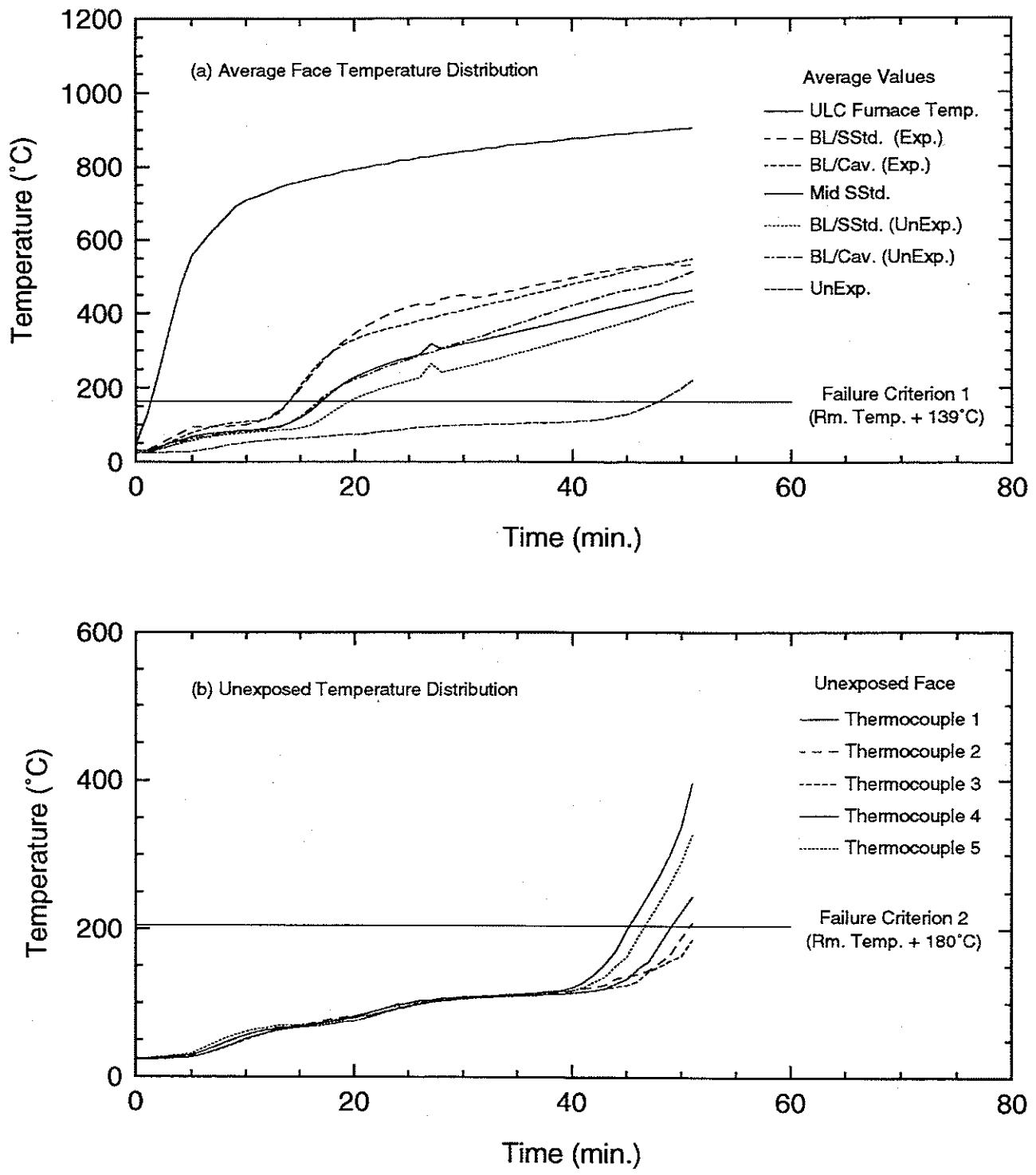


Figure 30. Temperature Distributions For Small Scale Test Assembly S-09

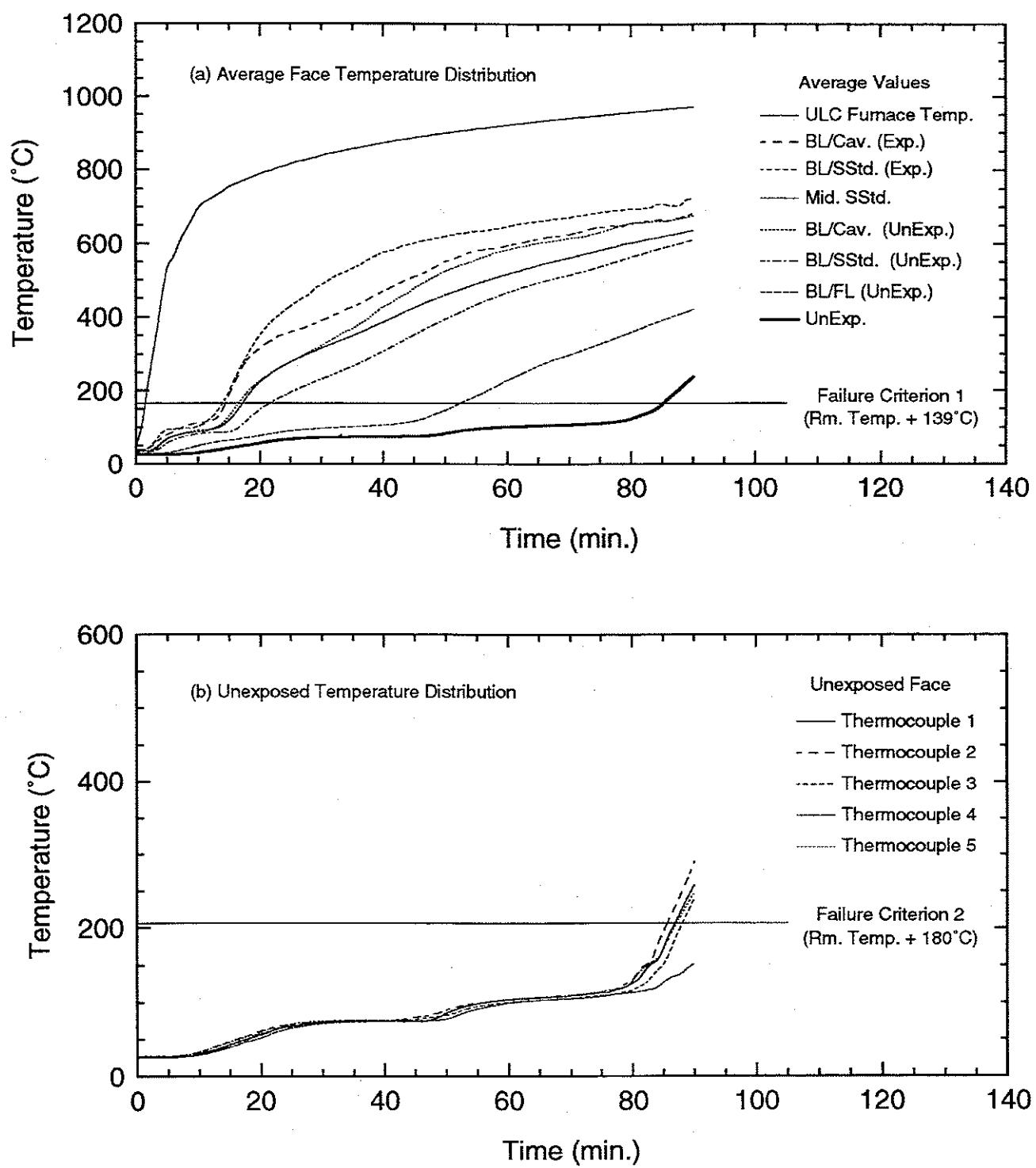


Figure 31. Temperature Distributions For Small Scale Test Assembly S-10

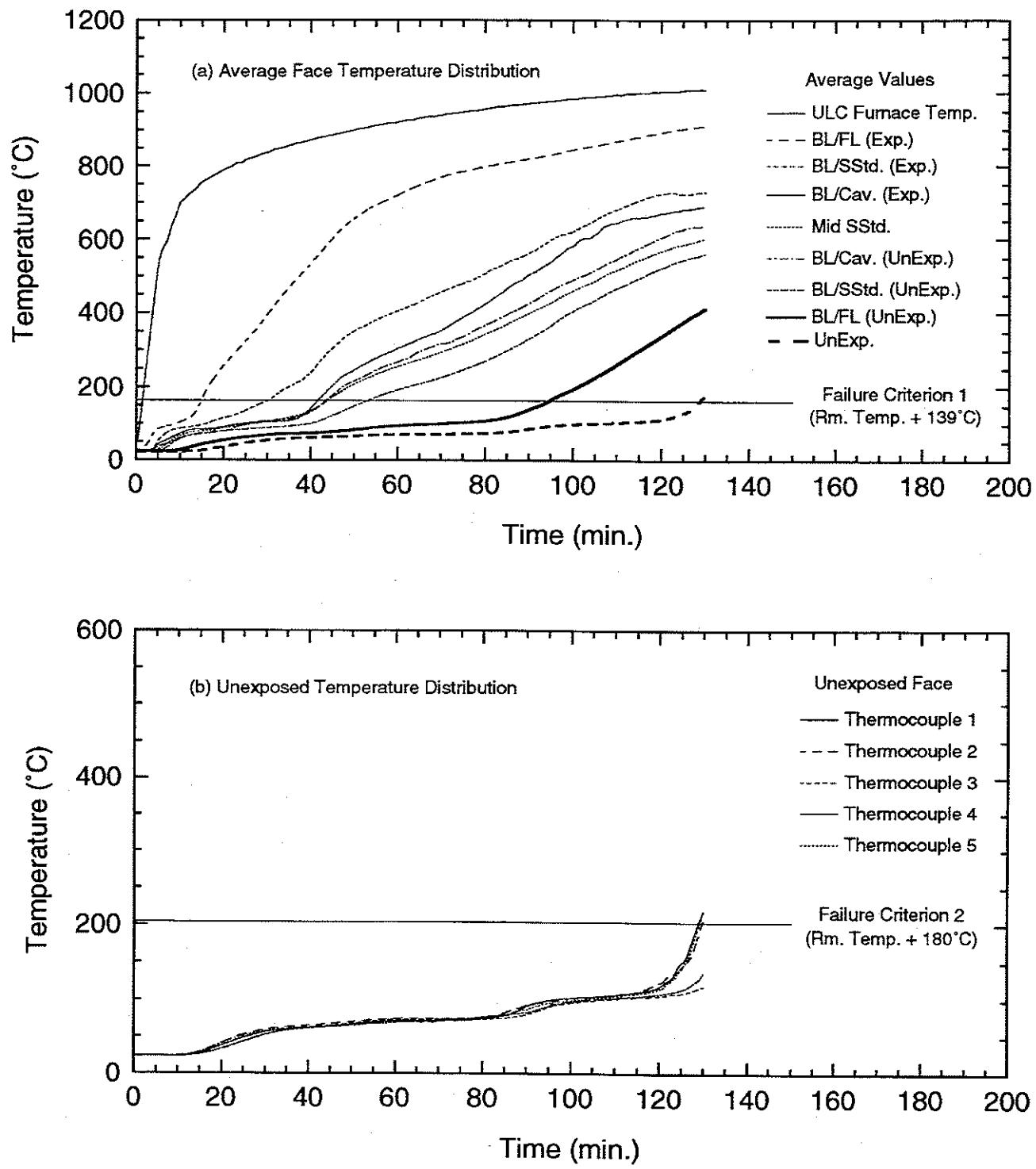


Figure 32. Temperature Distributions For Small Scale Test Assembly S-12

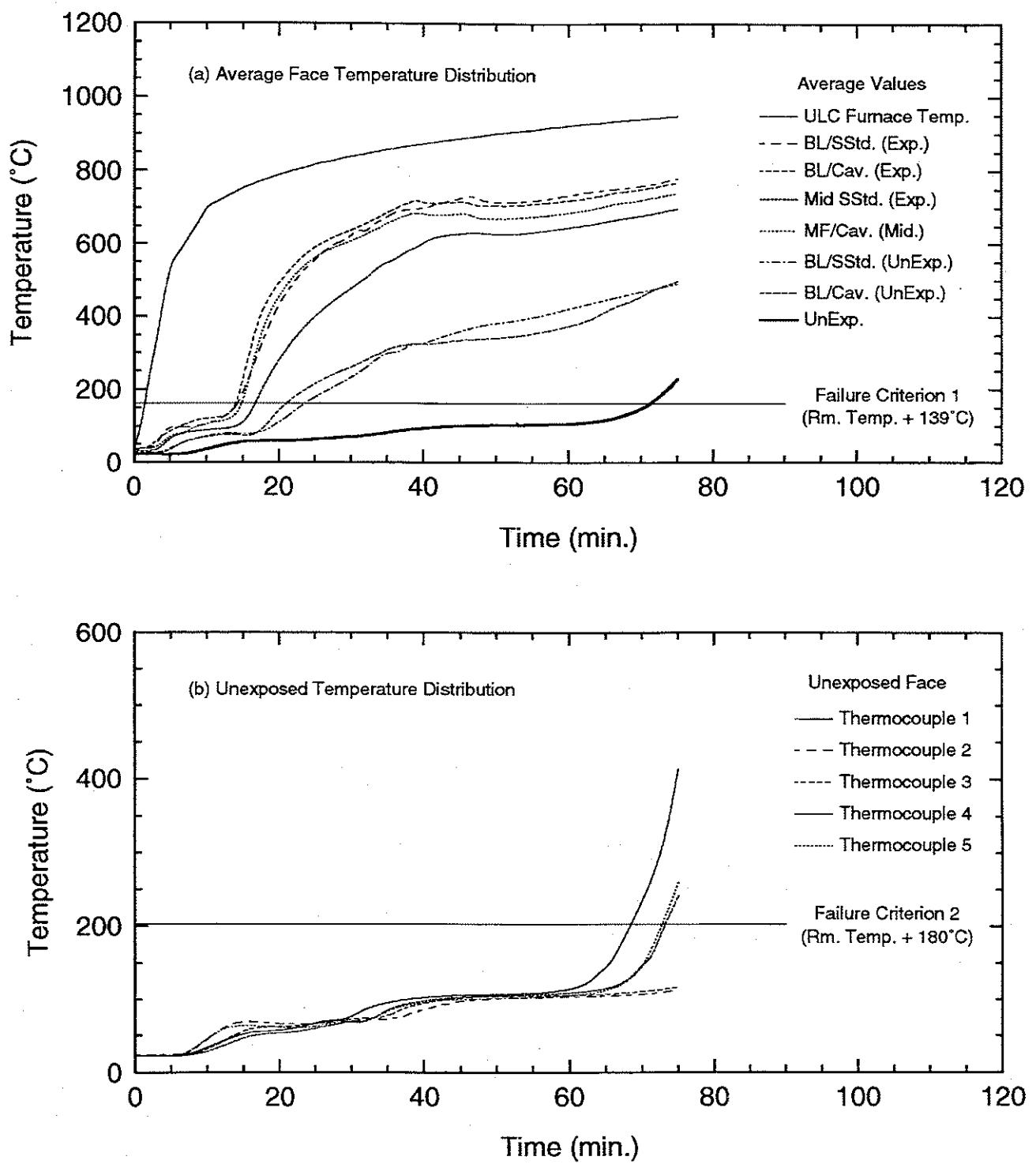


