

STONEPEAK CERAMICS, INC. FIRE TEST REPORT

SCOPE OF WORK

NFPA 285 TESTING ON EXTERIOR NON-LOAD-BEARING WALL ASSEMBLY CONTAINING STONEPEAK CERAMICS, INC. GRANITECH GHV VENTILATED FAÇADE SYSTEM WITH EXPOSED FASTENING

REPORT NUMBER

K1291.01-121-24

TEST DATE(S)

10/25/19

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01/28/20

REVISION DATE

02/06/20

RECORD RETENTION END DATE

10/25/23

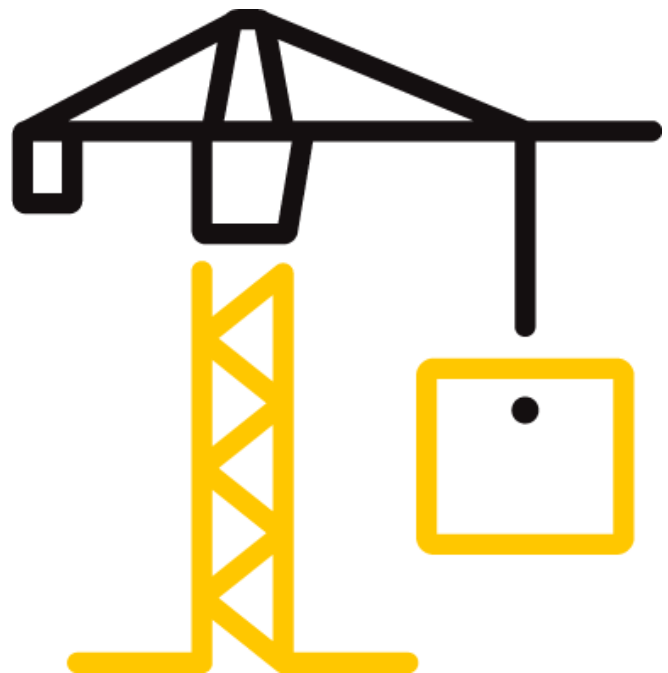
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TEST REPORT FOR STONEPEAK CERAMICS, INC.

Report No.: K1291.01-121-24

Date: 01/28/20

Revision Date: 02/06/20

REPORT ISSUED TO

STONEPEAK CERAMICS, INC.

314 West Superior

Chicago, Illinois 60654

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by StonePeak Ceramics Inc, 314 West Superior, Chicago, Illinois 60654 to evaluate the flame propagation characteristics of an exterior, non-load-bearing wall assembly containing Granitech GHV Ventilated Façade System with Exposed Fastening. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania. Results obtained are tested values and were secured by using the designated test method(s). A summary of test results and the complete graphical test data is reported herein.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

Wall System: Exterior Non-load-bearing Wall Assembly

Combustible Components: Interior Gypsum, Exterior Gypsum, 3M™ Air and Vapor Barrier 3015VP, Granitech Panels

NFPA 285 Test Results

The assembly described and tested in this report **did** meet the Conditions of Acceptance of NFPA 285. Construction of the full assembly is summarized in Section 7 of this test report.

For INTERTEK B&C:

COMPLETED BY:	Nathan Brillhart	REVIEWED BY:	Ethan Grove
TITLE:	Technician – Fire Testing	TITLE:	Manager – Fire Testing
SIGNATURE:		SIGNATURE:	
DATE:	02/06/20	DATE:	02/06/20

NDB:ddr

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SECTION 3

TEST METHOD

The assembly was evaluated in accordance with the following:

NFPA 285-19, *Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components*

SECTION 4

MATERIAL SOURCE/INSTALLATION

The components of the test assembly were provided by the client except for the core wall components that were acquired and assembled by Intertek B&C personnel.

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
John Penta	StonePeak Ceramics, Inc.
Scott Gingrich	Intertek B&C
Mark Dluzeski	Intertek B&C
Logan Chronister	Intertek B&C
Nate Brillhart	Intertek B&C

SECTION 6

TEST PROCEDURE

The wall assembly was instrumented with thermocouples (TCs) in accordance with figures 6.1(a) and 6.1(b) of NFPA 285 test method. 18-gauge Type "K" TCs were used in the burn room and 20-gauge Type "K" was used on exterior façade and cavity air space. The window burner was positioned in the center of the opening and 3 in. off the exterior face of the wall assembly. Testing was performed on 10/25/2019 in accordance with NFPA 285 test method. Ambient conditions were 66°F and 51% relative humidity. An anemometer was used to verify airflow across test assembly was less than 4 ft./sec as specified in the test method. Video recording, digital photographs, visual observations, and data collection were performed prior, during, and after testing was completed. Temperature data was recorded every 15 seconds. The test was performed at 01:00 PM with the burners on for 30 minutes. All observations are recorded in the table located in Section 8.

The apparatus is considered to be under calibrated conditions when the time average temperatures and the time average heat flux readings obtained for a calibration wall match the requirements of Table 8.1.6 of NFPA 285. Calibration was performed on February 19, 2019 with natural gas as the fuel source and the window burner placed 3 inches from the exterior surface of

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the assembly. Table 6.1 of this section shows the average burner flow and heat flux. Table 6.2 shows the time average temperatures obtained during the calibration test.

Table 6.1 Average Burner Output Information

TIME INTERVAL (MIN:SEC)	ROOM BURNER (SCFM)	WINDOW BURNER (SCFM)	2 FT FLUX (W/cm ²)	3 FT FLUX (W/cm ²)	4 FT FLUX (W/cm ²)
0:00-5:00	35.4	0.0	1.2	0.9	0.9
5:00-10:00	35.5	4.2	2.3	1.7	1.6
10:00-15:00	43.7	5.5	2.9	2.3	2.2
15:00-20:00	43.6	8.0	3.3	2.6	2.4
20:00-25:00	43.7	10.9	3.8	3.0	2.6
25:00-30:00	47.3	15.5	4.3	3.5	3.2

Table 6.2 Average Time Temperature Values for Calibration

TIME INTERVAL (MIN:SEC)	THERMOCOUPLE LOCATIONS							
	BURN ROOM (°F)	INT. WALL (°F)	1FT (°F)	2FT (°F)	3FT (°F)	4FT (°F)	5FT (°F)	6FT (°F)
0:00-5:00	1093	1045	657	727	611	631	556	448
5:00-10:00	1242	1199	904	1002	891	916	819	665
10:00-15:00	1419	1377	1011	1130	1034	1054	945	791
15:00-20:00	1472	1434	1037	1179	1097	1093	967	843
20:00-25:00	1493	1462	1049	1221	1158	1154	1014	908
25:00-30:00	1568	1545	1067	1266	1229	1222	1113	1004

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SECTION 7**TEST ASSEMBLY DESCRIPTION****Interior Cladding**

The full interior surface of the wall assembly was clad with 5/8 in. thick National Gypsum Gold Bond® Fire-Shield® gypsum board meeting the requirements of ASTM C1396. The gypsum board was fastened to the wall framing with #6 x 1-1/4 in. long, bugle head, self-drilling screws with a nominal spacing of 8 in. around the board perimeter and 12 in. in the field. Drywall orientation on the burn floor consisted of four pieces of gypsum board fastened to the core wall, with the run edge running parallel with the framing and the cut edge perpendicular to the framing. Drywall orientation on the second floor consisted of vertically oriented boards with the run edge running parallel with the framing and the cut edge perpendicular to the framing. Drywall orientation for the areas above the top support angle and below the bottom support angle consisted of boards that were oriented with the run edge perpendicular with the framing. All joints were taped with USG Sheetrock® Brand paper joint tape and spackled with USG Sheetrock® Brand joint compound. All fastener heads were spackled with USG Sheetrock® Brand joint compound.

Framing

The core wall was consisted of 18 ft. long, 6 in. deep, 16 gauge galvanized steel studs fastened to 14 ft. length, 6 in. deep, 16 gauge galvanized steel track every 16 inches on center. The studs were connected to the track with one #6 x 1/2 in. long self-drilling, pan head fastener per stud flange. Two additional 18 ft. long, 6 in. deep, 16 gauge studs were used as king studs for the window opening jambs. Johns Manville MinWool® Safing pieces with a nominal density of 4.0 lb. /cu. ft. were installed per the manufacturer's installation instructions to fit into each stud cavity placed at the second story floor line. The safing length dimensions were no less than the apparatus floor slab thickness of 8 in.

Exterior Sheathing

5/8 in. thick National Gypsum Gold Bond® eXP® exterior gypsum sheathing, meeting the requirements of ASTM C1177, was placed horizontally across the full exterior surface of the assembly. The gypsum sheathing was fastened to the wall framing with #6 x 1-1/4 in. long, bugle head, self-drilling screws with a nominal spacing of 8 in. around the board perimeter and 12 in. in the field.

Water-resistive Barrier

3M™ Air and Vapor Barrier 3015VP, a self-adhered vapor permeable membrane, was applied vertically over the exterior sheathing. The membrane covered the entire exterior surface and overlapped 2 inches on the ends. 3M™ Air and Vapor Barrier 3015 was applied after the 3015VP around the window opening and coverage extended 4 in. from the opening over the 3015VP.



Total Quality. Assured.

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SECTION 7 (CONTINUED)**TEST ASSEMBLY DESCRIPTION****Window Opening**

A 78 in. wide x 30 in. tall window opening was made from 16-gauge galvanized steel track. The opening was centered on the vertical centerline of the wall assembly with the finished sill located 30 in. above the first story floor line. The steel track sections were mechanically fastened with #6 x 1/2 in. long self-drilling, pan head fasteners at each corner. Upon the completion of the exterior sheathing, 3M™ Air and Vapor Barrier 3015 was applied at the window opening. The coverage extended 4 in. from exterior surface around the opening to the interior edge. 3 in. long 2-9/16 in. face x 2-1/16 in. leg x 1/16 in. thick aluminium T-profile with the face parallel with the window opening header and sill were fastened at the leg to the T-profiles supporting the exterior cladding. 30 in. long 2-9/16 in. x 2-1/16 in. x 1/16 in. aluminium T-profile was installed at the window opening jambs with the face parallel in-line with the jamb framing. The T-profile was fastened to two 2-15/16 in. long 3-15/16 in. x 1-9/16 in. x 1/8 in. L-brackets spaced 9 in. from the ends of the T-profile. The L-brackets were then secured to the vertical T-profiles located adjacent to the window opening. Exposed panel clips were riveted using two FAR 4,8x12x14mm stainless steel rivets to each of the T-profiles at the window opening header and sill. Exposed panel clips were riveted to the top and bottom of the T-profiles at the window jambs so the clips would rest on top of the stone panels installed at the window header and sill. 11-3/4 in. wide x 38-7/8 in. long stone panels were installed at the header and sill with a 1/4 in. gap centered on the window opening centerline. 11-3/4 in. wide x 26-3/4 in. long stone panels were installed at the jambs.

Exterior Insulation

ROCKWOOL CAVITYROCK®, 2 in. thick was installed across the entire assembly after the installation of the aluminium hat channel. The insulation was held in place with Grip-Lok MW Plates bent flush against the surface of the insulation. Each plate was fastened at stud locations using two 1-3/4 in. long pancake head screws with a gasket.

Exterior Cladding

8-1/8 in. x 1 in. x 1/8 in. and 4-3/4 in. x 1 in. x 1/8 in. aluminium hat channel were fastened on stud locations using two 6,3x32 HWH self-drilling screws. The location of the hat channel matched the drawings found in Section 14. 4-1/8 in. x 1-9/16 in. x 1/8 in. L-brackets with lengths matching the corresponding hat channel were installed 19 in. O.C. using 1/4x1 HWH self-drilling screws. A single fastener was used in conjunction with 2-15/16 in. long brackets and two fasteners for the 6-1/8 in. long brackets. 2-9/16 in. face x 2-1/16 in. leg x 1/16 in. thick aluminium T-profile oriented vertically was aligned top to bottom with the rows of L-brackets. The leg of the T-profile was secured to the L-brackets using 1/4x1 HWH self-drilling screws. Aluminium GHV Exposed Clips

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were riveted to the T-profile using two FAR 4,8x12x14mm stainless steel rivets per clip. GHV Exposed Double Clips were used at the top and bottom of the assembly and GHV Exposed Cross

SECTION 7(CONTINUED)

TEST ASSEMBLY DESCRIPTION

Clips were used in the field. Clips were located at the four corners of each panel with an additional clip centered horizontally at the top and bottom of the panels. Granitech panels, consisting of 10mm thick stone adhered to fiberglass reinforcing mesh, covered the entire exterior surface of the assembly. Panels were installed with a 1/4in. gap at the horizontal and vertical joints. Upon completion of the exterior cladding a 3 in. gap was created between the rear of the panels and insulation surface. A vertical joint was located on the window opening centerline and extended the full height of the assembly. A horizontal joint was located 18 in. above the window opening and extended the full width of the assembly.

SECTION 8

TEST OBSERVATIONS

TIME (Min:Sec)	OBSERVATIONS
00:00	Ignition of room burner.
01:20	Smoke emits from joint immediately above the window opening.
01:45	Interior gypsum paper ignites.
05:00	Ignition of window opening burner.
07:30	Piece of right window header tile flashing crack and drops.
11:53	Remaining right window header tile drops.
12:17	Left window header tile drops.
14:49	Flames behind exterior cladding reach a height of 6 ft. above the window opening header.
16:16	Tile on the right jamb falls.
16:43	Tile on the left jamb falls.
30:00	Burners Extinguished. Post-test 10-minute observation period begins.
32:21	First row of panels directly above the window opening fall.
40:00	Post-test 10-minute observation period ends; test concluded.

