

# ARCONIC ARCHITECTURAL PRODUCTS TEST REPORT

## SCOPE OF WORK

NFPA 285-2023, FIRE TEST FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS WALL ASSEMBLY CONTAINING 4 MM REYNOBOND FR WITH CORE 12

## REPORT NUMBER

G105260808SAT-001 R1

## TEST DATE(S)

12/28/22

## ISSUE DATE [REVISED DATE]

01/06/23 01/18/23

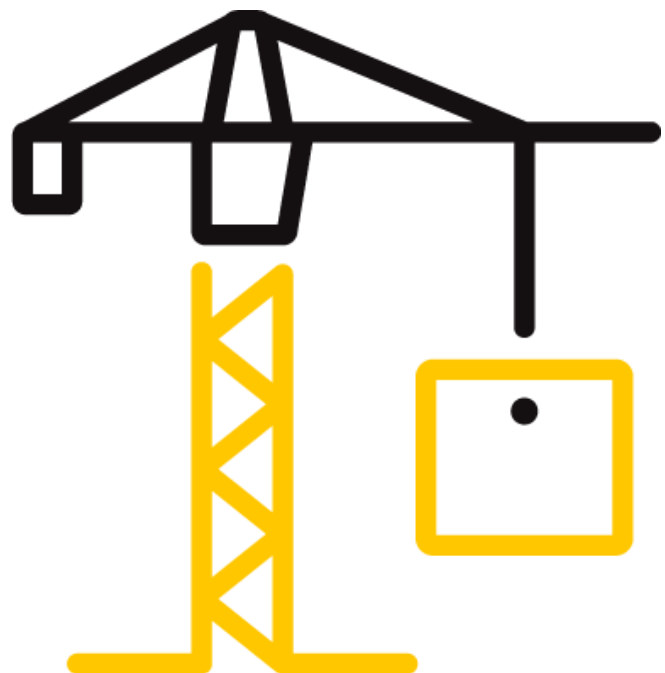
## PAGES

52

## DOCUMENT CONTROL NUMBER

GFT-OP-10c (09/29/20)

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## TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

Report No.: G105260808SAT-001 R1

Date: 01/06/23

### REPORT ISSUED TO

#### ARCONIC ARCHITECTURAL PRODUCTS

50 Industrial Drive  
Eastman, GA 31023

### SECTION 1

#### SCOPE

Intertek Testing Services NA, Inc. dba Intertek Building & Construction (B&C) was contracted by Arconic Architectural Products, 50 Industrial Drive, Eastman, GA 31023 to perform testing in accordance with NFPA 285, *Standard Fire Test Methods for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing wall assemblies, dated September 2022*, on their 4mm Reynobond FR panels with Core 12. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek Testing Services NA, Inc. test facility in Elmendorf, TX.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

### SECTION 2

#### SUMMARY OF TEST RESULTS

The assembly described and tested in this report **successfully met** 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:

<b>COMPLETED BY:</b>	Emmanuel Ogoe	<b>REVIEWED BY:</b>	Abel de Hoyos
<b>TITLE:</b>	Project Engineer – Fire Resistance	<b>TITLE:</b>	Senior Project Manager – Fire Resistance
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	01/04/23	<b>DATE:</b>	01/06/23

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**SECTION 3**

**TEST METHOD(S)**

The specimen was evaluated in accordance with the following:

*NFPA 285-23, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components*

**SECTION 4**

**MATERIAL SOURCE/INSTALLATION**

Test samples were provided by the client. The specimens were selected by Intertek B&C personnel. The specimens were witnessed during production and tagged prior to shipment on 11/04/22, (Reference Intertek B&C Test Specimen Selection Report No. P4071.01, dated 11/04/22).

The test samples were received by the test facility on 12/27/22 in good condition and were assigned Intertek Sample ID No. SAT2212270830-001.

**SECTION 5**

**EQUIPMENT**

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
99LE006	Data Acquisition Unit	Yokogawa	04/14/23
10361068	Thermo/Hygrometer	Omega	08/29/23
170199534	Stopwatch	Fisher Scientific	03/23/23

**SECTION 6**

**LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Amanda Woodard	Arconic
Trey Jones	Arconic
Adriana Machuca	Intertek B&C
Colby Friant	Intertek B&C
Andres Olmos	Intertek B&C
Jonathan Werner	Intertek B&C
Emmanuel Ogoe	Intertek B&C

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**SECTION 7**

**TEST PROCEDURE**

The wall assembly was instrumented with thermocouples (TCs) in accordance with figures 6.1(a) and 6.1(b), Detail H of NFPA 285 test method. 18-gauge Type K TCs were used in the burn room and 24-gauge Type K was used on exterior façade and combustible core space. The window burner was positioned in the center of the opening and 4 in. off the exterior face of the wall assembly. Testing was performed on 01/10/2019 in accordance with NFPA 285 test method. Ambient conditions were 69°F and 74.2% relative humidity. 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 10:54 AM 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 with propane gas as the fuel source and the window burner placed 4 inches from the exterior surface of the assembly and vertically centred on the window opening. 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 6.3 shows a list of the calibrated equipment used for test.