Figure 33. Temperature Distributions For Small Scale Test Assembly S-14

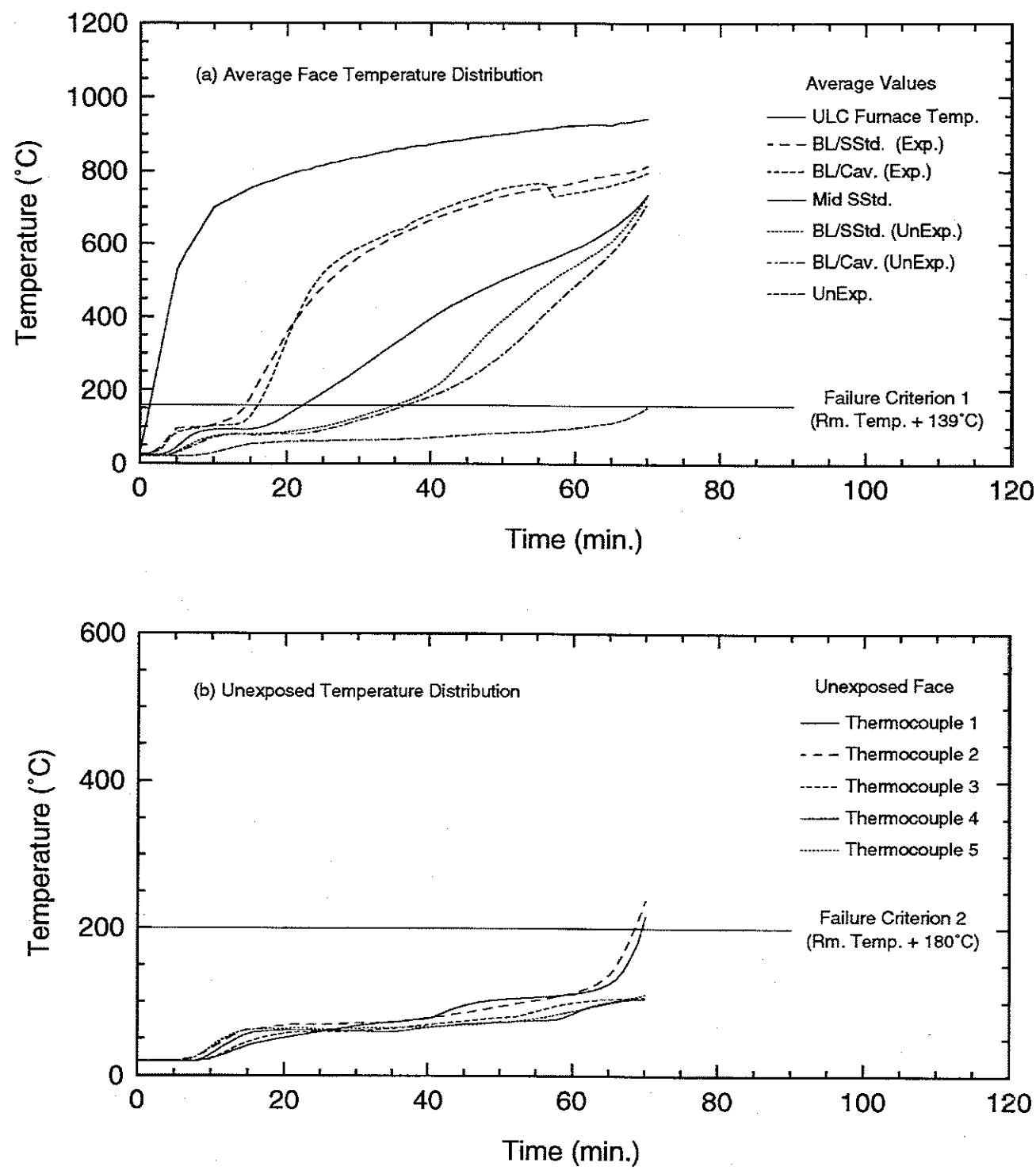


Figure 34. Temperature Distributions For Small Scale Test Assembly S-15

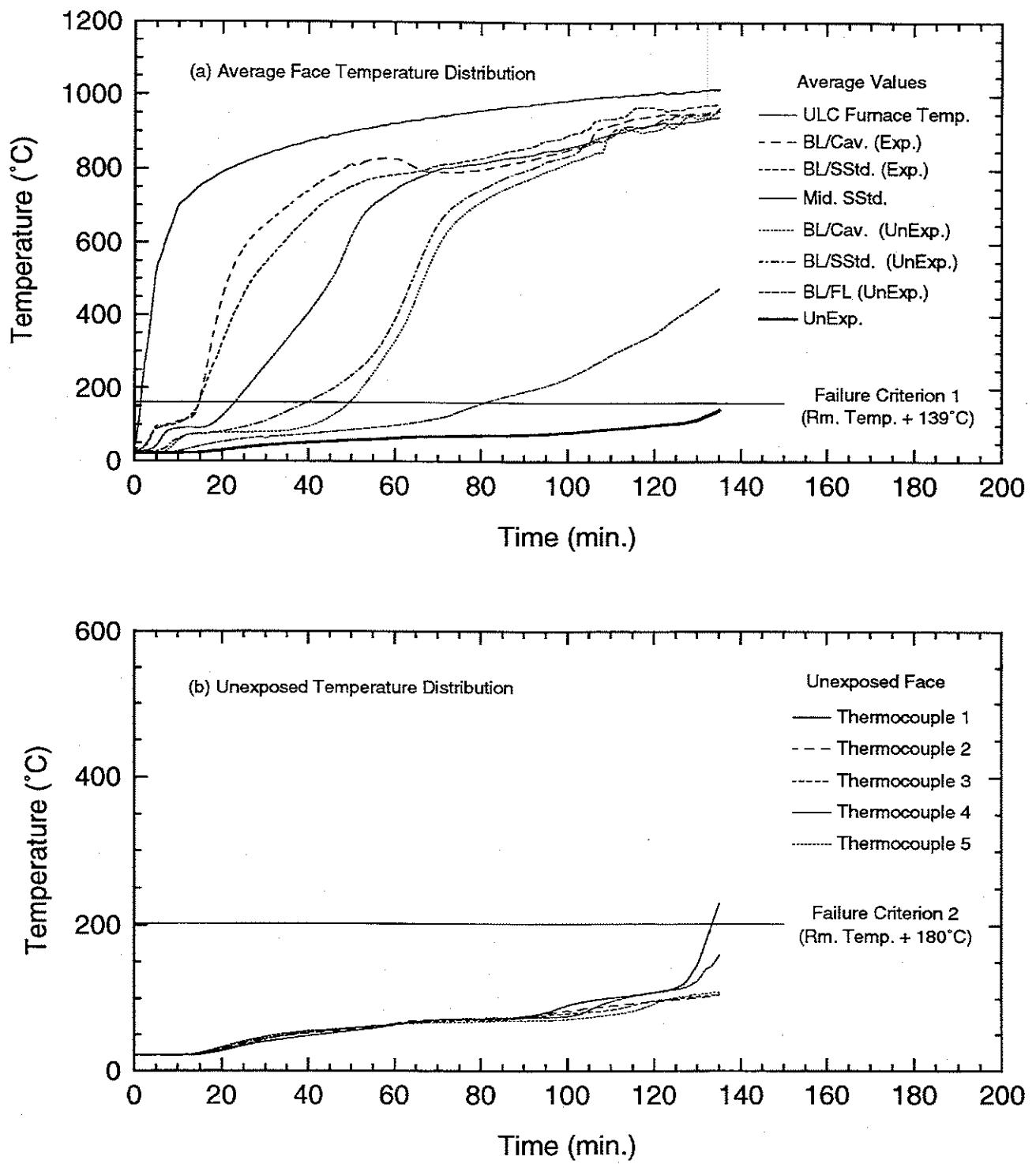


Figure 35. Temperature Distributions For Small Scale Test Assembly S-18

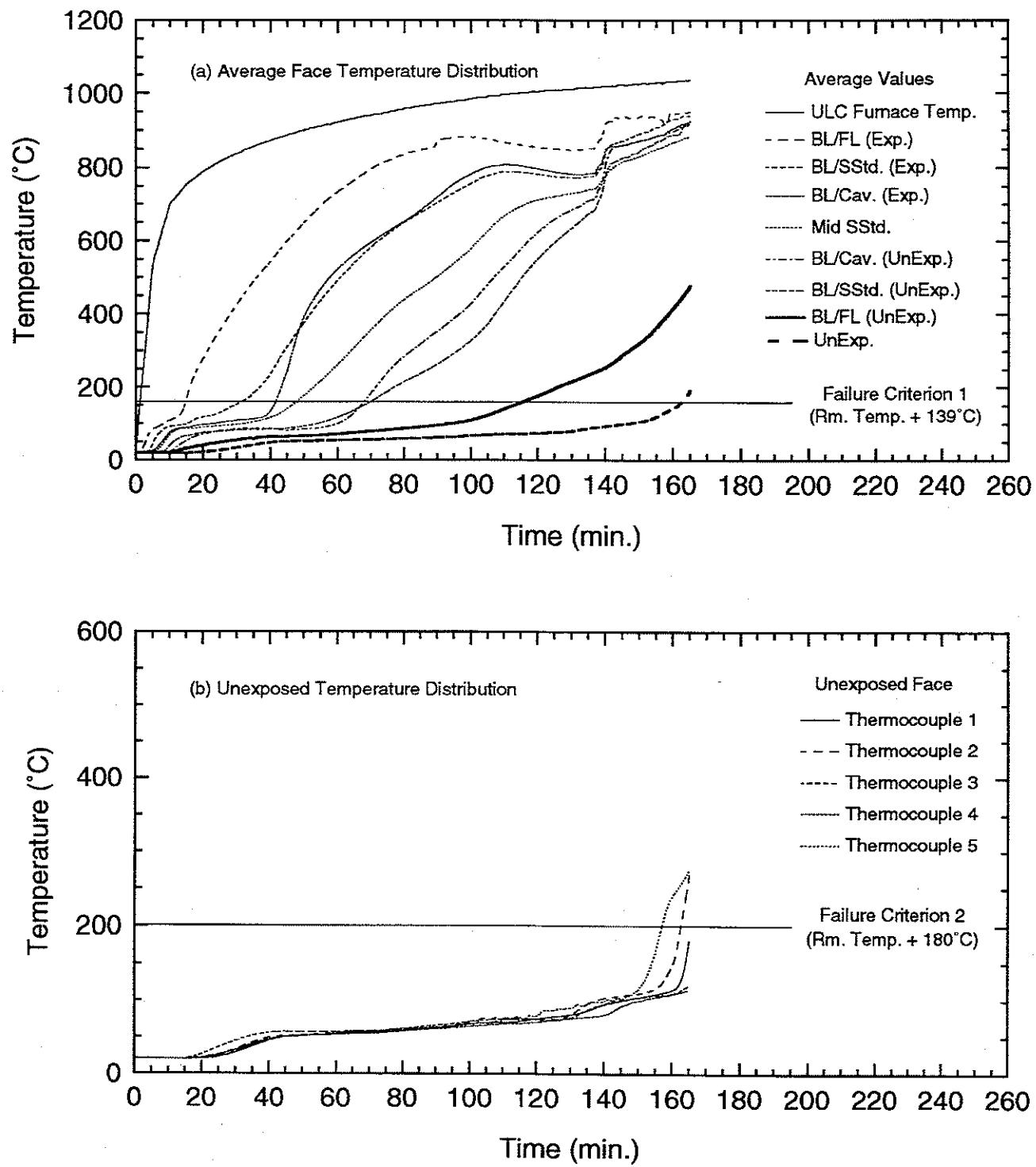


Figure 36. Temperature Distributions For Small Scale Test Assembly S-21