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SECTION 9

TEST RESULTS

TEST REQUIREMENTS	TEST RESULTS	PASS/FAIL
Flames did not reach 10 ft. above the window opening header.	Flames did not reach 10 ft. above the window opening header.	PASS
Flames did not reach a lateral distance of 5 ft. from the vertical centerline.	Flames did not reach a lateral distance of 5 ft. from the vertical centerline.	PASS
Flames did not propagate beyond the limits of the first story test room.	Flames did not propagate beyond the limits of the first story test room.	PASS
No visible flaming in the second story test room	No visible flaming in the second story test room.	PASS
TC's 11 and 14-17 (1000°F limit)	TC's 11 and 14-17 did not exceed their 1000°F limit.	PASS
TC's 18-19, 28, and 31-40 (1000°F limit)	TC's 18-19, 28, and 31-40 did not exceed their 1000°F limit.	PASS
TC's 49-54 (500°F above ambient)	TC's 49-54 did not exceed 500°F above their ambient temperatures.	PASS

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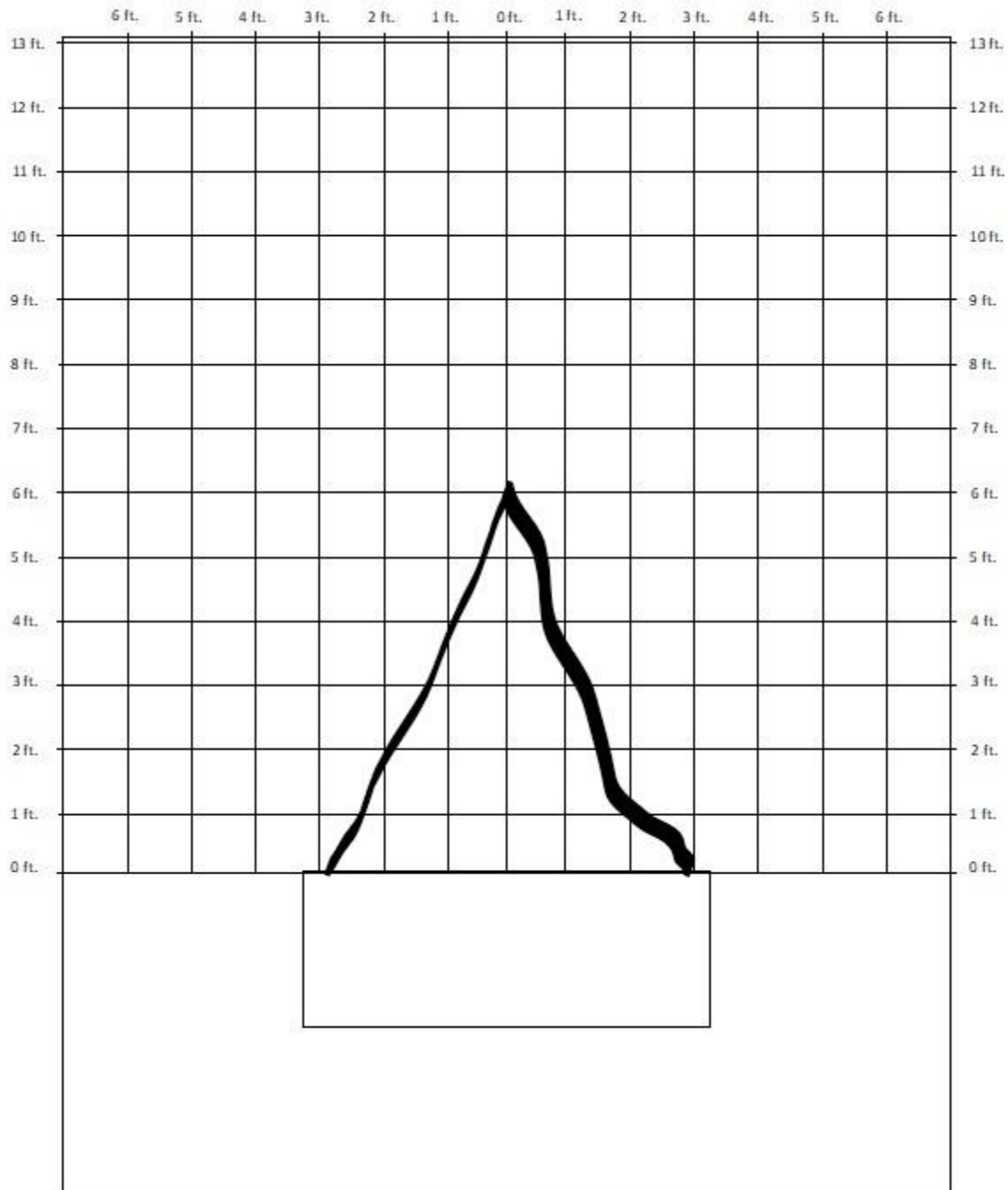
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SECTION 10

SKETCH OF EXTERIOR CLADDING BURN PATTERN



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SECTION 11

PHOTOGRAPHS



Photo No. 1
Core Wall Framing Completed

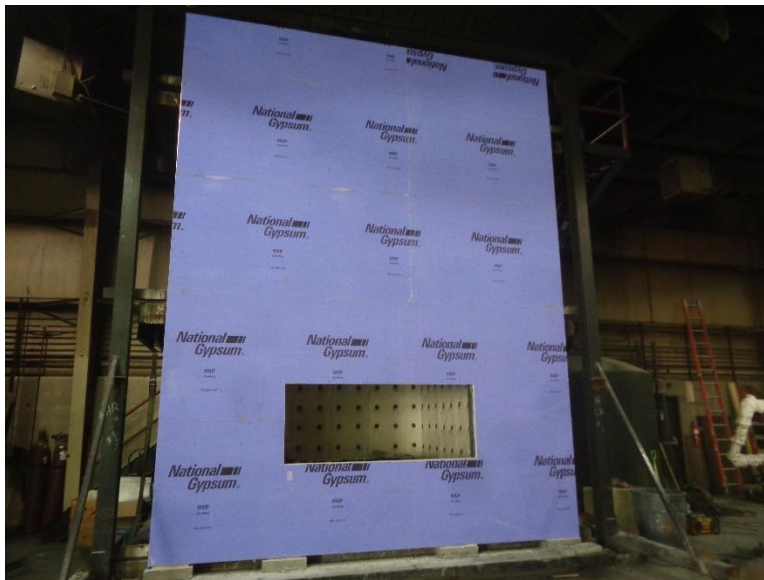


Photo No. 2
Exterior Sheathing Installed

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PHOTOGRAPHS



Photo No. 3

AWB Application Completed and Horizontal Hat Channel Installation



Photo No. 4

Installation of Exterior Insulation and Vertical Support

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PHOTOGRAPHS

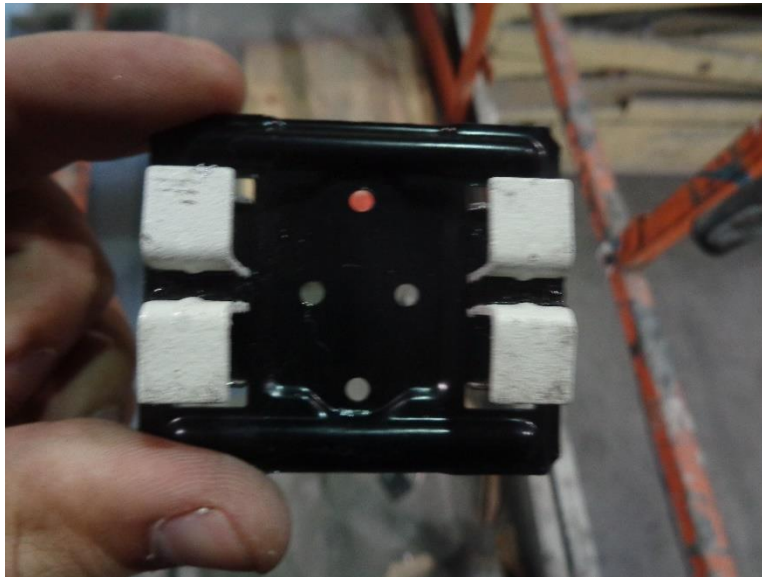


Photo No. 5
Typ. GHV Exposed Clip



Photo No. 6
Installation of Panels

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PHOTOGRAPHS



Photo No. 7
Safing Installation



Photo No. 8
First Story Interior Gypsum (Pre-test)

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PHOTOGRAPHS

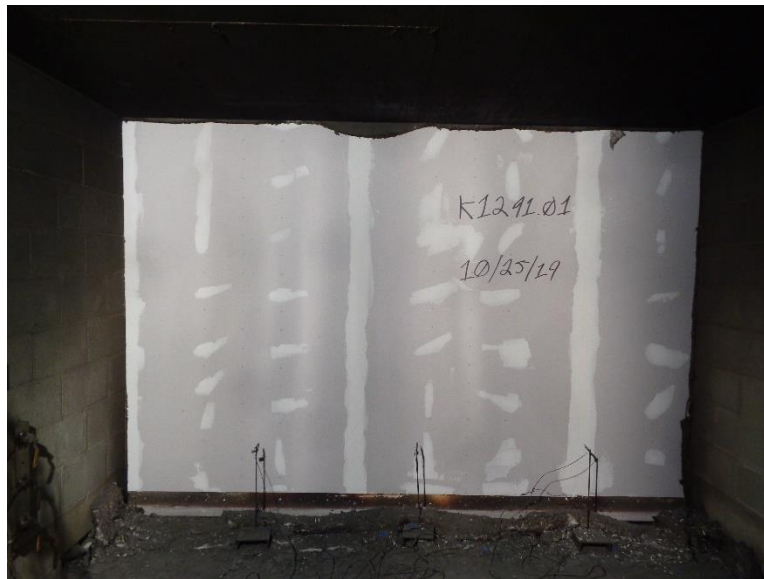


Photo No. 9
Second Story Interior Gypsum (Pre-test)

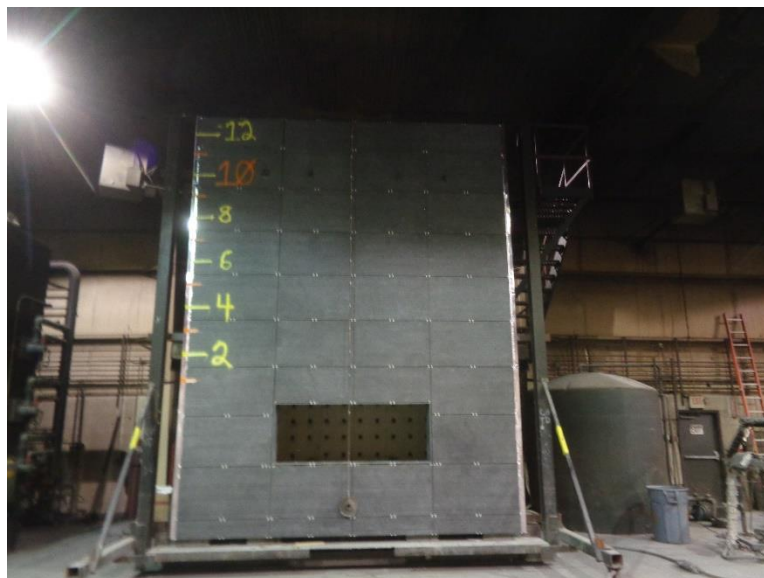


Photo No. 10
Completed Assembly (Pre-test)

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PHOTOGRAPHS



Photo No. 11
Ignition of Room Burner



Photo No. 12
Ignition of Window Burner

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PHOTOGRAPHS



Photo No. 13
Burners Extinguished



Photo No. 14
Test Concluded

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PHOTOGRAPHS



Photo No. 15
Complete Assembly (Post-test)



Photo No. 16
First Story Interior Gypsum (Post-test)

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PHOTOGRAPHS



Photo No. 17
Second Story Interior Gypsum (Post-test)