Table 6.1 Average Burner Output Information

TIME INTERVAL (MIN:SEC)	ROOM BURNER (SCFM)	WINDOW BURNER (SCFM)	2 FT FLUX (W/cm <sup>2</sup> )	3 FT FLUX (W/cm <sup>2</sup> )	4 FT FLUX (W/cm <sup>2</sup> )
0:00-5:00	16.5	0.0	1.0	1.3	0.8
5:00-10:00	16.5	5.6	1.5	2.1	1.4
10:00-15:00	16.5	6.3	1.9	2.7	1.6
15:00-20:00	17.2	7.2	2.8	3.5	2.0
20:00-25:00	17.1	7.9	3.2	3.7	2.2
25:00-30:00	17.7	8.2	4.1	4.5	2.6

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	1212	1118	593	796	708	610	525	485
5:00-10:00	1381	1278	837	961	1001	945	847	773

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Average Time Temperature Values for Calibration (continued)								
10:00-15:00	1417	1320	940	1010	1044	990	879	798
15:00-20:00	1525	1434	1059	1078	1152	1140	1016	924
20:00-25:00	1583	1488	1150	1171	1241	1160	1000	897
25:00-30:00	1630	1581	1168	1224	1293	1283	1122	1022

**SECTION 8**

**TEST SPECIMEN DESCRIPTION**

**Interior Cladding**

The interior surface of the wall assembly was clad with 4 ft × 10 ft × 5/8 in. thick American Gypsum TYPE X 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. The joints and fastener heads received a Level 2 finish using USG Sheetrock® Brand paper joint tape and USG Sheetrock® Brand joint compound.

**Framing**

The core wall consisted of 18 ft. long, 6 in. deep, 18 GA galvanized steel studs spaced 16 in. oc fastened to 14 ft. long, 6 in. deep, 18 GA galvanized steel track as shown in Section 14. The studs were connected to the track with one #6 x 1/2 in. long self-drilling, pan head fastener per stud flange. Johns Manville MinWool® Safing pieces with a nominal density of 4.0 pcf 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**

4 ft × 10 ft × 1/2 in. thick DensGlass Gold exterior gypsum sheathing 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.

**Weather Resistant Barrier**

VaproShield® WrapShield SA® water resistive self-adhesive air barrier was applied directly to the exterior of the Exterior Sheathing, with a minimum 4 in. overlap at all seams.

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**Z-Girts**

3" x 2" x 3" 16 GA, galvanized steel, Z-girts were installed Horizontally from the base of the floor to the top edge of the base wall using #12 14x1-1/4 hex-head self-drilling screws, spaced at nominally 16 in. oc.

**Exterior Insulation**

2-inch Rockwool CAVITYROCK<sup>®</sup> Insulation at 4.3 +/- 10% pcf was then applied in the cavities between girts at a friction fit.

**Exterior Panels**

Arconic 4mm Reynobond ACM panels with FR with Core 12 were then installed onto the wall by means of the Z-girts and additional 16GA, 3 in. wide steel strapping, spaced 16 in. oc, and attached using #12 x 3/4 in. long hex-head self-drilling screws. 4mm pre-painted spline pieces were used to cover the joint. Horizontal joints extended along the full width of the wall. The vertical joint extended upward the full height of the wall from the top of the window opening and was centered along the window opening's center line. Both horizontal and vertical joints were in compliance with NFPA 285-2023 joint requirements.

**Window Detail**

A 78 in. x 30 in. window opening was framed out in the center of the wall, 40 in. from the lab frame, 30 in. above the first story floor, using 18 GA, 6 in. deep track. The opening was then flashed using .040 in. aluminum flashing attached with 3/4 in. hex head, self-drilling fasteners. Aluminum L-flashing was applied on the exterior sheathing around the window frame with one side flush with the interior sheathing. Flashing overlapped from the outside 2-1/4 inches.