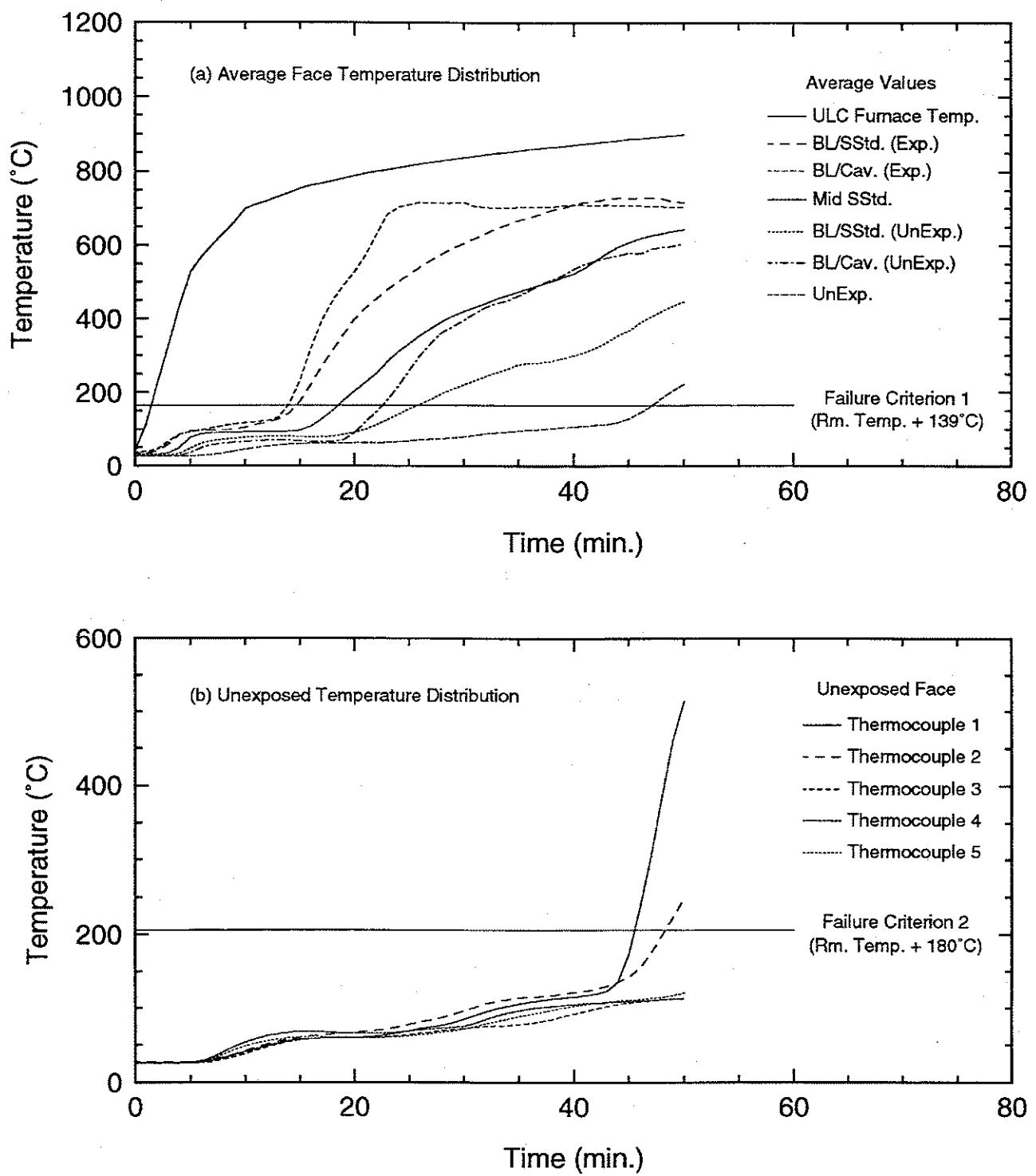


Figure 37. Temperature Distributions For Small Scale Test Assembly S-22

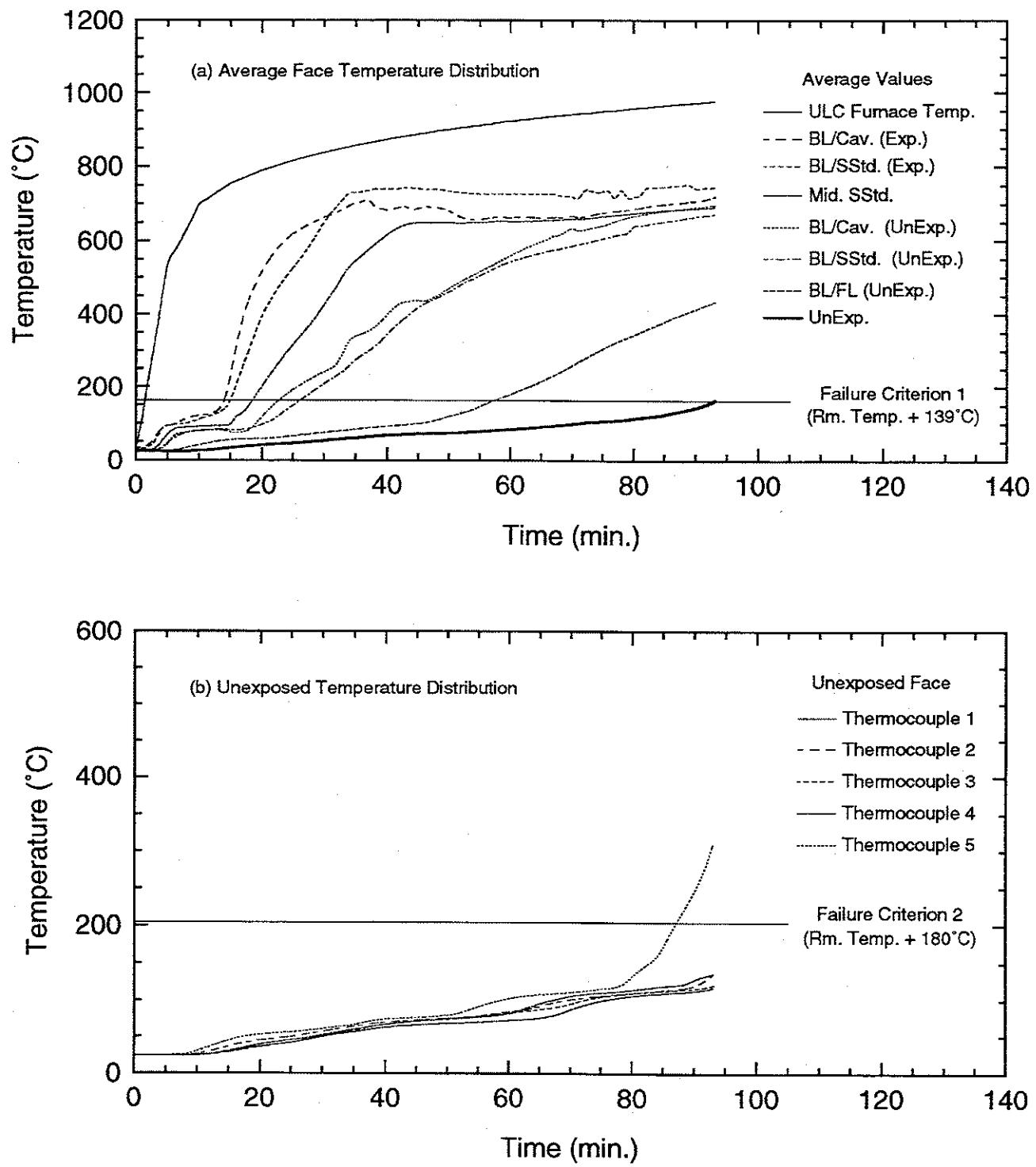


Figure 38. Temperature Distributions For Small Scale Test Assembly S-23

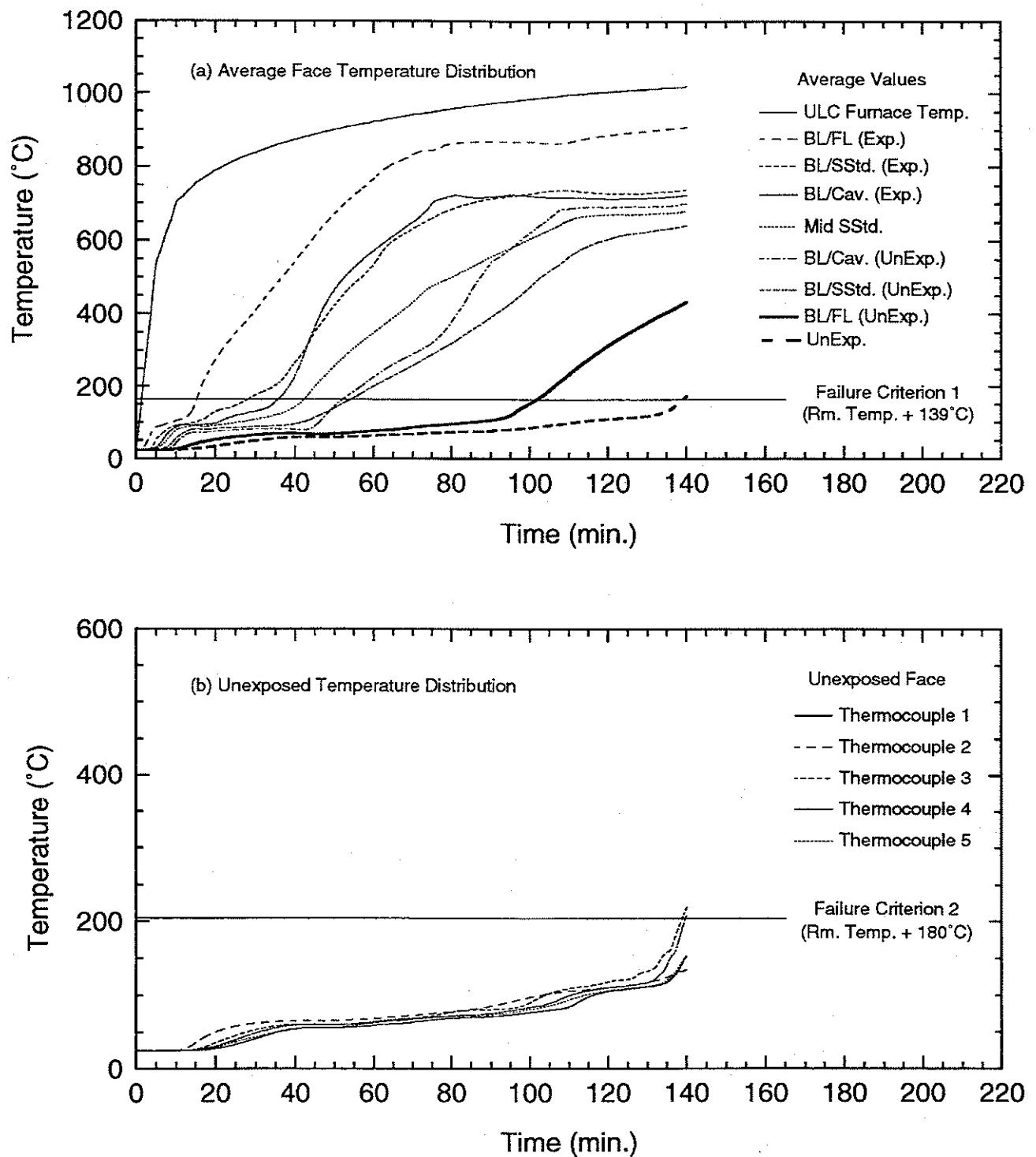


Figure 39. Temperature Distributions For Small Scale Test Assembly S-25

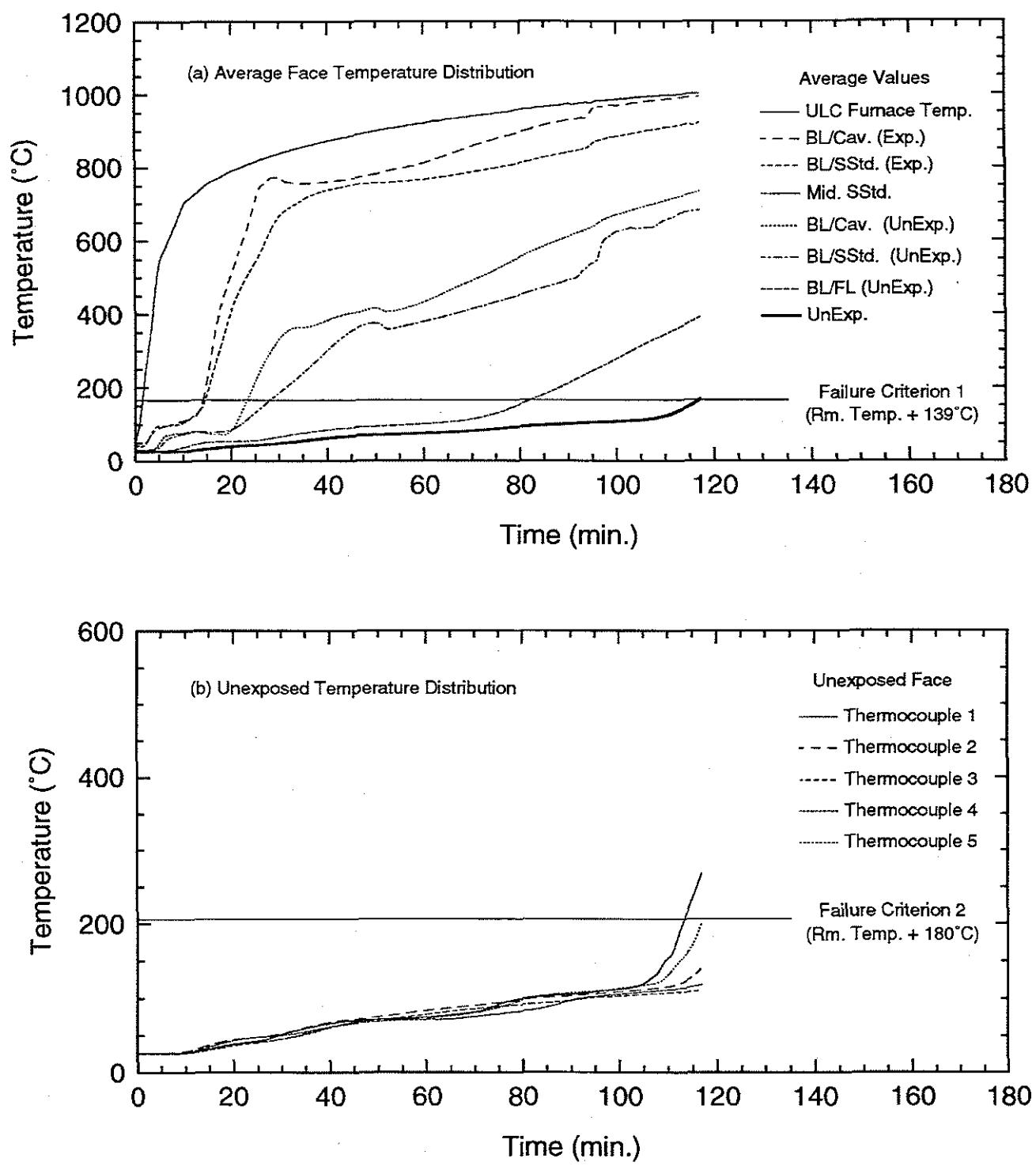