Photo No. 18
Exterior Cladding Removed

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PHOTOGRAPHS

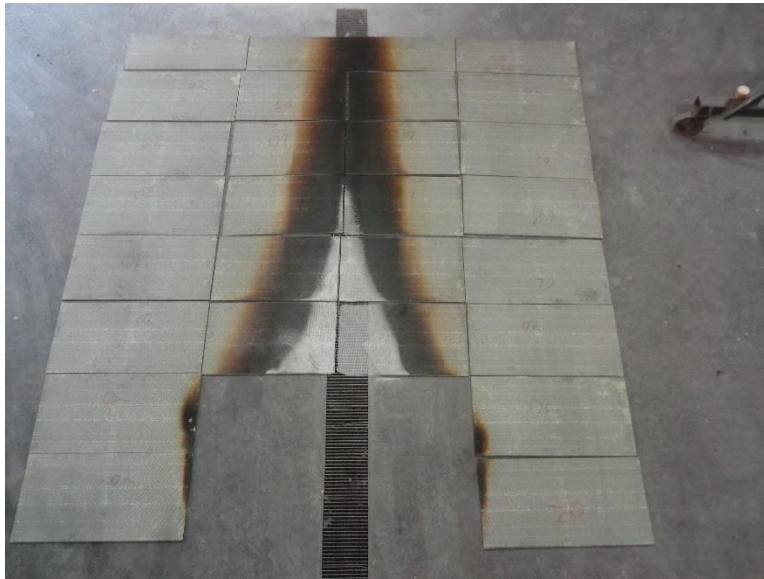


Photo No. 19
Exterior Cladding Unexposed Surface



Photo No. 20
Exterior Insulation Removed

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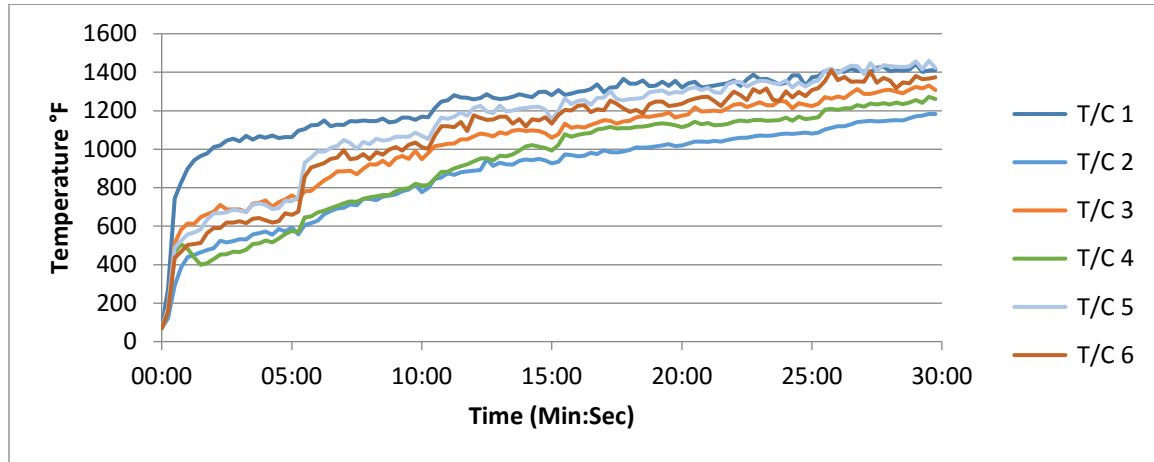
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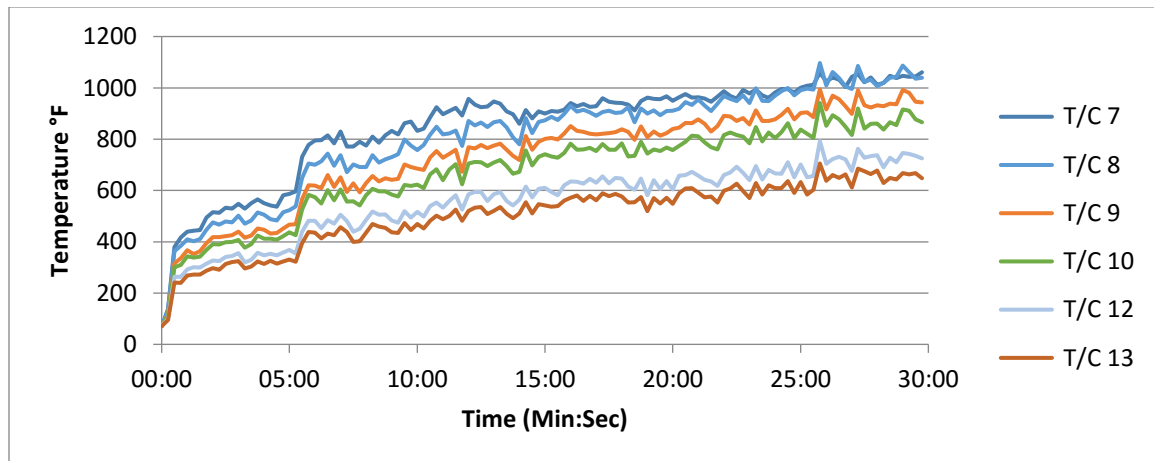
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SECTION 12

GRAPHS



Graph No. 1
Assembly Centerline (Assembly Exterior)



Graph No. 2
Assembly Centerline (Assembly Exterior)

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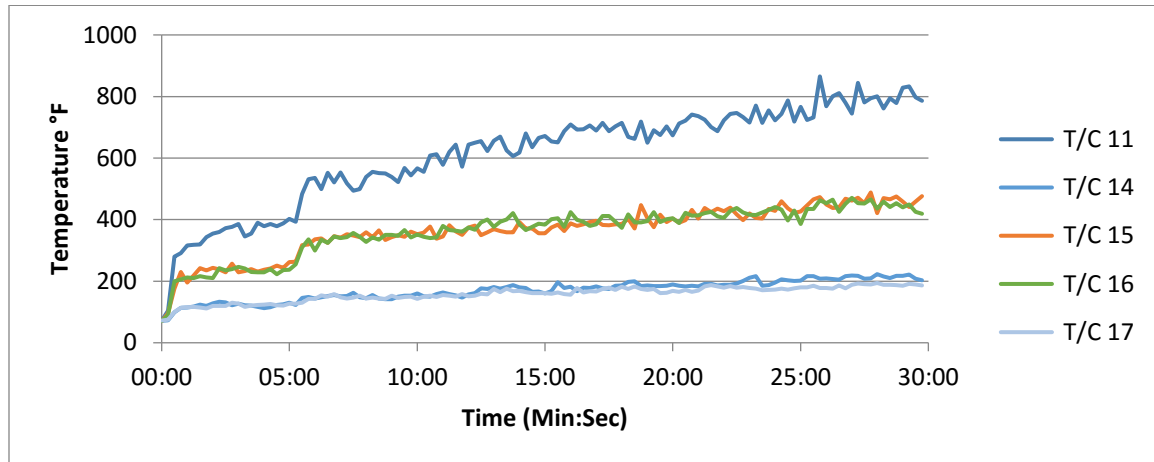
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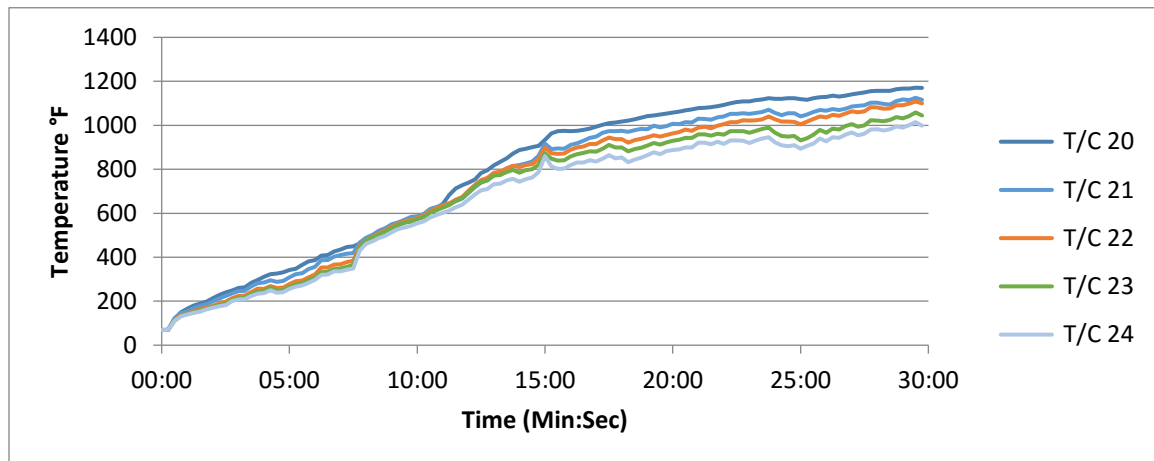
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GRAPHS



Graph No. 3
10 ft. above the Window Opening Header (Assembly Exterior)



Graph No. 4
Assembly Centerline (Air Cavity Space)

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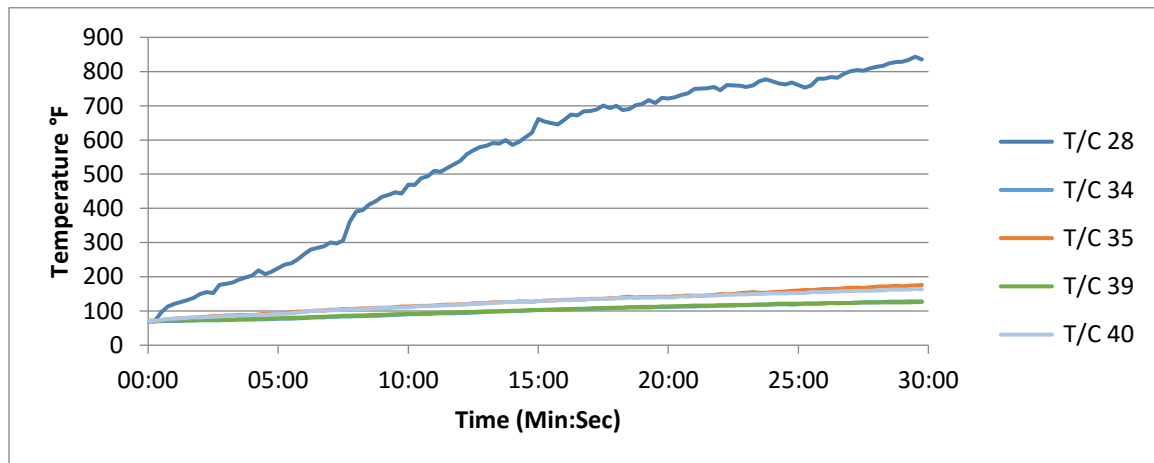
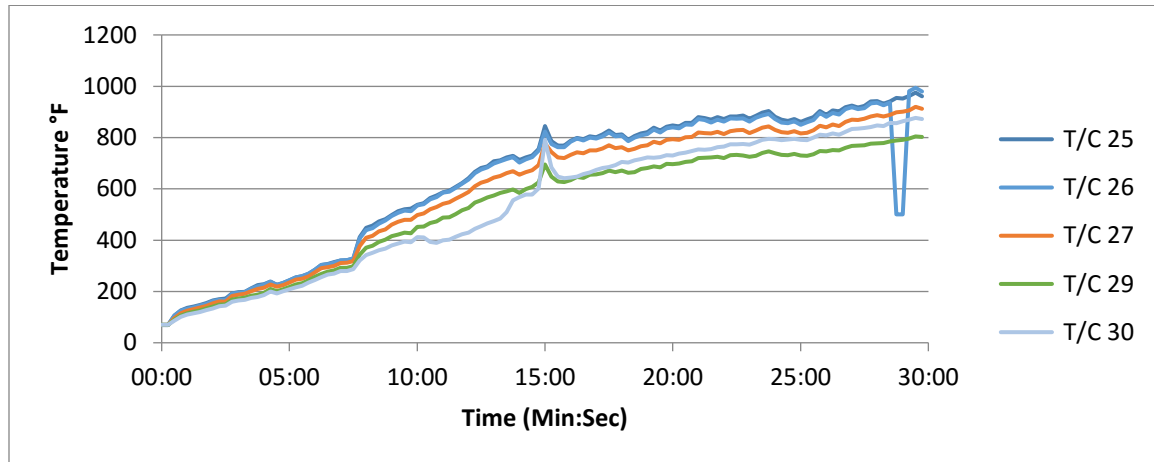
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GRAPHS



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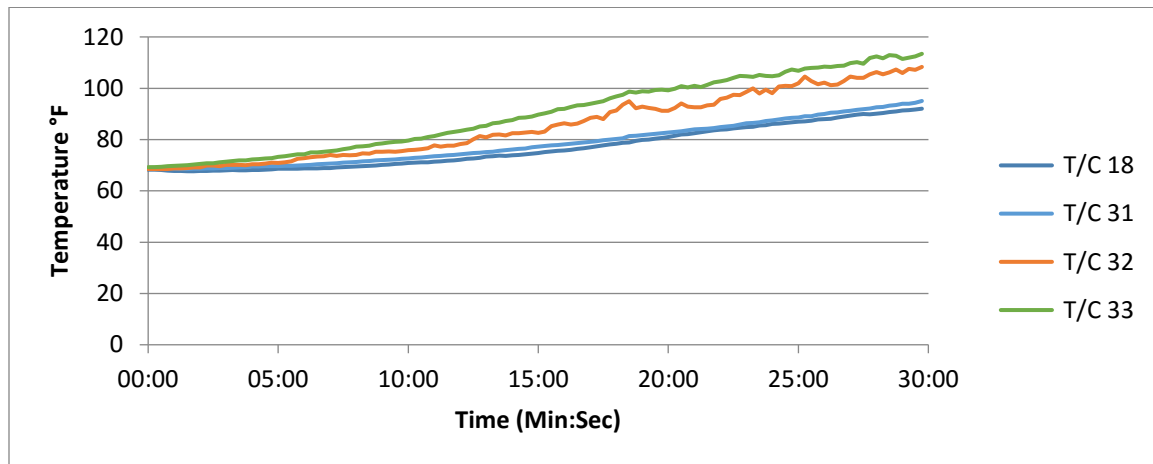
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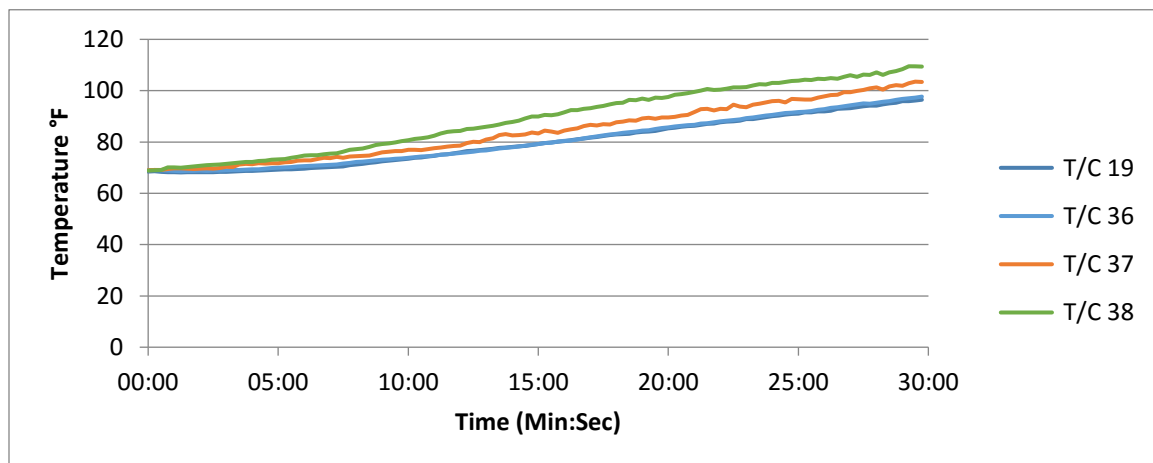
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GRAPHS