\*See Section 14 for assembly description drawings:

**SECTION 9**

**TEST OBSERVATIONS**

TIME (Min:Sec)	OBSERVATIONS
00:00	Ignition of room burner. Test started @ 9:00 A.M.
00:50	Flashing warping
01:13	Flame tips exiting window
03:50	Flashing on fire
10:52	Panels above window warped
16:40	Center panel joint opening up
19:12	Panel skin melting off
21:00	Pieces of core falling out
22:00	Panels opened up in center

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<b>TEST OBSERVATIONS (Continued)</b>	
24:00	Flame height at 5.5 feet
24:20	Mineral wool exposed
28:55	Flame height at 7 ft
30:00	Test ended

**SECOND FLOOR OBSERVATIONS**

<b>TIME (Min:Sec)</b>	<b>OBSERVATIONS</b>
00:00	Test started @ 9:00 A.M.
00:45	Very light smoke from middle angle
03:30	Smoke increases slightly
05:00	Window burner ignited
06:00	Light smoke from top of room
10:00	2 <sup>nd</sup> floor room visibility at 95%
15:00	No significant changes
19:40	Popping from sample heard
22:00	2 <sup>nd</sup> floor room visibility at 90%
26:00	2 <sup>nd</sup> floor room visibility at 85%. Light popping again from sample
28:00	Smoke denser and blacker from angle
30:00	End of test

**SECTION 10**

**TEST RESULTS**

<b>TEST REQUIREMENTS</b>	<b>TEST RESULTS</b>	<b>PASS/FAIL</b>
Flames did not reach 10 ft. above the window opening header.	Flames did not reach 10 ft. above the window opening header.	<b>PASS</b>
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.	<b>PASS</b>
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.	<b>PASS</b>
No visible flaming in the second story test room	No visible flaming in the second story test room.	<b>PASS</b>
TC's 11 and 14-17 (1000°F limit)	TC's 11 and 14-17 did not exceed their 1000°F limit.	<b>PASS</b>
TC's 18-19, 28, and 31-40 (1000°F limit)	TC's 18-19, 28, and 31-40 did not exceed their 750°F limit.	<b>PASS</b>

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TEST RESULTS Continued		
TC's 49-54 (500°F above ambient)	TC's 49-54 did not exceed 500°F above their ambient temperatures.	<b>PASS</b>

### SECTION 11 CONCLUSION

The Arconic wall system containing 4mm Reynobond FR panels with Core 12panels **met** the conditions of acceptance outlined in **NFPA 285-23**, STANDARD FIRE TEST METHOD FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS OF EXTERIOR WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS, dated November 2018.



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### SECTION 12 PHOTOGRAPHS



Photo No. 1  
Base Wall



Photo No. 2  
Mineral wool

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Photo No. 3  
Vapor barrier



Photo No. 4  
Samples received

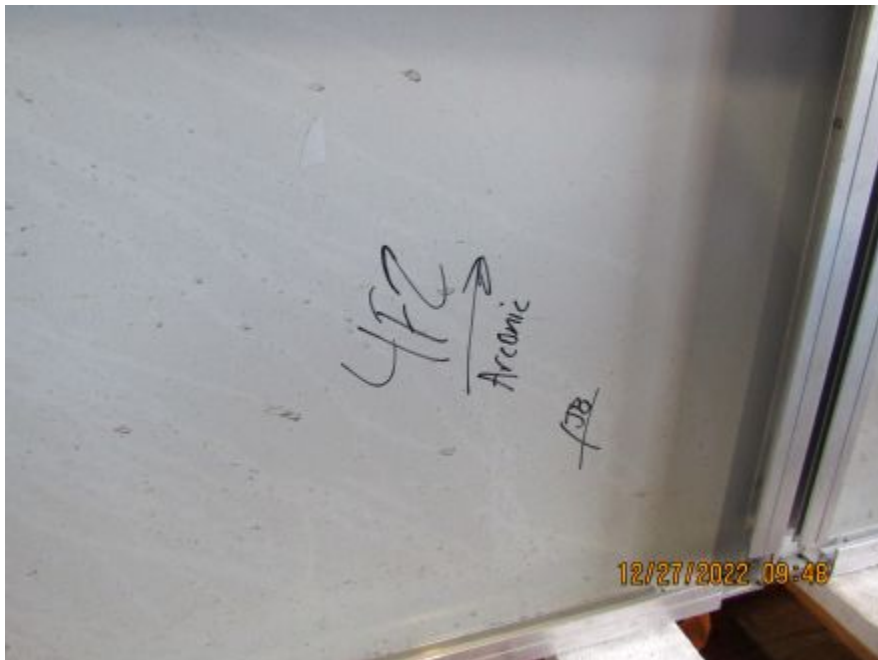
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**Photo No. 5**  
**Window flashing**



**Photo No. 6**  
**Sampling markings**



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**Photo No. 7**  
Installing vapor barrier



**Photo No. 8**  
Installing zee girts and mineral wool

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**Photo No. 9**  
**Mineral wool installed**



**Photo No. 10**  
**Installing panels with support steel strapping**

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**Photo No. 11**  
**Panel installation continued**