Figure 40. Temperature Distributions For Small Scale Test Assembly S-26

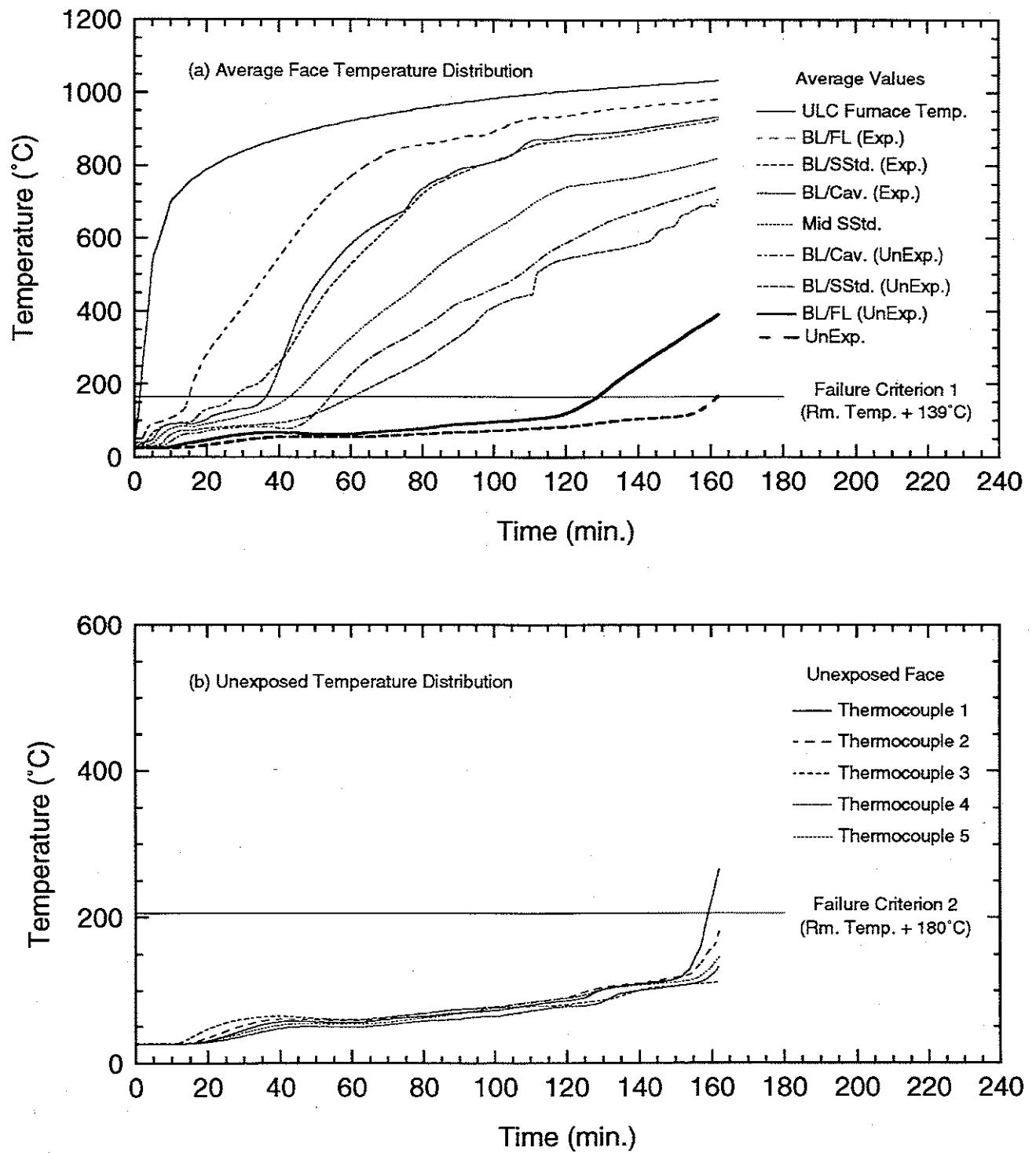


Figure 41. Temperature Distributions For Small Scale Test Assembly S-27

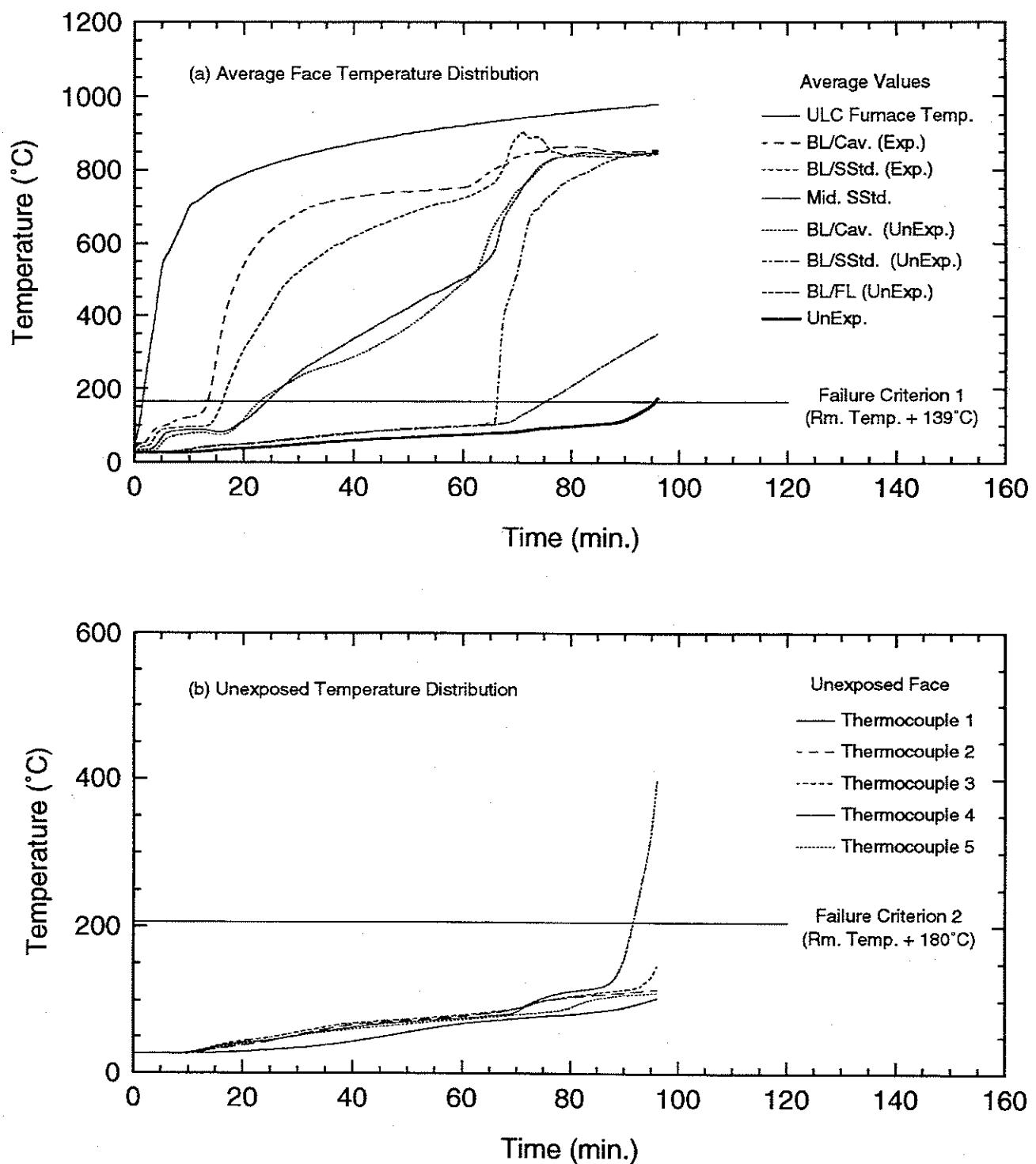


Figure 42. Temperature Distributions For Small Scale Test Assembly S-28

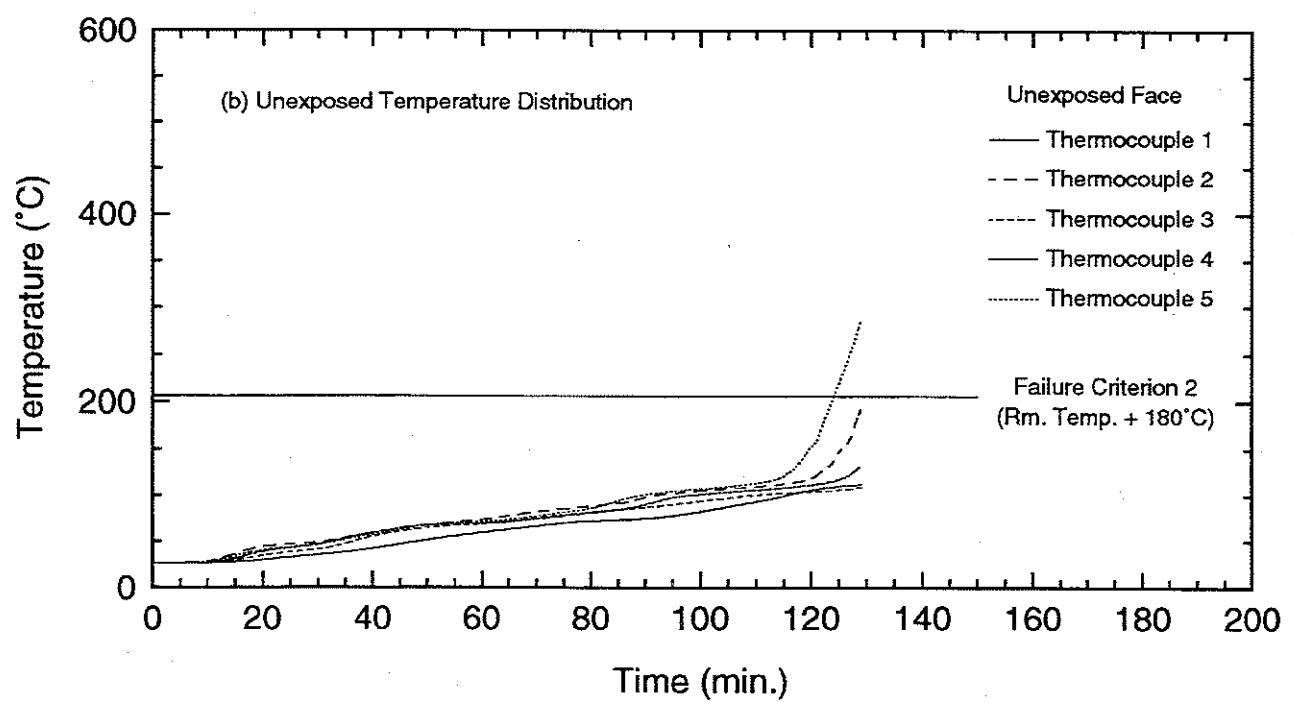
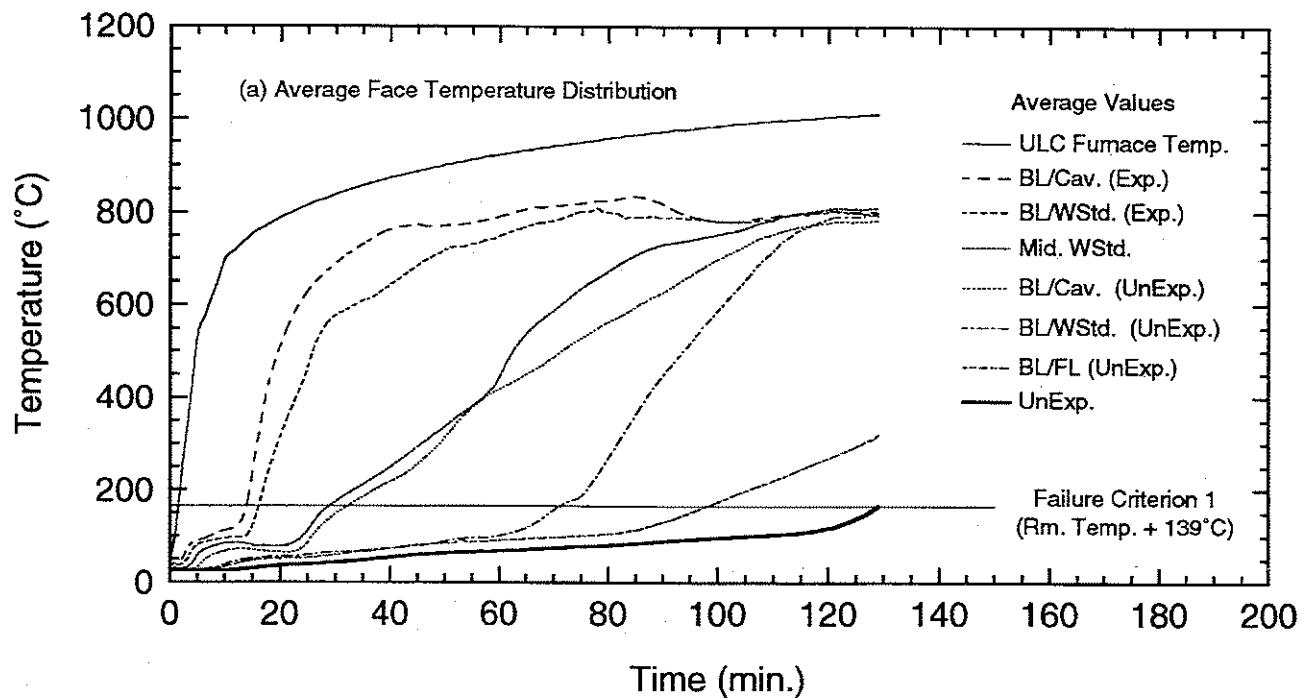