Graph No. 7
Left of Assembly Centerline (Air Cavity Space)



Graph No. 8
Right of Assembly Centerline (Air Cavity Space)

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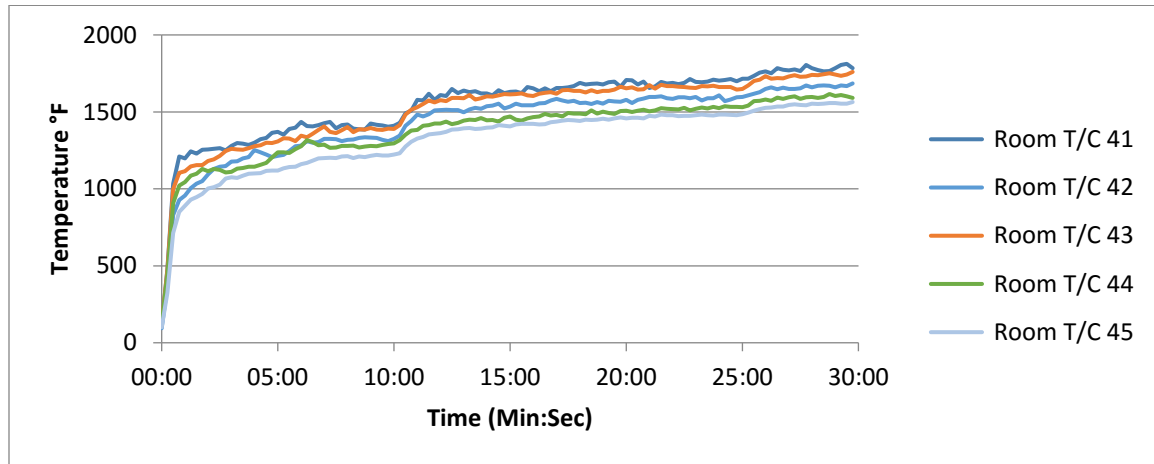
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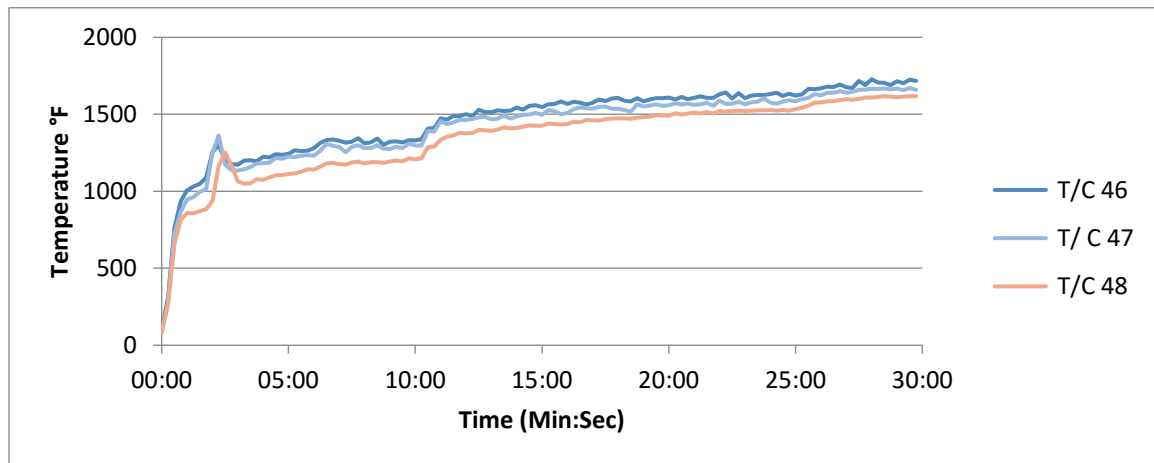
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GRAPHS



Graph No. 9
First-story Test Room Ceiling



Graph No. 10
First-story Interior Wall Surface

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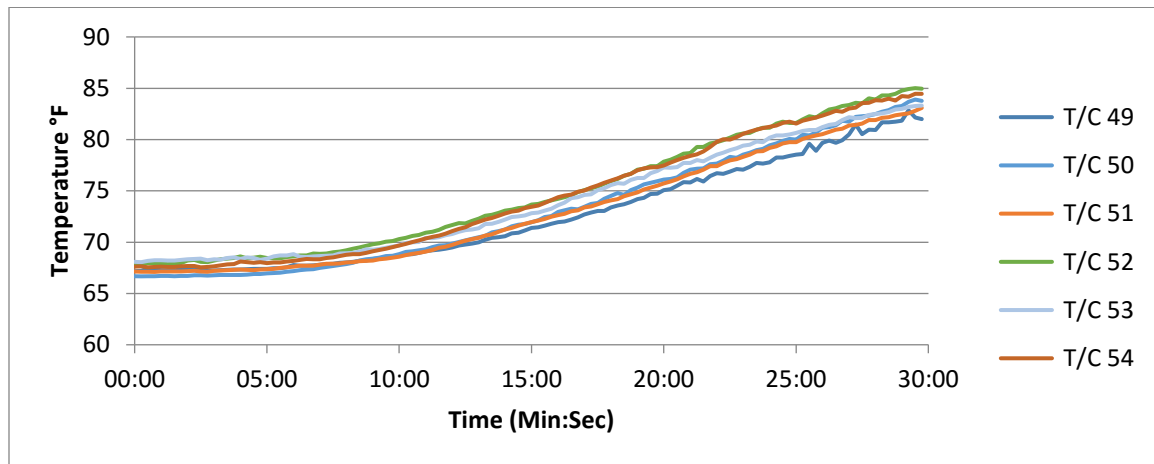
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GRAPHS



Graph No. 11
Second-story Interior Wall Surface

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SECTION 13 NUMERICAL DATA

TIME (Min:Sec)	ROOM GAS FLOW	WINDOW GAS FLOW	T/C 1	T/C 2	T/C 3	T/C 4	T/C 5	T/C 6	T/C 7	T/C 8	T/C 9
00:00	0.1	0.0	69	69	69	69	69	69	70	71	71
00:15	16.0	0.0	273	122	171	159	176	155	137	134	117
00:30	35.7	0.0	745	293	513	464	489	437	380	363	316
00:45	36.3	0.0	827	386	581	506	524	468	417	384	335
01:00	36.4	0.0	898	439	614	482	557	502	439	409	367
01:15	36.5	0.0	943	451	612	438	567	507	443	401	352
01:30	36.5	0.0	965	464	647	399	584	513	446	410	363
01:45	36.5	0.0	979	476	662	408	633	564	494	447	394
02:00	36.5	0.0	1011	485	675	429	667	591	515	475	417
02:15	36.5	0.0	1019	524	710	452	666	591	512	467	419
02:30	36.5	0.0	1045	516	687	453	672	619	532	479	422
02:45	36.5	0.0	1054	522	688	467	687	619	529	476	425
03:00	36.4	0.0	1042	532	687	466	681	625	548	502	440
03:15	36.4	0.0	1069	530	673	477	675	616	530	471	416
03:30	36.5	0.0	1050	558	716	508	711	638	550	484	425
03:45	36.5	0.0	1067	564	722	510	718	643	565	515	452
04:00	36.5	0.0	1059	573	733	525	710	630	550	506	446
04:15	36.5	0.0	1070	556	700	515	689	619	541	488	432
04:30	36.4	0.0	1058	586	726	535	694	625	537	484	435
04:45	36.5	0.0	1063	572	739	558	732	666	582	516	452
05:00	36.5	0.0	1063	593	760	576	730	658	586	523	467
05:15	36.5	0.2	1095	558	739	569	751	675	597	537	468
05:30	36.4	1.9	1104	605	782	645	930	857	731	649	567
05:45	36.5	4.7	1124	616	783	650	956	905	777	706	620
06:00	36.5	4.2	1126	628	812	672	990	917	795	699	619
06:15	36.5	4.2	1149	662	838	680	986	928	796	714	609
06:30	36.4	4.3	1120	678	856	693	1006	949	815	743	660
06:45	36.4	4.4	1128	692	885	705	1018	956	784	696	614
07:00	36.5	4.4	1126	695	886	718	1048	995	829	738	651
07:15	36.5	4.5	1146	713	888	729	1034	948	771	672	594
07:30	36.5	4.4	1145	708	870	728	1002	952	771	701	627
07:45	36.4	4.3	1149	741	898	742	1038	975	790	691	593
08:00	36.4	4.3	1146	742	922	750	1026	949	774	691	629
08:15	36.4	4.3	1146	735	919	755	1055	984	810	738	656
08:30	36.5	4.3	1159	753	939	762	1045	971	786	709	635
08:45	36.5	4.3	1139	758	916	763	1050	997	814	721	648
09:00	36.5	4.4	1144	765	953	783	1065	1012	832	730	641
09:15	36.5	4.3	1164	782	965	793	1065	994	819	741	645
09:30	36.5	4.4	1164	789	949	797	1065	1024	862	798	701
09:45	36.5	4.3	1152	817	991	820	1086	1035	868	775	691
10:00	36.5	4.3	1169	777	949	812	1070	1012	832	758	685
10:15	37.2	4.4	1166	798	980	813	1052	1001	841	777	680

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10:30	42.5	5.2	1214	845	1016	848	1116	1071	885	817	729
10:45	45.1	5.7	1248	853	1021	881	1164	1119	925	849	754
11:00	44.9	5.7	1255	874	1028	884	1158	1119	897	818	728
11:15	44.9	5.8	1281	867	1030	899	1169	1115	909	823	742
11:30	44.9	5.7	1270	881	1051	912	1192	1141	922	833	758
11:45	44.9	5.7	1268	885	1052	921	1174	1095	892	774	673
12:00	44.9	5.7	1260	888	1067	936	1214	1176	957	872	768
12:15	44.9	5.7	1265	891	1081	952	1226	1163	935	853	763
12:30	45.0	5.7	1286	948	1076	952	1196	1153	925	865	777
12:45	44.9	5.7	1267	914	1067	941	1187	1155	927	847	765
13:00	44.9	5.7	1261	930	1087	966	1227	1169	946	865	775
13:15	44.9	5.7	1264	921	1079	964	1195	1170	938	871	783
13:30	44.9	5.7	1272	920	1096	973	1200	1133	908	846	759
13:45	44.9	5.7	1286	940	1101	993	1211	1156	897	807	735
14:00	44.9	5.7	1277	946	1094	1015	1215	1119	860	779	719
14:15	44.9	5.7	1270	944	1097	1021	1220	1155	914	883	812
14:30	44.9	5.7	1298	950	1095	1013	1220	1149	881	824	758
14:45	44.9	5.7	1299	941	1084	1006	1205	1167	908	867	789
15:00	44.9	5.7	1281	926	1059	994	1152	1133	899	873	801
15:15	44.9	5.7	1307	935	1077	1024	1199	1178	910	887	805
15:30	44.8	7.6	1282	972	1134	1078	1264	1205	907	875	799
15:45	44.7	8.4	1289	970	1111	1064	1235	1201	914	899	822
16:00	44.8	8.2	1299	962	1119	1075	1251	1226	940	929	851
16:15	44.8	8.2	1303	967	1113	1082	1256	1230	929	907	833
16:30	44.8	8.1	1313	982	1126	1084	1230	1193	938	915	828
16:45	44.8	8.2	1337	974	1138	1102	1266	1208	926	905	821
17:00	44.8	8.2	1296	995	1151	1108	1269	1202	928	891	818
17:15	44.7	8.3	1320	984	1148	1116	1302	1252	960	905	821
17:30	44.7	8.3	1322	984	1133	1109	1261	1236	945	911	824
17:45	44.8	8.2	1365	988	1144	1109	1254	1212	941	903	827
18:00	44.7	8.2	1341	997	1148	1110	1261	1194	940	904	838
18:15	44.7	8.3	1341	1009	1165	1115	1262	1205	935	924	829
18:30	44.8	8.2	1357	1007	1171	1117	1268	1186	912	866	797
18:45	44.8	8.2	1327	1010	1167	1123	1295	1235	949	920	849
19:00	44.8	8.2	1331	1015	1175	1131	1301	1248	962	899	808
19:15	44.8	8.2	1351	1020	1180	1134	1305	1248	957	912	830
19:30	44.8	8.2	1330	1026	1190	1131	1288	1224	956	893	813
19:45	44.8	8.3	1355	1016	1164	1125	1298	1229	966	909	824
20:00	44.8	8.2	1321	1020	1175	1115	1294	1236	950	911	839
20:15	44.8	8.6	1343	1029	1180	1125	1314	1252	964	918	844
20:30	44.7	10.5	1350	1040	1217	1143	1323	1263	976	945	864
20:45	44.7	11.2	1321	1039	1196	1130	1308	1270	961	933	863
21:00	44.7	11.2	1326	1038	1198	1135	1319	1273	964	955	877
21:15	44.7	11.2	1331	1042	1201	1124	1296	1250	959	930	860
21:30	44.8	11.2	1337	1040	1196	1127	1293	1225	946	909	830

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21:45	44.7	11.2	1343	1048	1212	1131	1337	1263	966	938	851
22:00	44.7	11.2	1357	1055	1231	1142	1349	1299	987	968	891
22:15	44.8	11.2	1330	1060	1236	1150	1349	1281	969	958	888
22:30	44.8	11.2	1362	1060	1219	1144	1325	1256	959	949	871
22:45	44.8	11.2	1388	1067	1230	1152	1344	1313	992	971	883
23:00	44.8	11.2	1363	1070	1244	1153	1355	1295	978	941	857
23:15	44.8	11.2	1366	1069	1230	1147	1353	1316	993	998	912
23:30	44.8	11.2	1352	1071	1227	1149	1343	1257	971	949	871
23:45	44.8	11.2	1338	1077	1251	1151	1339	1251	960	948	871
24:00	44.8	11.2	1345	1081	1248	1164	1357	1300	981	970	878
24:15	44.7	11.2	1384	1080	1213	1148	1321	1268	996	987	894
24:30	44.8	11.2	1384	1083	1240	1169	1347	1297	994	1000	919
24:45	44.7	11.2	1329	1085	1230	1156	1326	1275	981	970	877
25:00	44.8	11.2	1374	1081	1225	1161	1348	1308	1000	991	902
25:15	45.1	12.0	1378	1087	1235	1166	1357	1318	1008	997	905
25:30	47.8	15.0	1408	1103	1270	1206	1407	1354	1011	993	886
25:45	48.7	15.9	1399	1111	1263	1210	1419	1411	1059	1097	994
26:00	48.8	16.0	1406	1120	1273	1205	1396	1359	1024	1009	916
26:15	48.6	16.0	1402	1120	1266	1212	1417	1375	1041	1062	969
26:30	48.7	15.9	1418	1129	1290	1212	1434	1351	1032	1038	955
26:45	48.5	16.0	1408	1142	1312	1230	1431	1353	1004	1005	928
27:00	48.6	15.9	1403	1145	1287	1221	1390	1350	1043	996	898
27:15	48.6	15.9	1402	1148	1287	1238	1446	1403	1054	1085	991
27:30	48.6	15.9	1425	1145	1295	1233	1409	1346	1022	1024	932
27:45	48.6	15.9	1429	1146	1306	1239	1437	1371	1041	1032	923
28:00	48.6	15.9	1405	1149	1308	1233	1433	1358	1012	1007	933
28:15	48.6	15.9	1412	1152	1300	1242	1429	1318	1019	1019	928
28:30	48.6	15.9	1410	1149	1291	1234	1428	1347	1047	1040	938
28:45	48.6	15.9	1414	1161	1309	1243	1430	1343	1038	1043	935
29:00	48.6	15.9	1444	1171	1325	1255	1457	1381	1047	1087	992
29:15	48.6	15.9	1402	1175	1316	1241	1415	1364	1044	1061	981
29:30	48.6	15.9	1408	1184	1331	1272	1460	1367	1044	1036	945
29:45	48.7	15.9	1413	1183	1307	1261	1422	1374	1061	1039	944
30:00	48.7	15.9	1386	1198	1336	1268	1447	1383	1055	1080	981

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00:00	72	72	72	71	71	70	70	72	68	68
00:15	113	104	100	96	73	96	90	76	68	69
00:30	301	280	264	241	99	176	200	100	68	68
00:45	309	291	263	240	114	230	206	114	68	68
01:00	343	316	292	268	114	195	213	115	68	68
01:15	338	318	300	272	118	218	210	117	68	68
01:30	342	320	299	272	124	242	217	115	68	68
01:45	369	343	315	287	120	235	213	111	68	68
02:00	391	355	327	297	128	243	210	120	68	68
02:15	390	359	324	291	134	238	242	120	68	68
02:30	399	373	341	314	131	229	235	120	68	68
02:45	399	376	345	321	122	257	239	130	68	68
03:00	407	385	356	325	127	229	247	127	68	68
03:15	377	346	319	295	121	233	241	117	68	68
03:30	391	354	330	303	121	239	230	120	68	69
03:45	424	390	357	324	117	231	229	123	68	69
04:00	411	378	347	314	112	237	228	124	68	69
04:15	411	386	353	325	116	241	240	126	68	69
04:30	408	378	347	314	123	251	223	122	68	69
04:45	422	388	358	323	125	243	236	121	68	69
05:00	436	403	368	330	131	262	237	127	69	69
05:15	425	393	354	322	123	263	255	127	69	69
05:30	525	483	439	395	145	317	310	130	69	69
05:45	583	532	481	438	149	320	336	142	69	69
06:00	573	535	482	436	144	335	300	143	69	70
06:15	549	499	454	414	148	339	334	154	69	70
06:30	601	552	484	432	152	325	325	150	69	70
06:45	562	521	471	426	156	346	346	158	69	70
07:00	604	553	506	457	151	341	340	148	69	70
07:15	556	518	480	438	152	352	344	143	69	70
07:30	558	494	440	399	163	349	357	147	69	71
07:45	541	500	450	402	148	343	344	153	69	71
08:00	581	539	486	436	145	359	328	143	70	71
08:15	606	556	518	470	155	343	342	147	70	72
08:30	597	551	505	460	143	365	335	144	70	72
08:45	596	550	506	454	142	333	350	142	70	72
09:00	584	539	483	437	142	343	350	153	70	72
09:15	576	522	474	434	150	350	347	145	70	73
09:30	622	567	519	473	153	344	367	149	71	73
09:45	617	544	494	445	153	361	342	150	71	73
10:00	623	566	517	469	160	353	352	143	71	73
10:15	608	555	498	452	151	358	344	150	71	74
10:30	662	609	539	481	150	377	340	153	71	74
10:45	682	613	553	501	158	338	342	149	71	74
11:00	640	578	533	487	164	346	379	155	71	75
11:15	681	620	559	500	158	382	367	153	72	75

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11:30	702	644	582	525	154	362	364	150	72	75
11:45	624	572	525	482	147	351	361	158	72	76
12:00	706	644	585	520	157	374	374	151	72	76
12:15	712	650	594	533	161	380	367	153	73	76
12:30	709	655	594	535	177	349	391	160	73	77
12:45	695	623	559	508	175	359	401	158	73	77
13:00	709	656	586	520	181	369	376	175	73	77
13:15	719	670	594	536	176	362	393	165	73	77
13:30	695	625	560	509	181	359	400	176	74	78
13:45	665	606	542	491	188	359	421	168	74	78
14:00	673	618	564	510	180	392	385	168	74	78
14:15	756	680	615	554	178	372	366	165	74	78
14:30	697	635	573	510	165	371	376	162	74	78
14:45	731	666	606	547	167	356	387	161	74	79
15:00	741	672	610	541	161	356	384	161	75	79
15:15	732	654	594	537	168	374	402	160	75	80
15:30	727	651	582	539	197	384	404	164	75	80
15:45	746	688	620	560	178	363	377	158	76	80
16:00	782	709	636	572	182	388	425	157	76	80
16:15	759	693	634	580	168	380	400	178	76	81
16:30	760	694	626	560	179	385	394	163	76	81
16:45	766	706	646	579	178	392	379	168	77	81
17:00	754	689	631	562	183	397	385	166	77	82
17:15	781	714	655	589	177	382	412	175	77	82
17:30	759	687	628	578	175	382	412	179	78	82
17:45	759	703	649	587	185	385	393	172	78	83
18:00	784	714	646	577	187	386	374	182	78	83
18:15	733	668	615	552	198	403	417	175	79	83
18:30	735	662	603	554	200	371	391	183	79	83
18:45	790	718	647	574	184	447	391	175	79	84
19:00	743	649	581	520	186	405	396	172	80	84
19:15	760	691	640	570	185	376	424	174	80	84
19:30	754	675	605	549	184	416	392	162	80	84
19:45	767	703	636	572	185	392	402	163	81	85
20:00	758	674	604	548	189	404	404	168	81	85
20:15	774	713	658	589	185	390	389	166	81	86
20:30	789	722	660	608	183	399	422	172	82	86
20:45	814	742	673	608	185	431	413	165	82	86
21:00	811	737	658	591	183	404	414	170	83	86
21:15	788	725	641	573	191	438	421	184	83	87
21:30	769	701	635	577	192	424	426	187	83	87
21:45	760	687	618	553	186	436	411	183	84	87
22:00	817	723	660	599	188	428	406	179	84	88
22:15	826	743	669	608	188	438	428	184	84	88
22:30	816	747	693	626	192	417	438	179	84	88
22:45	810	733	669	597	201	398	424	181	85	88

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23:00	784	715	641	570	211	420	416	178	85	89
23:15	847	771	696	629	217	405	415	176	85	89
23:30	791	714	642	584	185	403	424	170	85	89
23:45	826	755	680	620	187	434	432	171	86	90
24:00	804	722	667	609	196	428	441	172	86	90
24:15	827	744	666	609	206	460	433	176	86	90
24:30	863	788	710	636	202	437	397	173	86	91
24:45	804	719	651	590	200	422	430	177	87	91
25:00	837	767	701	633	201	426	386	180	87	91
25:15	821	724	651	585	216	446	435	180	87	92
25:30	805	732	657	602	216	466	435	185	87	92
25:45	941	865	793	705	208	473	463	178	88	92
26:00	852	768	704	638	210	449	453	178	88	92
26:15	893	800	723	660	207	438	465	176	88	92
26:30	877	811	731	649	205	440	426	186	89	93
26:45	849	780	722	662	216	468	451	177	89	93
27:00	817	745	677	611	218	462	471	189	89	93
27:15	919	845	763	685	218	471	454	192	90	94
27:30	841	781	728	675	208	453	452	191	90	94
27:45	860	795	733	664	209	488	466	189	90	94
28:00	861	801	738	677	223	421	435	194	90	94
28:15	838	762	690	629	216	470	458	188	90	95
28:30	866	795	728	649	210	466	441	188	91	95
28:45	855	779	710	643	218	475	454	187	91	95
29:00	916	829	746	668	218	459	440	186	91	96
29:15	910	833	743	663	222	441	449	191	91	96
29:30	878	798	736	668	208	459	425	189	92	96
29:45	865	786	725	647	202	476	419	186	92	96
30:00	904	833	766	707	210	466	445	189	92	97

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00:00	69	69	70	69	69	69	69	70	70	71
00:15	70	70	70	69	69	69	70	70	70	71
00:30	119	122	115	110	111	107	106	97	96	90
00:45	149	147	137	132	131	127	125	115	113	106
01:00	166	154	145	142	140	136	132	125	120	115
01:15	180	168	156	152	147	142	137	131	127	121
01:30	189	179	164	158	153	147	144	138	132	127
01:45	198	187	171	165	163	155	152	144	138	134
02:00	214	199	179	174	170	164	162	154	149	142
02:15	228	213	190	184	177	170	167	161	155	149
02:30	240	223	197	189	182	172	167	160	153	150
02:45	249	235	213	207	200	192	191	182	176	168
03:00	260	246	223	214	207	197	195	187	179	173
03:15	263	248	225	215	209	198	197	191	183	176
03:30	284	268	242	233	224	212	211	200	192	183
03:45	296	282	257	244	234	225	220	210	198	188
04:00	311	285	256	247	238	228	226	215	204	195
04:15	323	295	270	261	251	238	239	227	218	210
04:30	326	287	261	249	239	226	224	218	207	201
04:45	331	293	262	249	242	234	233	225	215	209
05:00	342	309	278	265	256	243	243	235	226	218
05:15	347	322	291	275	266	255	255	246	236	227
05:30	365	327	294	282	272	260	260	250	240	232
05:45	381	346	309	295	283	269	269	259	250	243
06:00	387	356	321	307	297	284	285	274	266	257
06:15	408	387	353	332	320	304	304	291	279	268
06:30	410	387	354	335	321	307	306	295	284	277
06:45	426	403	366	346	336	314	312	300	289	282
07:00	435	410	369	350	337	320	321	311	300	292
07:15	447	416	378	356	344	323	323	311	297	293
07:30	449	420	384	365	350	328	328	319	306	299
07:45	462	466	451	442	431	412	407	376	361	343
08:00	470	489	479	475	461	448	439	410	391	371
08:15	480	502	493	490	473	457	447	417	395	378
08:30	505	521	509	504	488	473	464	434	412	393
08:45	519	532	523	517	498	481	477	442	421	402
09:00	538	550	540	533	513	498	494	460	434	416
09:15	545	559	553	547	528	513	506	472	440	421
09:30	557	570	563	557	536	520	515	480	447	430
09:45	571	583	570	562	543	522	513	479	443	427
10:00	573	586	579	575	555	538	535	498	470	452
10:15	586	597	589	582	562	544	540	504	469	453
10:30	615	620	609	602	580	564	559	520	488	467
10:45	624	628	622	614	592	574	568	529	494	474
11:00	643	638	636	626	602	587	585	542	510	488
11:15	683	644	644	637	613	593	589	548	507	489