Figure 43. Temperature Distributions For Small Scale Test Assembly S-29

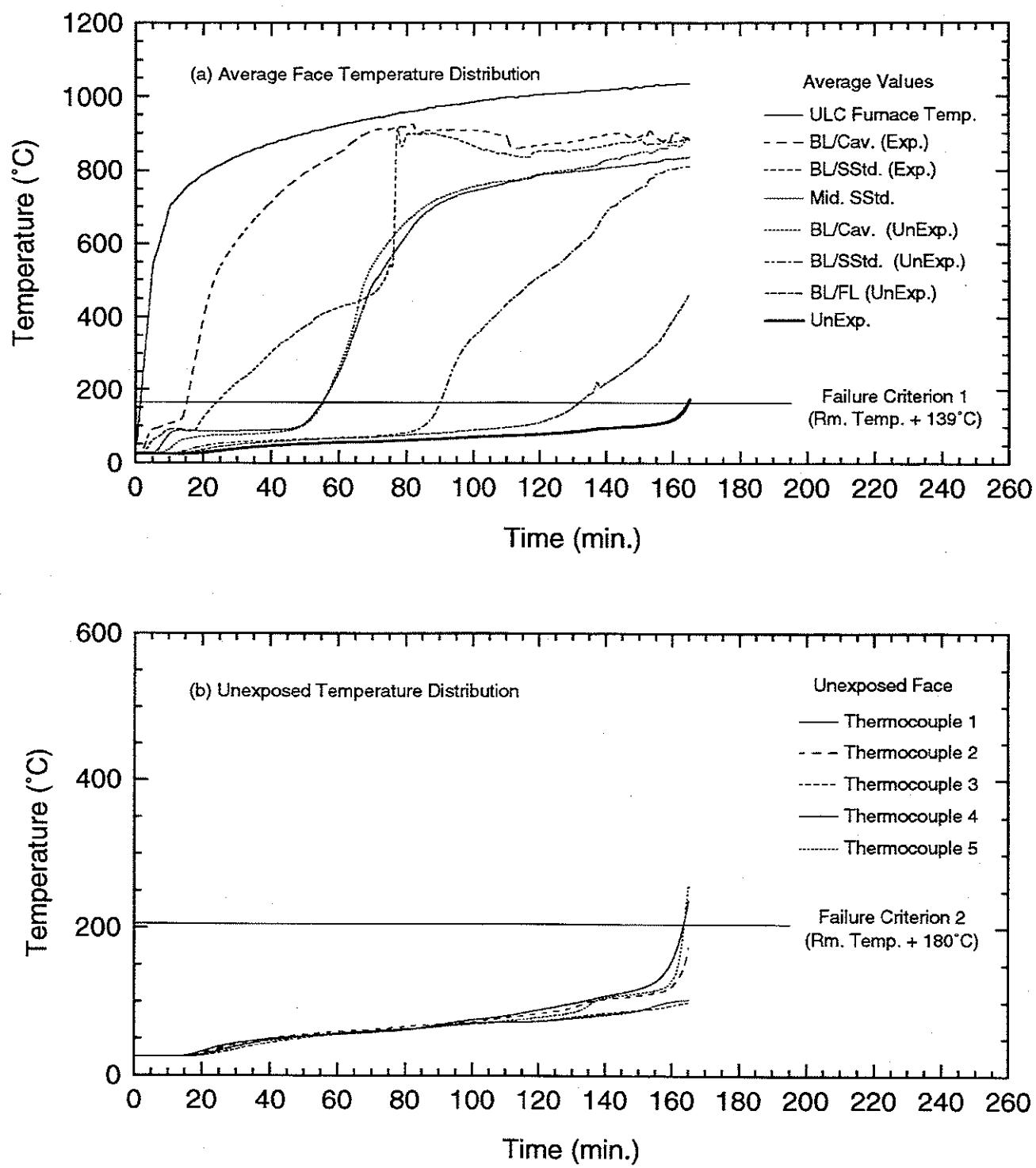


Figure 44. Temperature Distributions For Small Scale Test Assembly S-30

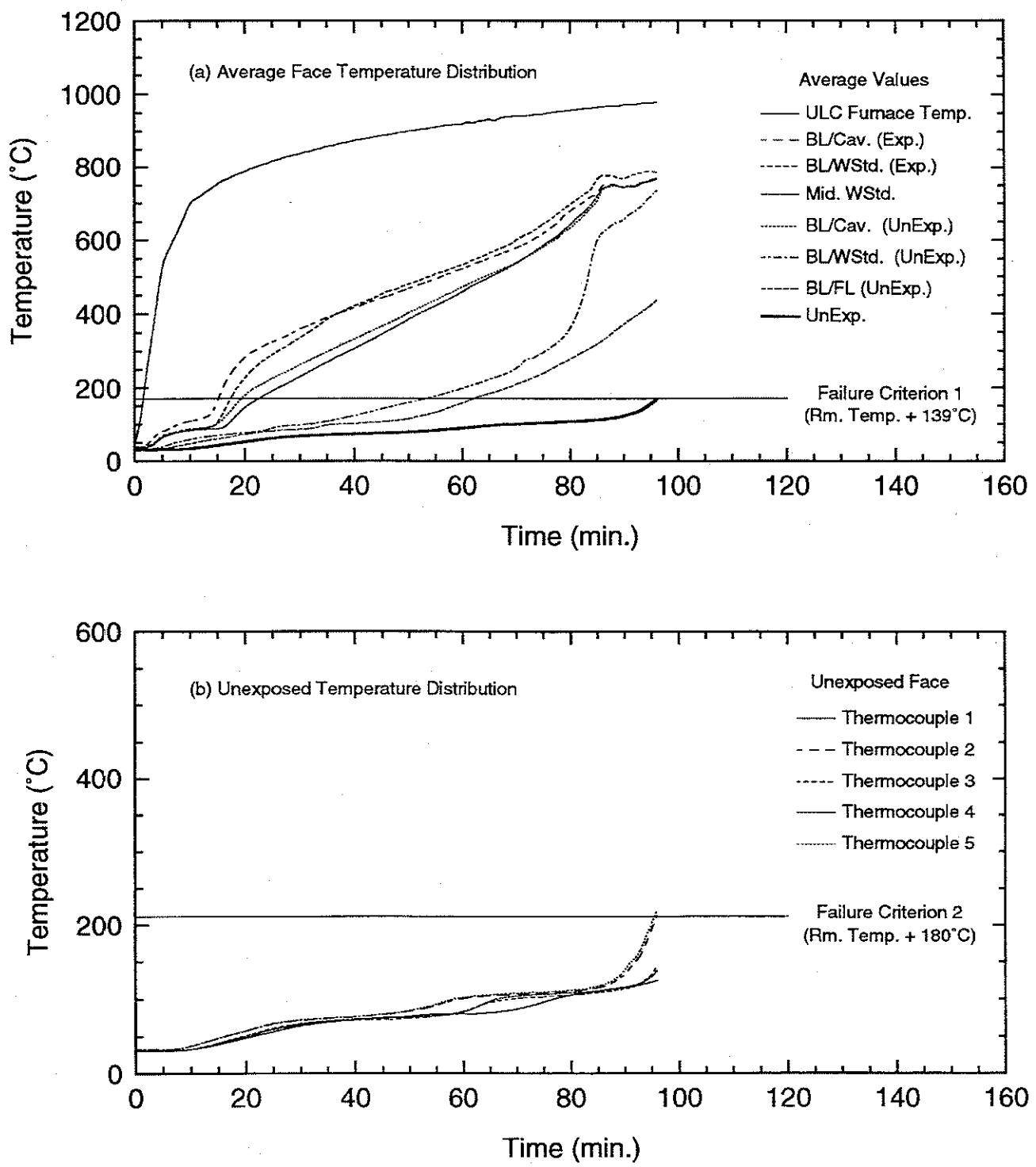


Figure 45. Temperature Distributions For Small Scale Test Assembly S-31

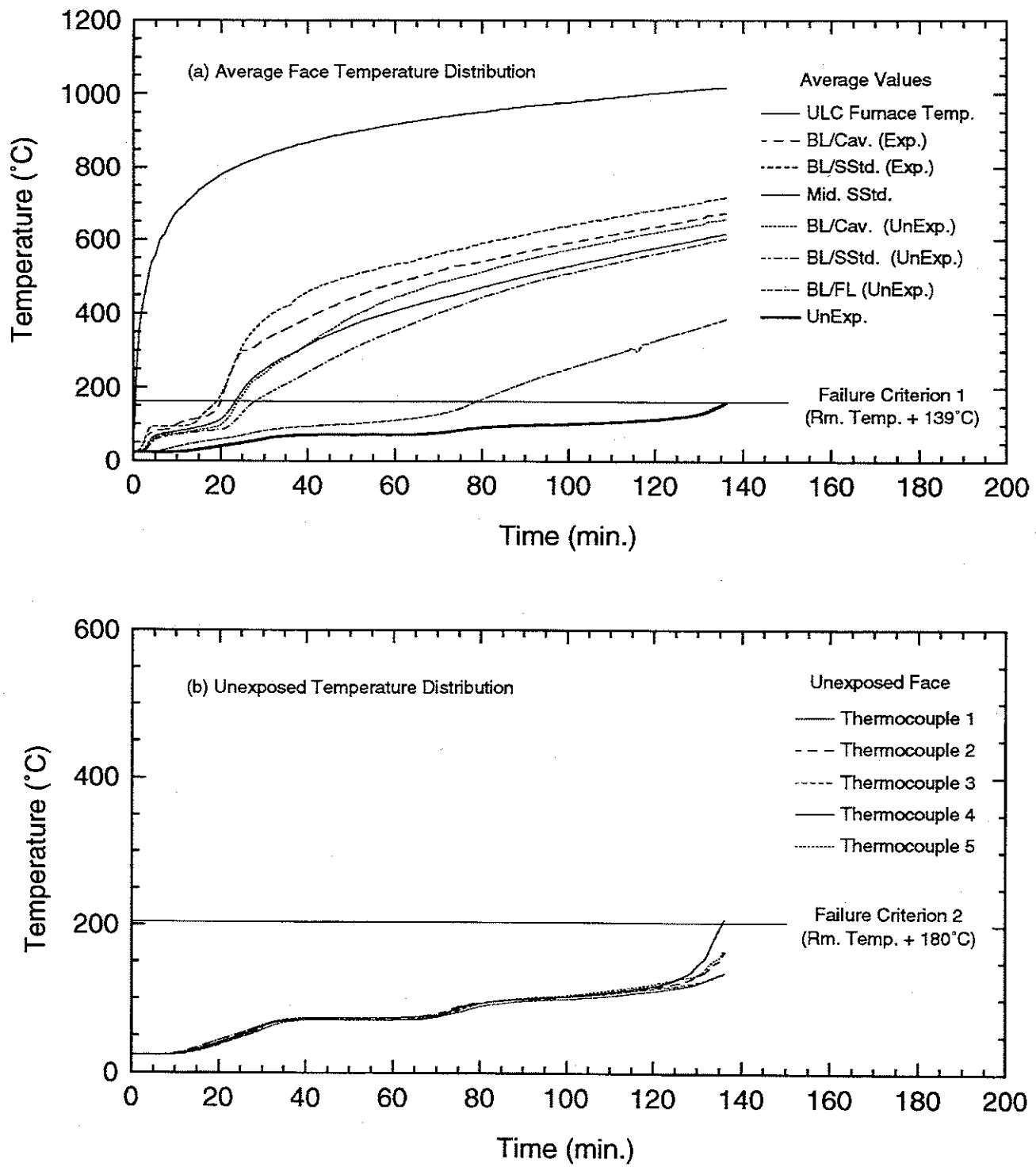


Figure 46. Temperature Distributions For Small Scale Test Assembly S-41

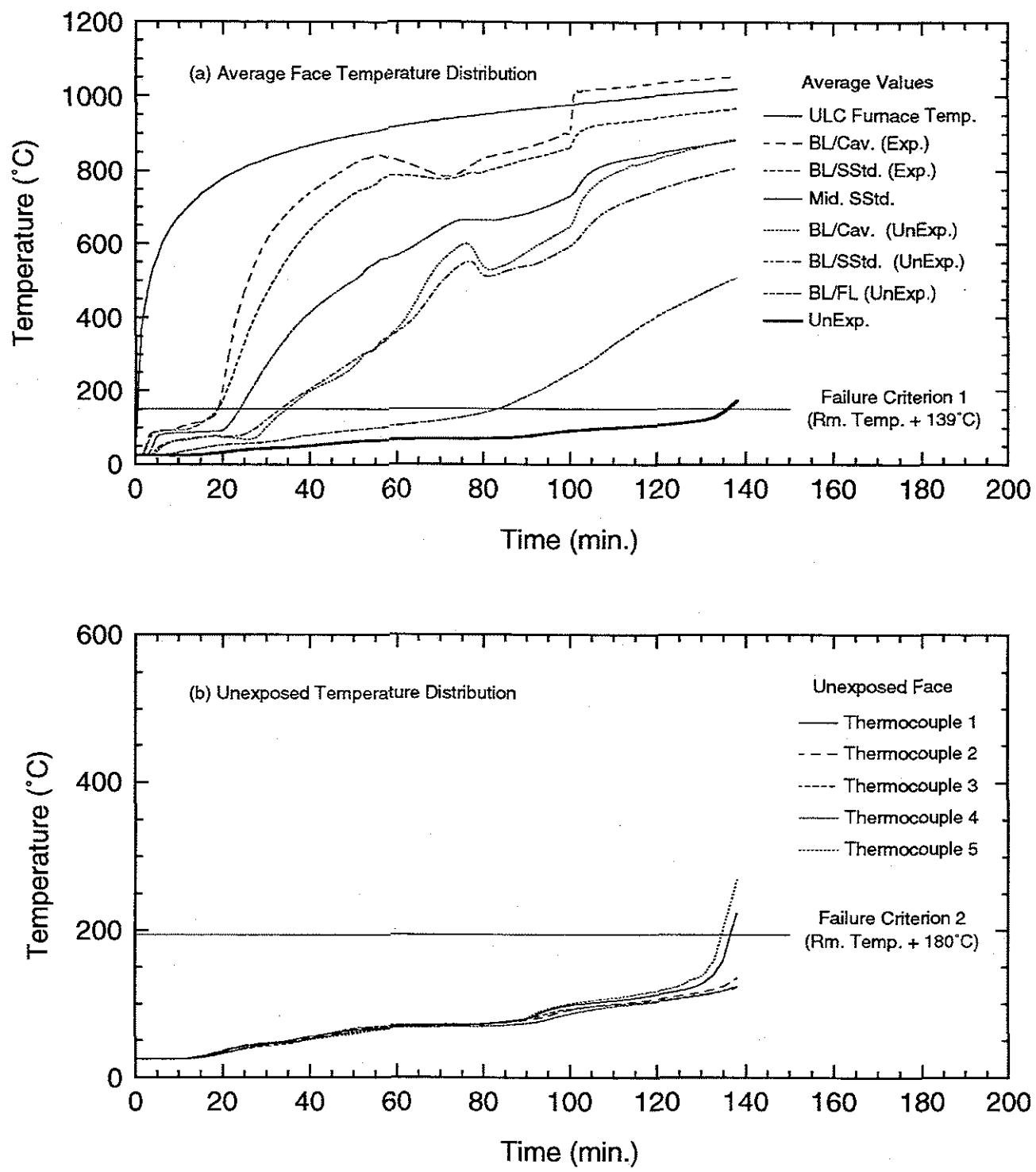


Figure 47. Temperature Distributions For Small Scale Test Assembly S-42