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11:30	712	654	662	657	628	608	604	561	518	502
11:45	727	666	674	670	639	622	620	575	529	516
12:00	739	692	702	696	663	642	636	588	539	525
12:15	754	719	730	722	685	666	662	610	559	546
12:30	783	739	751	742	704	681	675	624	570	556
12:45	795	750	761	749	711	687	684	631	579	566
13:00	818	774	785	771	732	708	698	643	583	575
13:15	834	782	788	773	734	711	707	650	591	585
13:30	850	798	804	787	749	723	716	662	589	590
13:45	872	814	816	798	756	729	724	669	600	598
14:00	887	819	810	784	744	712	702	655	585	584
14:15	894	827	819	795	755	722	716	665	594	599
14:30	900	834	824	800	762	730	724	672	607	608
14:45	906	862	846	821	787	755	749	692	621	625
15:00	935	917	898	873	859	845	823	777	661	695
15:15	963	891	873	849	813	786	774	743	654	647
15:30	974	894	871	839	802	769	762	723	649	628
15:45	975	894	872	841	803	769	762	720	646	626
16:00	973	911	889	859	820	787	784	733	659	634
16:15	975	918	899	869	831	798	796	742	675	647
16:30	979	930	904	874	831	794	789	739	672	643
16:45	985	942	915	882	842	805	800	751	684	656
17:00	994	949	915	881	836	801	796	750	685	657
17:15	1003	967	931	894	848	812	805	757	689	661
17:30	1009	974	944	911	865	827	820	769	700	671
17:45	1013	974	937	899	850	810	805	759	693	665
18:00	1017	974	937	899	854	812	807	762	700	672
18:15	1021	970	922	882	832	791	786	750	687	663
18:30	1027	978	933	892	844	806	800	756	690	665
18:45	1034	984	938	898	853	816	809	766	702	678
19:00	1042	983	946	908	864	821	813	770	705	681
19:15	1045	998	954	920	877	839	831	784	716	688
19:30	1050	991	949	912	869	827	820	777	708	684
19:45	1053	997	956	922	883	843	836	790	723	697
20:00	1058	1007	963	930	887	847	839	793	721	696
20:15	1062	1005	968	934	891	844	836	791	725	699
20:30	1069	1014	980	942	899	857	851	801	731	706
20:45	1072	1013	975	942	899	858	850	802	736	708
21:00	1078	1030	990	959	920	880	872	820	750	720
21:15	1080	1029	993	958	921	876	868	817	751	722
21:30	1083	1025	987	953	914	869	859	816	751	723
21:45	1086	1036	998	962	925	879	869	823	755	725
22:00	1092	1040	1005	958	916	872	862	814	746	720
22:15	1100	1053	1014	974	932	882	875	824	761	731
22:30	1106	1052	1014	974	931	883	874	829	760	732
22:45	1109	1056	1022	974	930	886	875	829	759	730

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23:00	1109	1052	1021	967	919	874	862	817	755	724
23:15	1114	1056	1023	975	931	885	877	827	760	729
23:30	1118	1061	1027	984	940	897	886	838	772	740
23:45	1123	1071	1041	989	946	904	892	843	778	746
24:00	1121	1056	1027	966	922	881	872	830	771	739
24:15	1120	1047	1017	952	909	870	858	821	765	733
24:30	1124	1054	1017	948	905	865	856	818	762	731
24:45	1123	1055	1015	952	910	872	864	825	768	736
25:00	1118	1040	1005	932	893	861	850	816	760	730
25:15	1117	1049	1017	942	906	871	860	818	753	728
25:30	1123	1061	1029	958	916	879	868	828	760	734
25:45	1127	1070	1041	979	941	903	896	846	779	748
26:00	1129	1067	1036	967	926	889	881	839	779	746
26:15	1134	1073	1047	985	945	906	896	852	784	751
26:30	1131	1069	1043	981	943	902	890	845	782	750
26:45	1135	1075	1053	996	958	918	911	861	793	759
27:00	1141	1086	1064	1006	967	924	918	869	800	767
27:15	1145	1088	1060	994	955	917	911	868	804	769
27:30	1149	1092	1064	1000	962	923	915	873	803	769
27:45	1155	1102	1082	1022	981	940	933	882	809	776
28:00	1157	1104	1081	1021	981	942	935	887	814	778
28:15	1157	1097	1075	1019	976	932	926	882	817	779
28:30	1157	1094	1077	1024	982	941	936	889	824	785
28:45	1164	1110	1092	1038	995	954	500	899	828	788
29:00	1167	1117	1092	1031	989	952	500	901	829	791
29:15	1168	1115	1098	1042	1001	962	981	906	834	797
29:30	1171	1125	1108	1059	1015	975	994	920	843	804
29:45	1170	1116	1100	1045	998	961	980	912	836	803
30:00	1171	1116	1100	1045	1005	968	988	915	836	803

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00:00	70	69	69	69	70	69	69	69	69	71
00:15	70	69	69	69	70	69	69	69	69	72
00:30	87	69	68	69	70	72	69	69	69	72
00:45	101	69	69	70	71	76	69	69	70	72
01:00	109	69	69	70	71	77	69	70	70	73
01:15	115	69	69	70	71	79	69	70	70	73
01:30	120	68	69	70	72	79	69	70	70	73
01:45	127	69	69	70	72	81	69	69	70	74
02:00	134	69	69	71	72	83	69	70	71	74
02:15	142	69	70	71	73	84	69	70	71	74
02:30	145	69	70	71	73	85	69	70	71	74
02:45	160	69	70	71	73	85	69	70	71	75
03:00	165	69	70	71	74	87	69	70	71	75
03:15	167	69	70	72	74	87	69	70	72	76
03:30	175	69	70	72	74	88	69	71	72	76
03:45	179	69	70	72	75	88	69	71	72	76
04:00	186	69	70	72	75	88	69	71	72	77
04:15	200	70	70	72	75	90	69	72	73	77
04:30	193	70	71	73	76	91	70	72	73	78
04:45	201	70	71	73	77	92	70	72	73	78
05:00	209	70	71	73	77	92	70	72	73	79
05:15	216	70	71	73	77	93	70	72	73	79
05:30	222	70	72	74	78	96	70	72	74	80
05:45	235	70	73	74	79	98	70	73	74	81
06:00	245	70	73	74	80	98	71	73	75	81
06:15	255	70	73	75	81	100	71	73	75	82
06:30	267	70	73	75	81	101	71	73	75	83
06:45	269	71	73	75	82	101	71	74	75	84
07:00	279	71	74	76	83	103	71	74	75	84
07:15	280	71	74	76	84	104	71	74	76	85
07:30	287	71	74	76	84	105	72	74	76	86
07:45	321	71	74	77	84	106	72	74	77	86
08:00	342	71	74	77	85	106	72	74	77	87
08:15	351	72	75	77	85	108	72	75	77	87
08:30	360	72	74	78	86	108	73	75	78	88
08:45	367	72	75	78	86	109	73	75	79	89
09:00	379	72	75	78	87	109	73	76	79	89
09:15	387	72	75	79	88	110	73	76	80	90
09:30	394	72	75	79	89	111	73	76	80	91
09:45	392	72	75	79	90	113	74	76	80	91
10:00	412	73	76	80	90	113	74	77	81	91
10:15	411	73	76	80	90	114	74	77	81	92
10:30	393	73	76	80	91	115	74	77	81	93
10:45	390	73	77	81	92	115	74	77	82	93
11:00	400	73	78	81	93	116	75	78	82	94
11:15	402	74	77	82	93	118	75	78	83	95

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11:30	413	74	78	83	94	119	75	78	84	95
11:45	423	74	78	83	94	119	76	78	84	96
12:00	430	74	78	83	94	120	76	79	84	96
12:15	445	75	79	84	95	120	76	80	85	96
12:30	454	75	80	84	96	122	76	80	85	97
12:45	465	75	81	85	97	122	77	80	86	98
13:00	475	75	81	85	97	124	77	81	86	99
13:15	484	75	82	86	98	125	77	81	86	99
13:30	509	76	82	87	99	126	77	83	87	99
13:45	556	76	82	87	99	126	78	83	87	100
14:00	568	76	82	88	100	126	78	83	88	101
14:15	577	76	83	88	100	128	78	83	88	101
14:30	578	77	83	89	101	128	79	83	89	102
14:45	602	77	83	89	102	128	79	84	90	103
15:00	791	77	83	90	102	129	79	83	90	103
15:15	684	78	83	90	103	130	80	84	91	104
15:30	647	78	85	91	103	131	80	84	90	104
15:45	641	78	86	92	104	131	80	84	91	105
16:00	644	78	86	92	104	133	80	84	92	106
16:15	647	78	86	93	105	133	81	85	92	106
16:30	657	79	86	93	106	134	81	85	92	107
16:45	664	79	87	93	105	134	81	86	93	107
17:00	674	79	88	94	107	135	82	87	93	107
17:15	682	79	89	95	107	136	82	86	94	108
17:30	685	80	88	95	108	135	83	87	94	108
17:45	692	80	91	96	108	138	83	87	95	109
18:00	705	80	91	97	109	138	83	88	95	109
18:15	703	81	94	98	109	141	84	88	95	110
18:30	712	81	95	99	110	142	84	88	96	111
18:45	716	81	92	98	110	139	84	88	96	111
19:00	722	82	93	99	110	141	84	89	97	112
19:15	721	82	92	99	111	141	85	89	96	112
19:30	724	82	92	99	111	141	85	89	97	112
19:45	731	83	91	99	112	142	85	90	97	113
20:00	730	83	91	99	112	141	86	90	98	113
20:15	737	83	92	100	113	143	86	90	98	114
20:30	741	83	94	101	114	144	86	90	99	114
20:45	748	84	93	100	113	145	87	91	99	115
21:00	754	84	93	101	114	145	87	92	100	116
21:15	753	84	93	100	114	144	87	93	100	116
21:30	755	84	93	101	114	146	87	93	101	116
21:45	762	85	94	102	115	146	88	92	100	116
22:00	765	85	96	103	116	150	88	93	100	117
22:15	774	85	96	103	116	149	88	93	101	117
22:30	774	85	97	104	116	149	89	95	101	118
22:45	775	86	97	105	117	152	89	94	101	118

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23:00	772	86	99	105	117	153	89	94	101	118
23:15	782	86	100	104	118	155	90	95	102	119
23:30	791	87	98	105	118	153	90	95	103	119
23:45	794	87	99	105	119	153	90	95	102	119
24:00	793	87	98	105	118	155	91	96	103	120
24:15	789	88	101	105	119	156	91	96	103	121
24:30	792	88	101	106	119	157	91	95	103	121
24:45	795	88	101	107	119	159	91	97	104	121
25:00	791	89	102	107	120	160	92	97	104	121
25:15	790	89	105	108	121	162	92	97	104	122
25:30	799	89	103	108	122	161	92	97	104	122
25:45	811	90	102	108	122	162	93	97	105	122
26:00	809	90	102	108	122	164	93	98	105	122
26:15	816	90	101	108	124	164	93	98	105	123
26:30	811	91	102	109	123	165	94	98	105	123
26:45	823	91	103	109	123	166	94	99	105	123
27:00	833	91	105	110	123	168	94	99	106	123
27:15	835	92	104	110	124	168	95	100	105	124
27:30	838	92	104	110	125	167	95	100	106	125
27:45	841	92	105	112	125	169	95	101	106	125
28:00	848	93	106	112	126	171	95	101	107	125
28:15	845	93	105	112	126	172	96	100	106	125
28:30	857	93	106	113	128	172	96	102	107	126
28:45	855	93	107	113	127	174	96	102	108	126
29:00	864	94	106	111	127	172	97	102	108	126
29:15	869	94	108	112	128	174	97	103	109	126
29:30	877	94	107	112	128	175	97	104	109	126
29:45	872	95	108	113	128	176	98	103	109	126
30:00	874	95	108	113	128	175	98	104	109	126

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00:00	71	114	94	123	127	101	98	85	82	67
00:15	71	478	371	472	442	325	310	275	269	67
00:30	74	1034	829	998	907	713	764	725	656	67
00:45	76	1211	927	1103	1020	850	938	868	814	67
01:00	78	1198	956	1116	1044	890	1004	945	859	67
01:15	79	1243	1005	1147	1086	929	1030	963	857	67
01:30	80	1229	1034	1154	1099	946	1047	995	871	67
01:45	81	1254	1051	1155	1129	967	1088	1014	882	67
02:00	81	1256	1095	1182	1114	1003	1255	1248	938	68
02:15	83	1260	1129	1192	1130	1010	1298	1363	1162	67
02:30	83	1265	1144	1214	1123	1027	1207	1174	1252	67
02:45	84	1251	1149	1245	1107	1066	1177	1136	1169	67
03:00	85	1279	1177	1260	1111	1076	1173	1134	1065	67
03:15	85	1297	1179	1256	1132	1071	1199	1143	1050	67
03:30	87	1293	1198	1255	1135	1086	1202	1157	1053	67
03:45	87	1286	1206	1265	1144	1098	1196	1181	1078	67
04:00	88	1299	1252	1276	1144	1100	1224	1182	1074	67
04:15	88	1323	1237	1284	1156	1103	1219	1188	1090	67
04:30	89	1331	1222	1301	1169	1116	1242	1216	1103	67
04:45	91	1365	1207	1298	1203	1118	1236	1211	1105	67
05:00	92	1370	1214	1308	1238	1119	1244	1225	1111	67
05:15	92	1351	1221	1330	1237	1134	1265	1221	1116	67
05:30	94	1390	1245	1326	1234	1143	1262	1230	1127	67
05:45	95	1398	1276	1309	1257	1144	1264	1234	1143	68
06:00	97	1435	1280	1345	1277	1160	1281	1231	1140	68
06:15	100	1409	1311	1336	1316	1168	1314	1261	1161	68
06:30	101	1407	1299	1358	1303	1183	1333	1307	1180	68
06:45	102	1413	1303	1382	1283	1198	1336	1296	1185	68
07:00	102	1427	1326	1406	1287	1200	1327	1290	1177	68
07:15	103	1436	1325	1371	1267	1202	1316	1254	1173	68
07:30	104	1394	1324	1362	1268	1200	1322	1289	1186	68
07:45	105	1414	1310	1380	1279	1210	1346	1300	1193	68
08:00	105	1419	1318	1402	1279	1213	1311	1281	1180	68
08:15	105	1392	1320	1369	1282	1200	1318	1281	1189	68
08:30	107	1388	1331	1388	1269	1211	1343	1298	1189	68
08:45	108	1385	1336	1385	1275	1207	1301	1276	1185	68
09:00	108	1425	1334	1395	1279	1215	1322	1275	1193	68
09:15	110	1415	1331	1385	1278	1220	1324	1290	1200	68
09:30	111	1412	1318	1383	1286	1217	1317	1280	1195	69
09:45	111	1405	1311	1391	1292	1217	1333	1310	1214	69
10:00	111	1409	1325	1388	1296	1222	1331	1297	1208	69
10:15	113	1428	1344	1413	1317	1231	1339	1297	1213	69
10:30	114	1490	1410	1483	1352	1274	1408	1391	1286	69
10:45	114	1508	1442	1514	1379	1307	1411	1388	1291	69
11:00	115	1578	1482	1530	1384	1327	1473	1455	1334	69
11:15	116	1573	1470	1552	1411	1337	1465	1437	1354	69

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TIME (Min:Sec)	T/C 40	T/C 41	T/C 42	T/C 43	T/C 44	T/C 45	T/C 46	T/C 47	T/C 48	T/C 49
11:30	117	1619	1485	1574	1414	1354	1488	1447	1361	69
11:45	118	1578	1510	1562	1425	1358	1489	1464	1380	69
12:00	118	1609	1513	1576	1425	1362	1500	1463	1377	69
12:15	119	1603	1513	1571	1437	1371	1489	1470	1379	70
12:30	121	1649	1512	1590	1419	1386	1530	1481	1399	70
12:45	121	1621	1512	1591	1429	1386	1515	1484	1397	70
13:00	123	1639	1497	1588	1444	1392	1512	1467	1393	70
13:15	124	1629	1516	1610	1450	1395	1525	1472	1402	70
13:30	125	1633	1526	1581	1448	1390	1522	1492	1415	70
13:45	126	1621	1521	1589	1460	1392	1523	1471	1410	70
14:00	126	1621	1538	1601	1446	1397	1545	1487	1411	71
14:15	128	1607	1541	1600	1448	1399	1529	1497	1419	71
14:30	128	1641	1553	1607	1438	1414	1556	1500	1428	71
14:45	127	1623	1523	1616	1461	1410	1559	1509	1426	71
15:00	129	1630	1535	1613	1470	1405	1546	1498	1427	71
15:15	130	1633	1554	1615	1449	1418	1565	1528	1441	71
15:30	130	1622	1544	1620	1443	1423	1566	1519	1437	72
15:45	131	1662	1542	1608	1458	1422	1583	1501	1435	72
16:00	132	1653	1543	1604	1467	1423	1567	1510	1437	72
16:15	132	1634	1555	1618	1471	1418	1581	1534	1451	72
16:30	133	1653	1558	1624	1487	1421	1576	1544	1450	72
16:45	133	1635	1574	1628	1476	1432	1562	1540	1463	72
17:00	135	1655	1585	1617	1481	1437	1575	1536	1460	73
17:15	135	1654	1574	1640	1471	1443	1596	1548	1460	73
17:30	135	1660	1566	1643	1494	1447	1585	1550	1470	73
17:45	136	1667	1572	1637	1490	1446	1602	1537	1472	73
18:00	138	1688	1558	1637	1490	1442	1607	1537	1473	73
18:15	137	1679	1560	1625	1485	1449	1589	1527	1474	74
18:30	139	1683	1551	1640	1510	1447	1584	1517	1471	74
18:45	138	1685	1565	1629	1490	1450	1605	1566	1478	74
19:00	139	1678	1552	1636	1502	1456	1585	1550	1481	74
19:15	139	1693	1573	1636	1493	1450	1597	1558	1483	74
19:30	140	1697	1569	1645	1488	1459	1605	1564	1495	75
19:45	140	1663	1566	1663	1506	1464	1604	1555	1493	75
20:00	140	1708	1578	1653	1507	1459	1608	1558	1490	75
20:15	140	1704	1559	1659	1499	1462	1597	1572	1508	75
20:30	143	1678	1578	1645	1508	1461	1613	1563	1498	76
20:45	142	1697	1587	1646	1515	1459	1599	1569	1505	76
21:00	144	1656	1597	1674	1503	1474	1606	1562	1511	76
21:15	145	1666	1597	1651	1510	1470	1616	1565	1505	76
21:30	146	1694	1601	1676	1523	1483	1607	1576	1515	76
21:45	145	1685	1588	1667	1520	1478	1606	1555	1506	76
22:00	146	1689	1584	1667	1518	1478	1629	1591	1521	77
22:15	148	1680	1596	1663	1515	1473	1641	1567	1518	77
22:30	148	1689	1596	1661	1526	1475	1602	1569	1522	77
22:45	149	1713	1589	1657	1509	1475	1639	1582	1523	77

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23:00	148	1695	1597	1656	1521	1479	1605	1564	1522	77
23:15	150	1693	1575	1668	1529	1484	1622	1577	1523	77
23:30	150	1697	1588	1665	1522	1478	1626	1583	1525	78
23:45	150	1710	1588	1671	1533	1477	1625	1605	1526	78
24:00	151	1704	1607	1662	1524	1483	1632	1577	1528	78
24:15	152	1707	1569	1661	1537	1482	1640	1569	1525	78
24:30	152	1713	1581	1662	1534	1480	1619	1583	1528	78
24:45	153	1698	1595	1645	1532	1479	1633	1591	1523	78
25:00	153	1715	1597	1649	1530	1484	1622	1583	1535	79
25:15	153	1715	1607	1672	1540	1495	1630	1598	1542	79
25:30	155	1734	1617	1701	1570	1508	1665	1607	1557	80
25:45	156	1755	1629	1710	1572	1517	1662	1631	1575	79
26:00	155	1763	1650	1733	1580	1526	1669	1624	1578	80
26:15	156	1750	1658	1716	1573	1529	1679	1641	1585	80
26:30	158	1784	1647	1720	1592	1535	1676	1640	1586	80
26:45	158	1774	1656	1719	1584	1535	1695	1652	1592	80
27:00	158	1771	1650	1731	1596	1545	1676	1640	1598	81
27:15	159	1776	1649	1738	1602	1549	1671	1647	1594	81
27:30	159	1766	1654	1729	1584	1546	1718	1659	1600	81
27:45	159	1805	1673	1731	1596	1544	1689	1661	1609	81
28:00	160	1784	1660	1740	1597	1552	1728	1666	1610	81
28:15	160	1771	1670	1738	1590	1552	1706	1665	1612	82
28:30	162	1763	1672	1745	1598	1552	1704	1667	1617	82
28:45	162	1765	1670	1751	1616	1557	1690	1664	1615	82
29:00	162	1784	1660	1743	1603	1557	1714	1666	1612	82
29:15	163	1806	1672	1733	1609	1553	1702	1657	1615	83
29:30	165	1812	1668	1743	1602	1553	1725	1671	1616	82
29:45	164	1783	1685	1760	1591	1564	1717	1658	1618	82
30:00	163	1774	1678	1744	1614	1560	1727	1678	1625	84

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TIME (Min:Sec)	T/C 50	T/C 51	T/C 52	T/C 53	T/C 54
00:00	67	67	68	68	68
00:15	67	67	68	68	68
00:30	67	67	68	68	68
00:45	67	67	68	68	68
01:00	67	67	68	68	68
01:15	67	67	68	68	68
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03:45	67	67	68	69	68
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04:15	67	67	68	69	68
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05:15	67	67	68	69	68
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05:45	67	68	69	69	68
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06:15	67	68	69	69	68
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10:15	69	69	70	70	70
10:30	69	69	71	70	70
10:45	69	69	71	70	70
11:00	69	69	71	70	70
11:15	70	69	71	70	71

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TIME (Min:Sec)	T/C 50	T/C 51	T/C 52	T/C 53	T/C 54
11:30	70	69	71	70	71
11:45	70	70	71	71	71
12:00	70	70	72	71	71
12:15	70	70	72	71	71
12:30	70	70	72	71	71
12:45	70	70	72	71	72
13:00	70	70	72	71	72
13:15	71	71	73	72	72
13:30	71	71	73	72	72
13:45	71	71	73	72	73
14:00	71	71	73	72	73
14:15	72	71	73	72	73
14:30	72	72	73	73	73
14:45	72	72	73	73	73
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15:45	73	72	74	73	74
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18:45	75	75	77	76	77
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19:30	76	75	77	77	77
19:45	76	76	77	77	77
20:00	76	76	78	77	77
20:15	76	76	78	77	78
20:30	76	76	78	77	78
20:45	77	76	79	78	78
21:00	77	77	79	78	78
21:15	77	77	79	78	79
21:30	77	77	79	78	79
21:45	78	77	80	78	79
22:00	78	77	80	79	80
22:15	78	78	80	79	80
22:30	78	78	80	79	80
22:45	78	78	80	79	80

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TIME (Min:Sec)	T/C 50	T/C 51	T/C 52	T/C 53	T/C 54
23:00	79	78	81	79	81
23:15	79	79	81	79	81
23:30	79	79	81	80	81
23:45	79	79	81	80	81
24:00	79	79	81	80	81
24:15	80	79	82	80	81
24:30	80	80	82	80	82
24:45	80	80	82	81	82
25:00	80	80	82	81	82
25:15	80	80	82	81	82
25:30	80	80	82	81	82
25:45	81	80	82	81	82
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27:00	82	81	83	82	83
27:15	82	81	84	82	83
27:30	82	82	84	82	84
27:45	82	82	84	82	84
28:00	83	82	84	82	84
28:15	83	82	84	83	84
28:30	83	82	84	83	84
28:45	83	82	84	83	84
29:00	83	82	85	83	84
29:15	84	83	85	83	84
29:30	84	83	85	83	84
29:45	84	83	85	83	84
30:00	84	83	85	84	85



Total Quality. Assured.

130 Derry Court
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SECTION 14

DRAWINGS

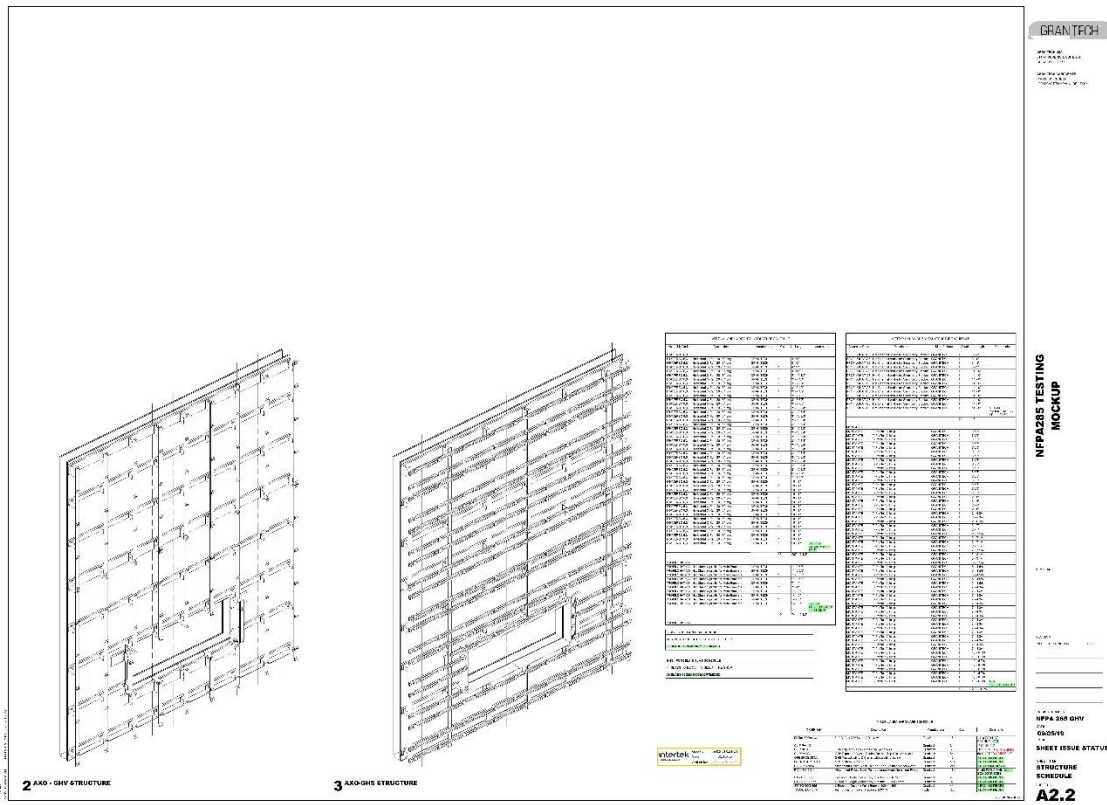
The test specimen drawings which follow have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

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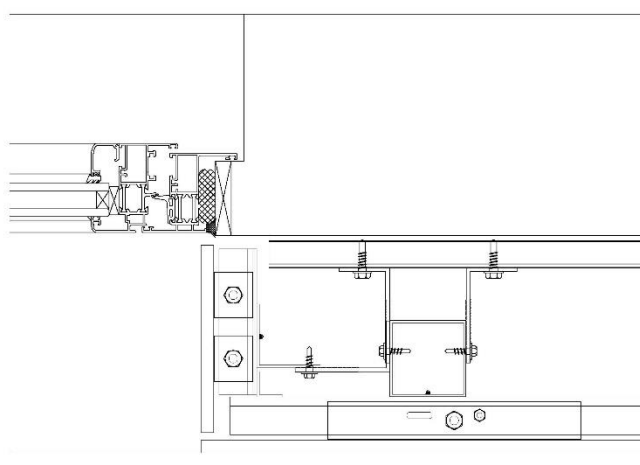