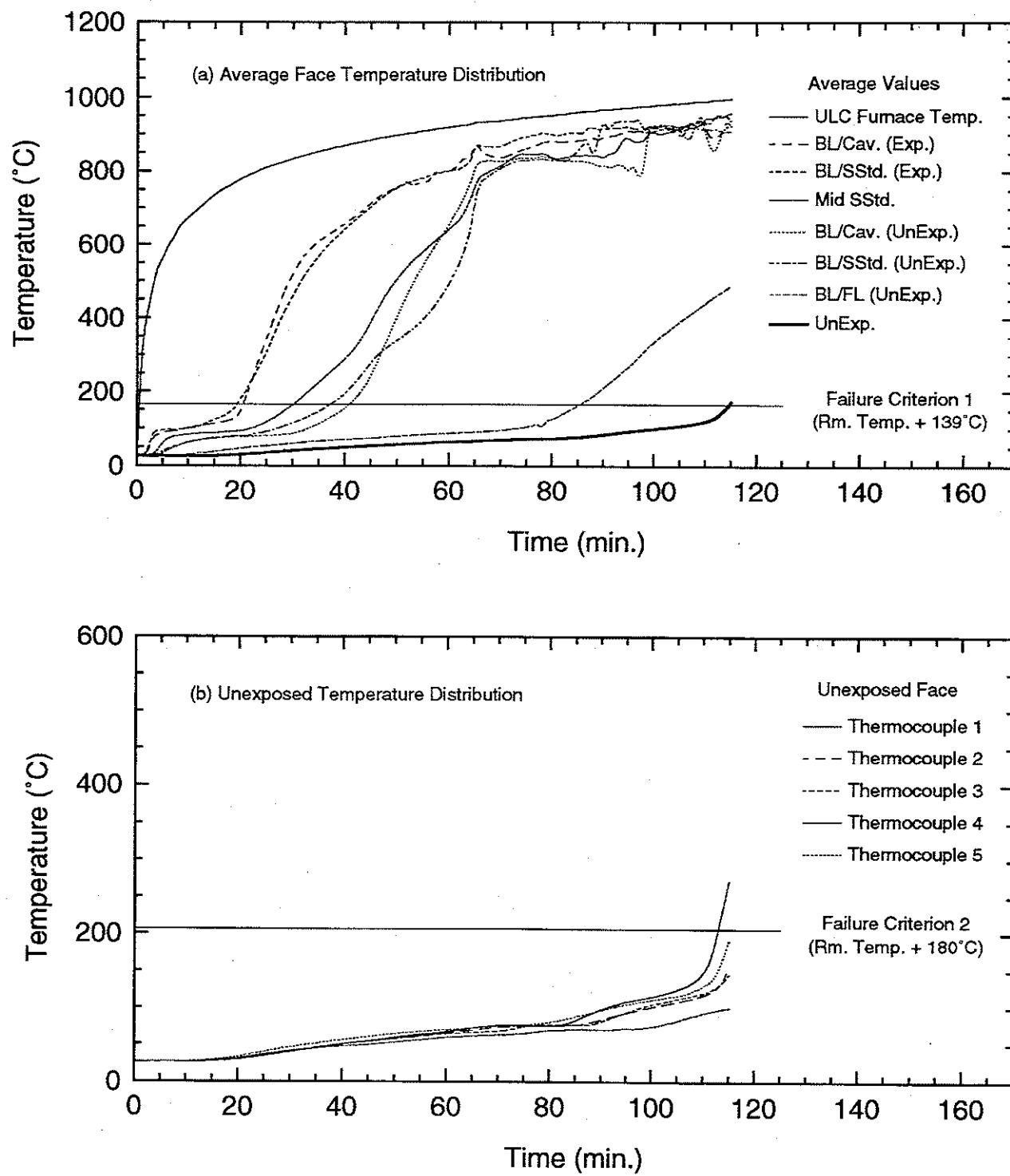


Figure 48. Temperature Distributions For Small Scale Test Assembly S-43

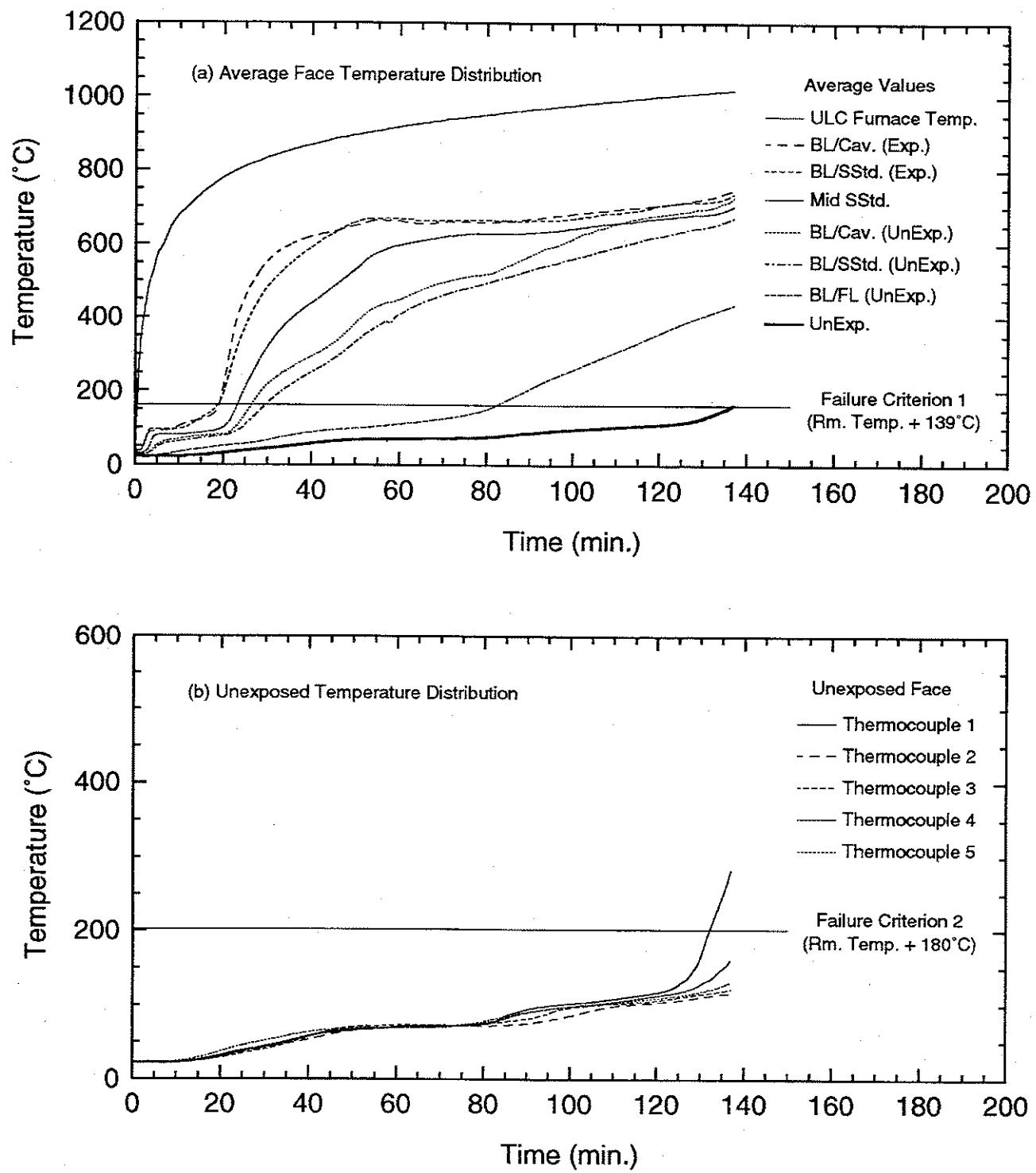


Figure 49. Temperature Distributions For Small Scale Test Assembly S-44

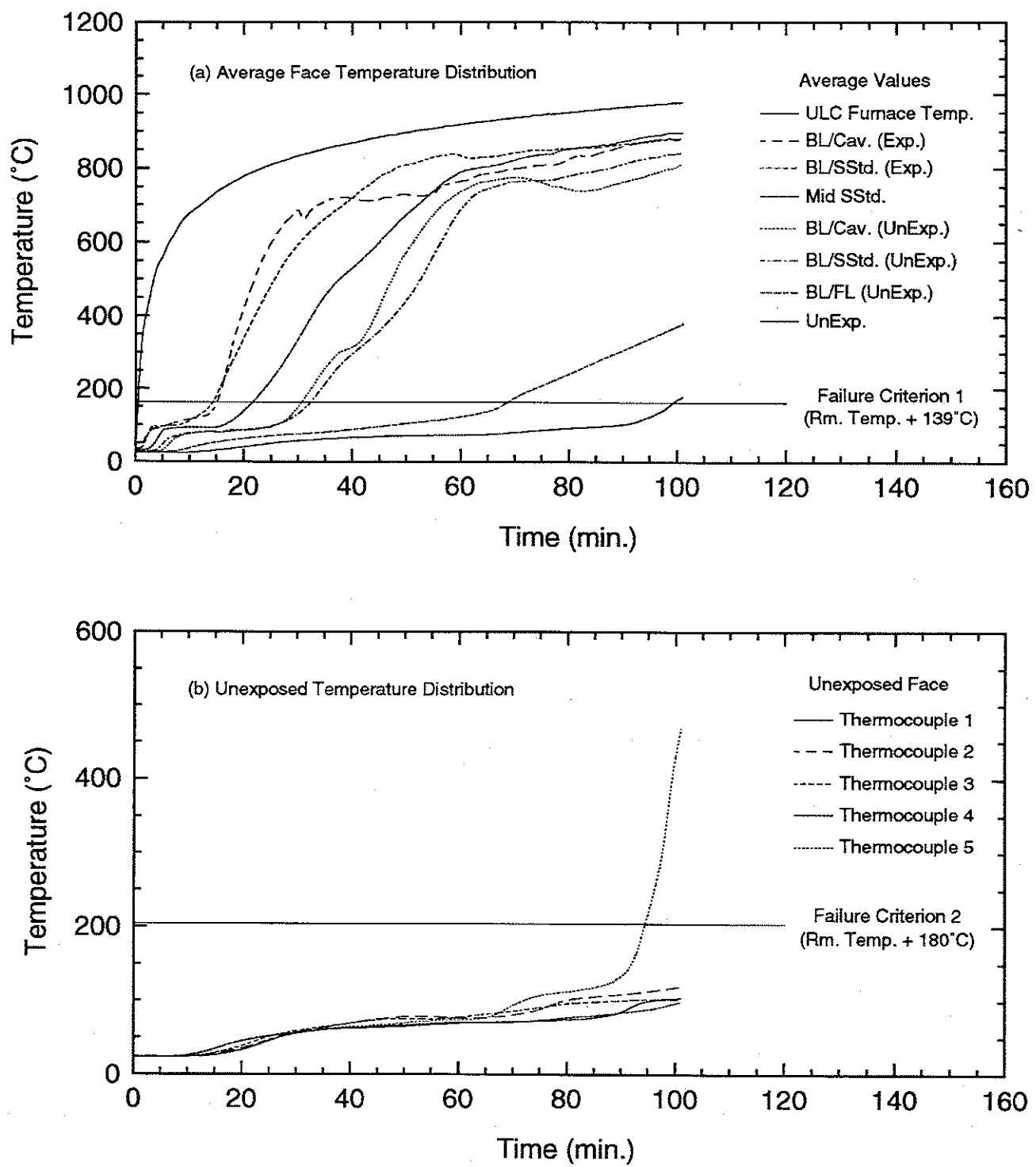


Figure 50. Temperature Distributions For Small Scale Test Assembly S-46

1x1, 12.7 mm Thick Type X Gypsum Board on Steel Stud Assemblies

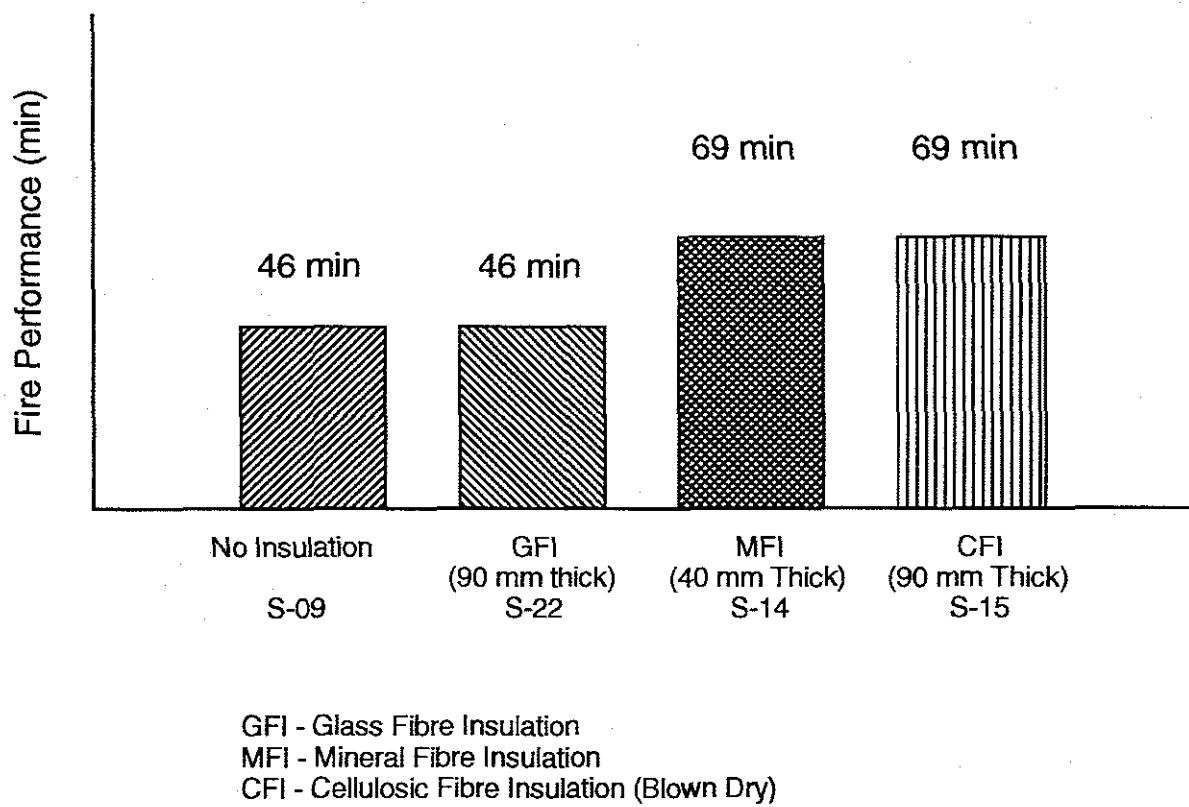


Figure 51. Effect of Insulation on the Fire Performance of 1x1 Steel Stud Small-Scale Wall Assemblies

Assymmetrical 1x2, 12.7 mm Thick Type X Gypsum Board on Steel Stud Assemblies

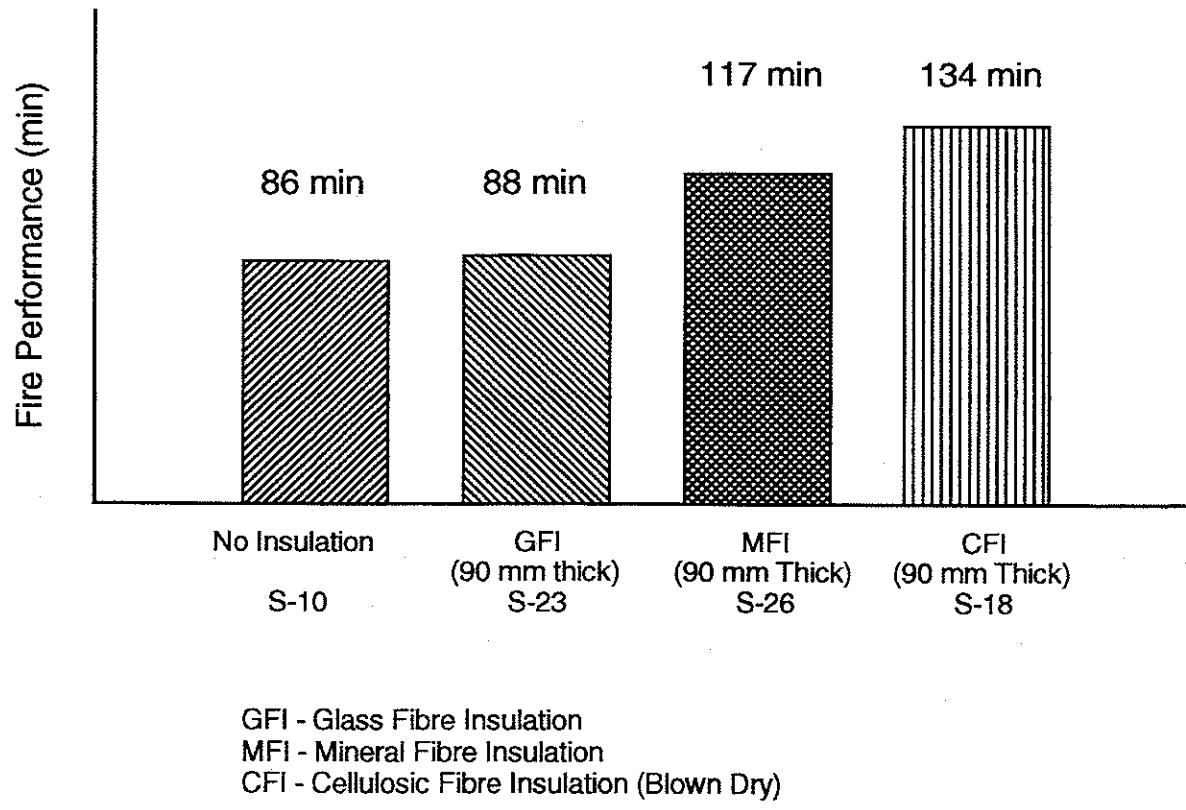


Figure 52. Effect of Insulation on the Fire Performance of 1x2 Steel Stud Small-Scale Wall Assemblies

2x2, 12.7 mm Thick Type X Gypsum Board on Steel Stud Assemblies

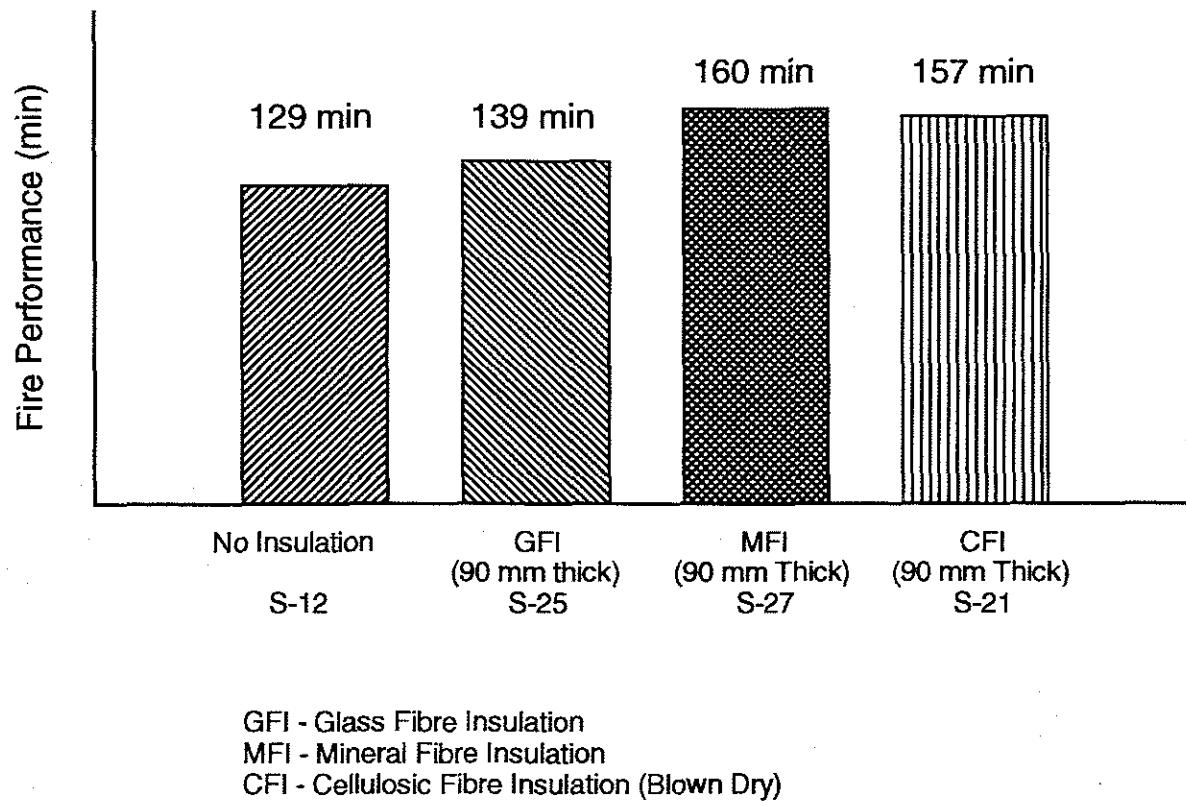


Figure 53. Effect of Insulation on the Fire Performance of 2x2 Steel Stud Small-Scale Wall Assemblies