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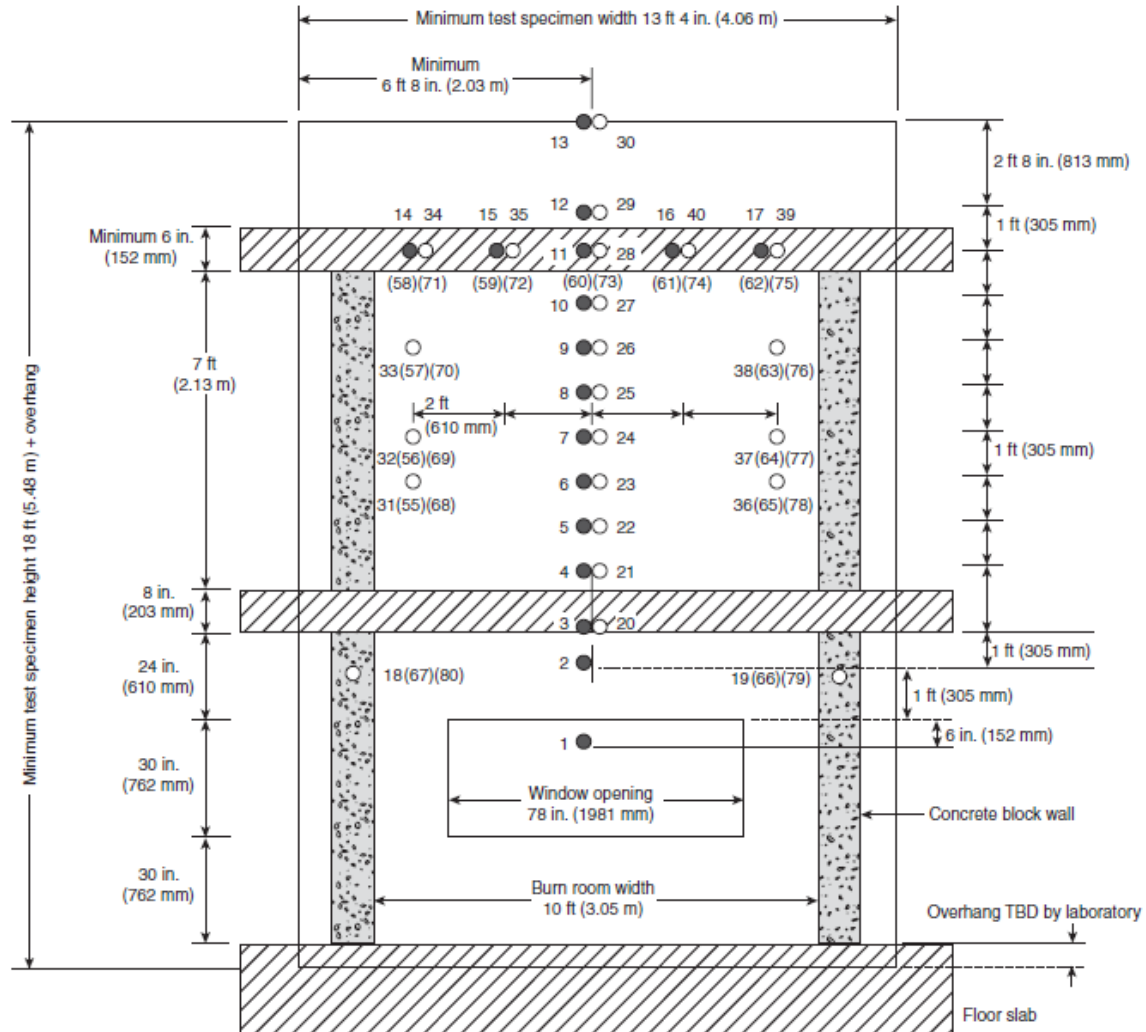
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Standard TC Locations



● Thermocouples — 1 in. (25 mm) from exterior wall surface

○ Thermocouples — In the wall cavity air space or the insulation, or both, as shown in Figure 6.1(b) Details A through I.

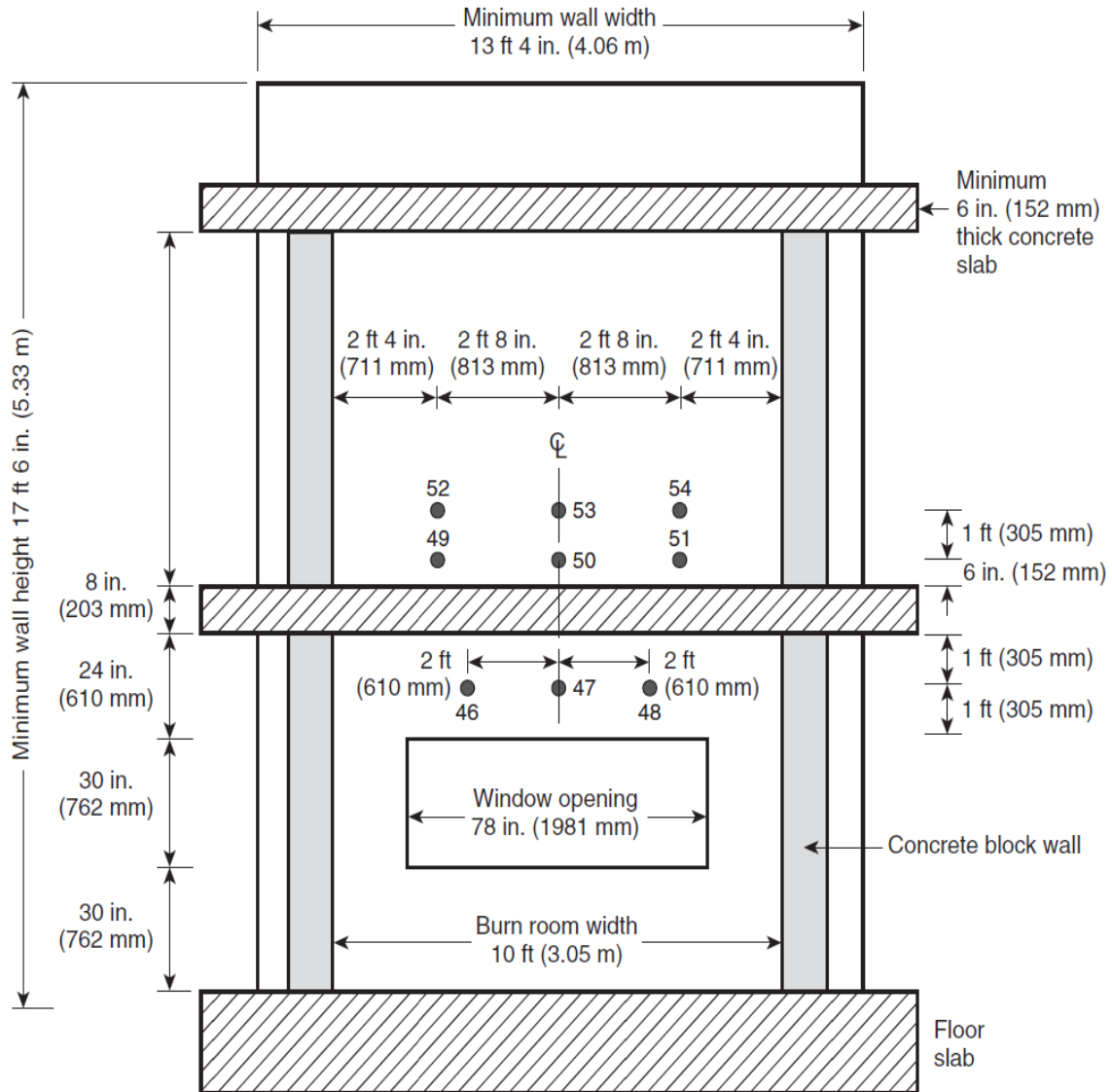
() Thermocouples — Additional thermocouples in the insulation or the stud cavity, or both, where required for the test specimen construction being tested, as shown in Figure 6.1(b) Details C through I.

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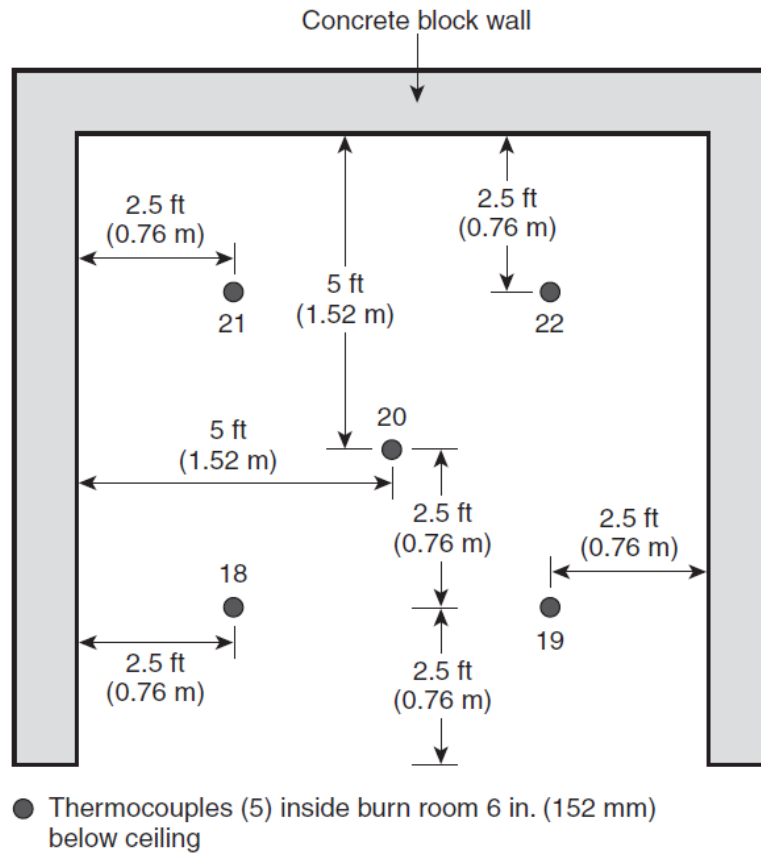
● Thermocouples — 1 in. (25 mm) from interior wall surface

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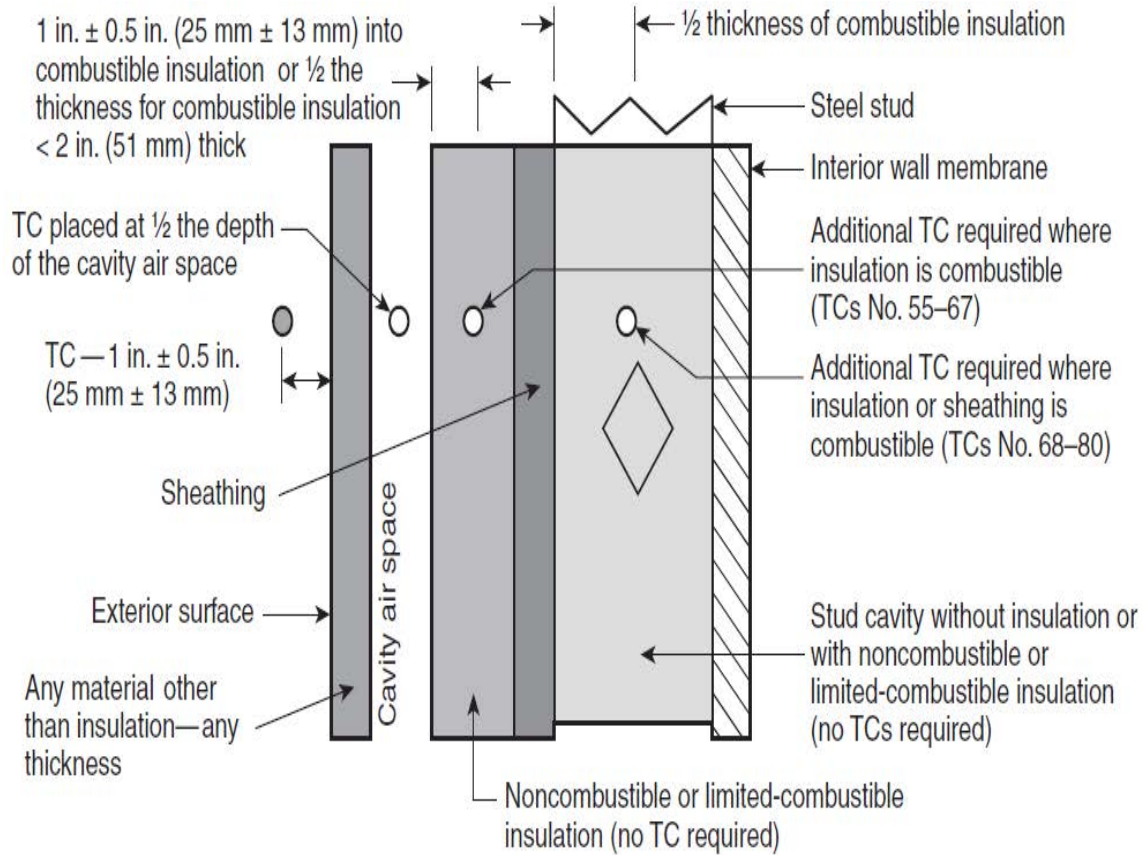


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Total Quality. Assured.

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SECTION 15 REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	01/28/20	N/A	Original Report Issue
1	02/06/20	1 & 2	Changed GVH to GHV