Assymmetric 1x2, 15.9 mm Thick Type X Gypsum Board on Steel Stud Assemblies

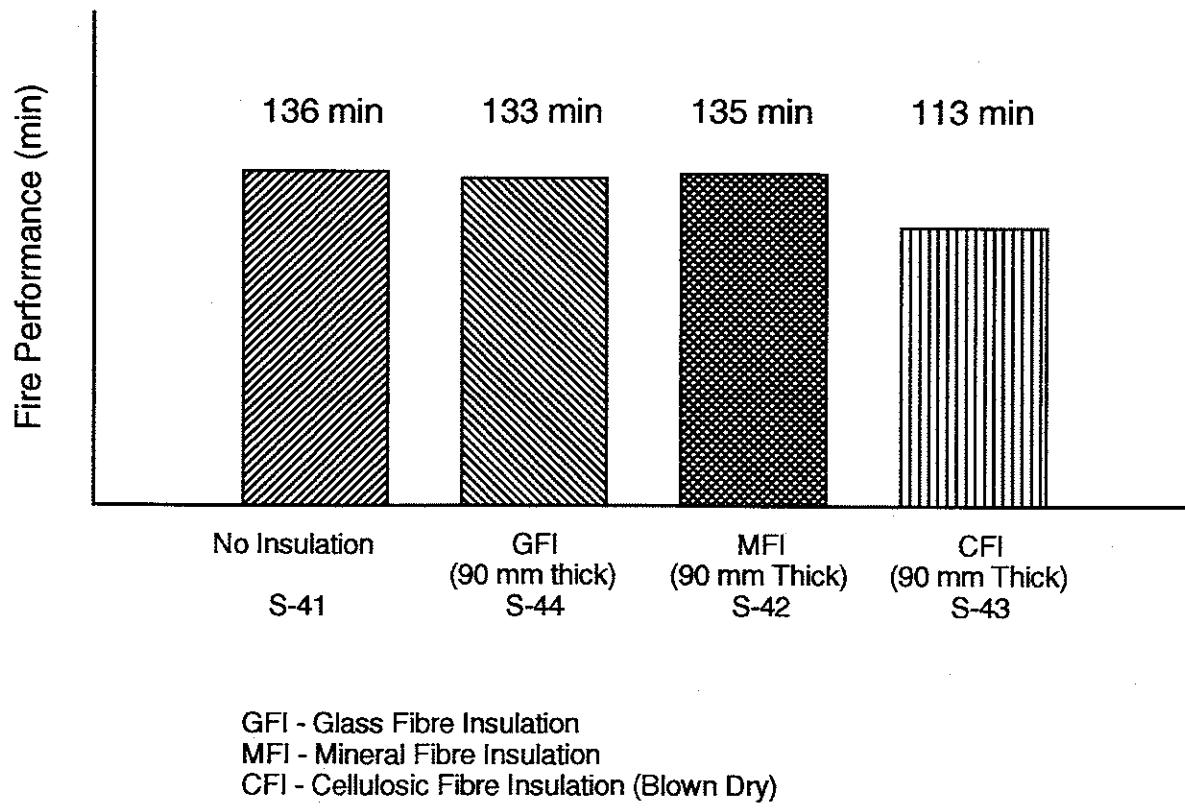


Figure 54. Effect of Insulation on the Fire Performance of 1x2 Steel Stud Small-Scale Wall Assemblies

Assymmetric 1x2, 12.7 mm Thick Type X Gypsum Board on Steel Stud Assemblies

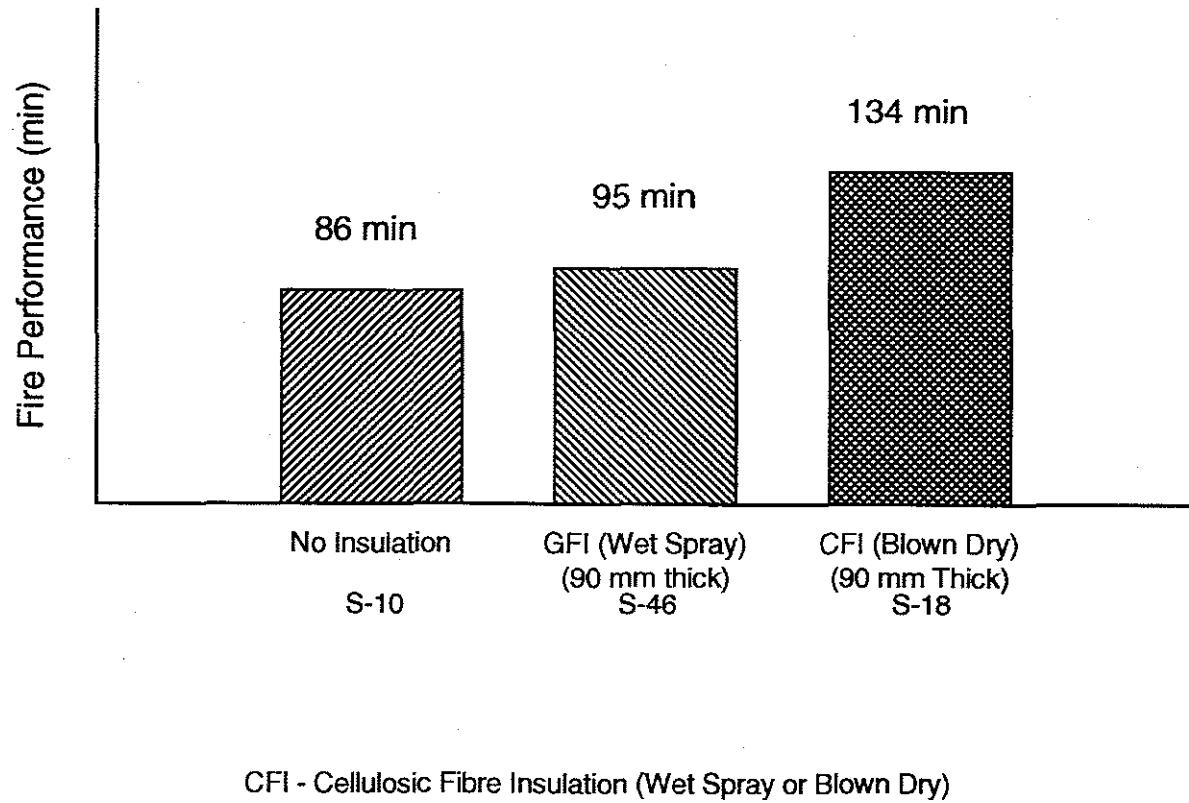


Figure 55. Effect of Types of Cellulose Fibre Insulation Applications on the Fire Performance of 1x2 Steel Stud Small-Scale Wall Assemblies

**Assymmetric 1x2, 12.7 mm Thick Type X Gypsum Board With Resilient Channels
Wallboard on Wood Stud Assemblies**

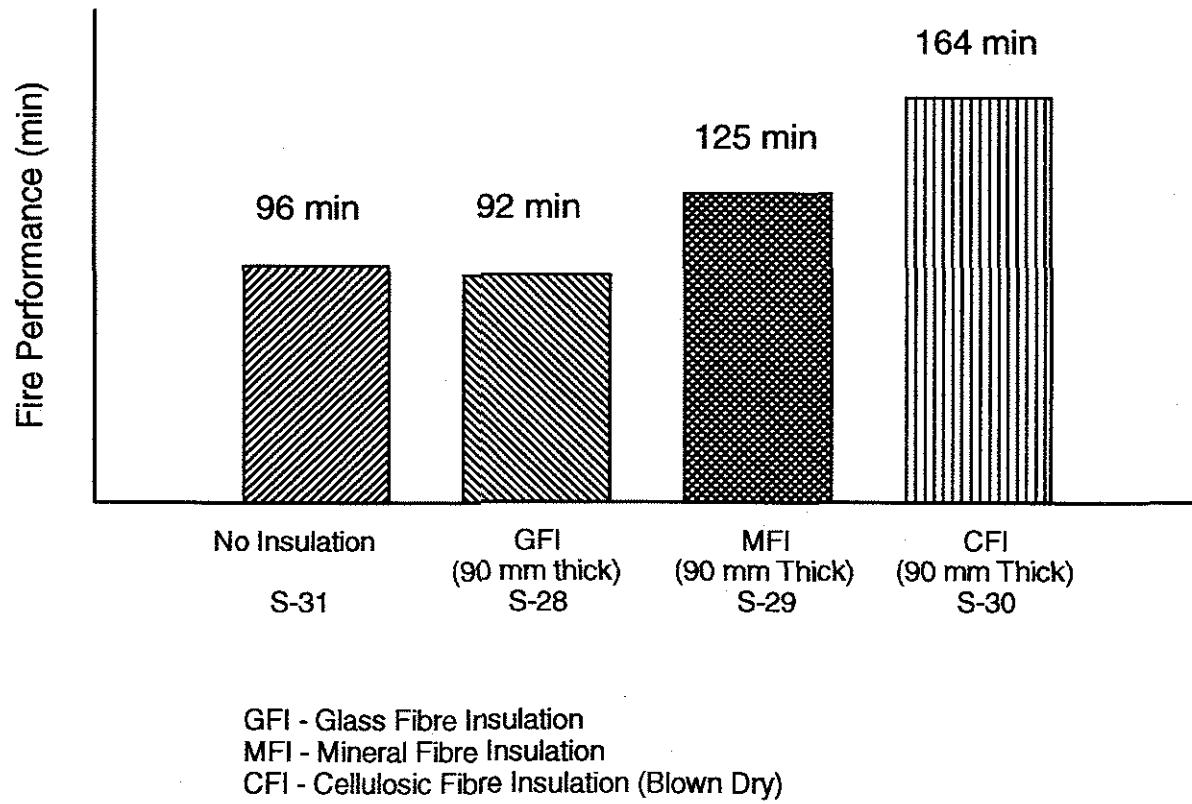


Figure 56. Effect of Insulation on Fire Performance of 1x2 on Wood Stud Small-Scale Wall Assemblies

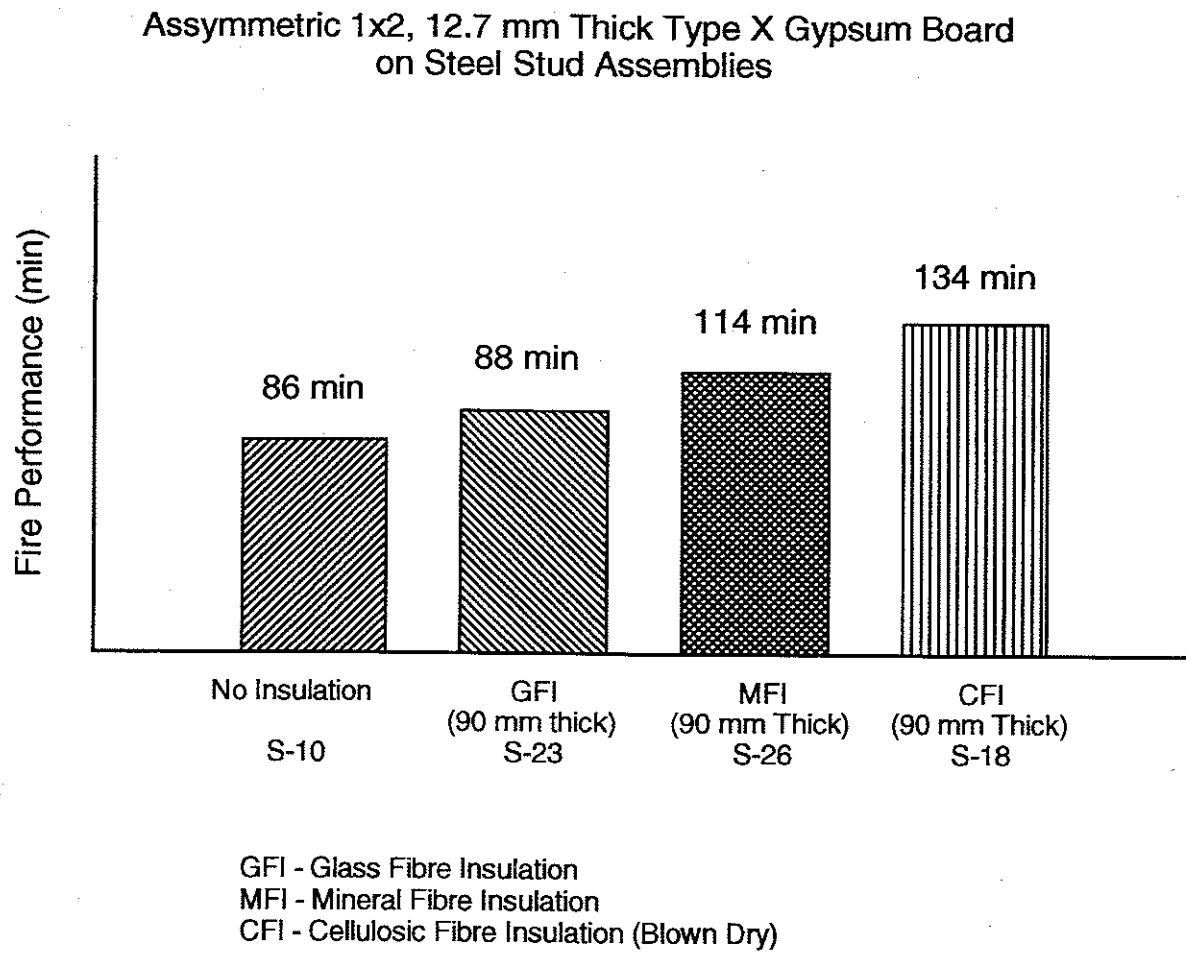


Figure 57. Effect of Insulation on the Fire Performance of 1x2 Steel Stud Assemblies