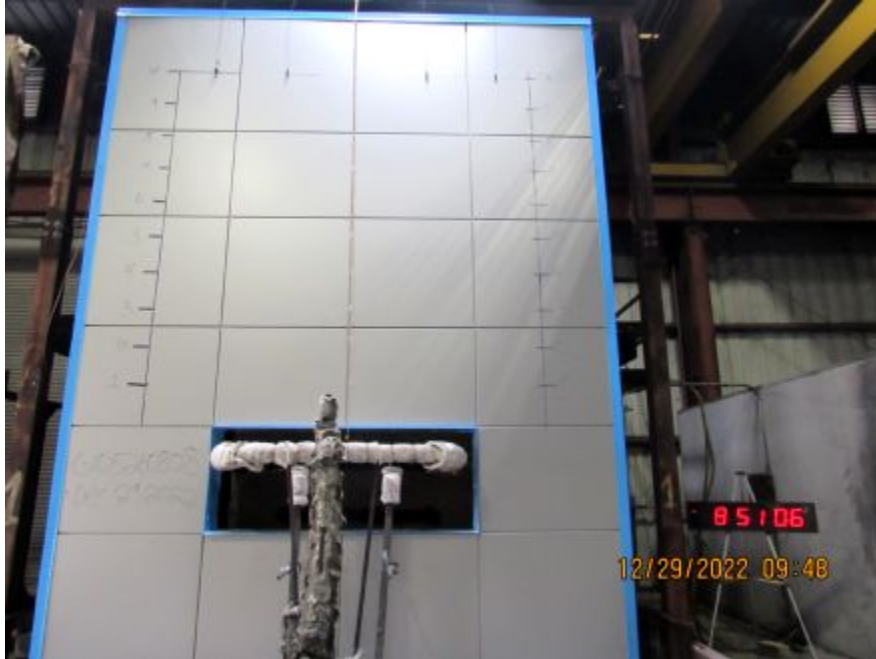
**Photo No. 12**  
**Wall assembly completed**



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**Photo No. 13**  
**Test Setup**



**Photo No. 14**  
**Start of Test**

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**Photo No. 15**  
**Flames exiting window opening**



**Photo No. 16**  
**Window burner ignited**



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**Photo No. 17**  
Panels above opening beginning to open up



**Photo No. 18**  
Flame height increased

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**Photo No. 19**  
**Flaming on sample at 5.5 feet**



**Photo No. 20**  
**End of test – residual flaming**

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**Photo No. 21**  
**Front of wall post-test**



**Photo No. 22**  
**2<sup>nd</sup> story back of wall post-test**

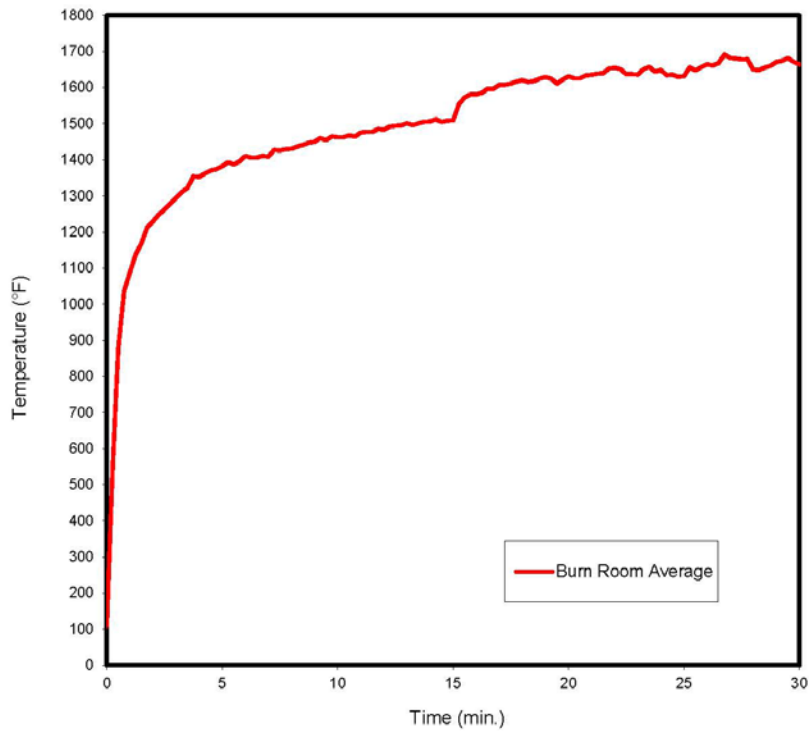
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### SECTION 13 GRAPHS

Arconic  
Project No. G105260808SAT-001  
December 29, 2022  
Burn Room Average

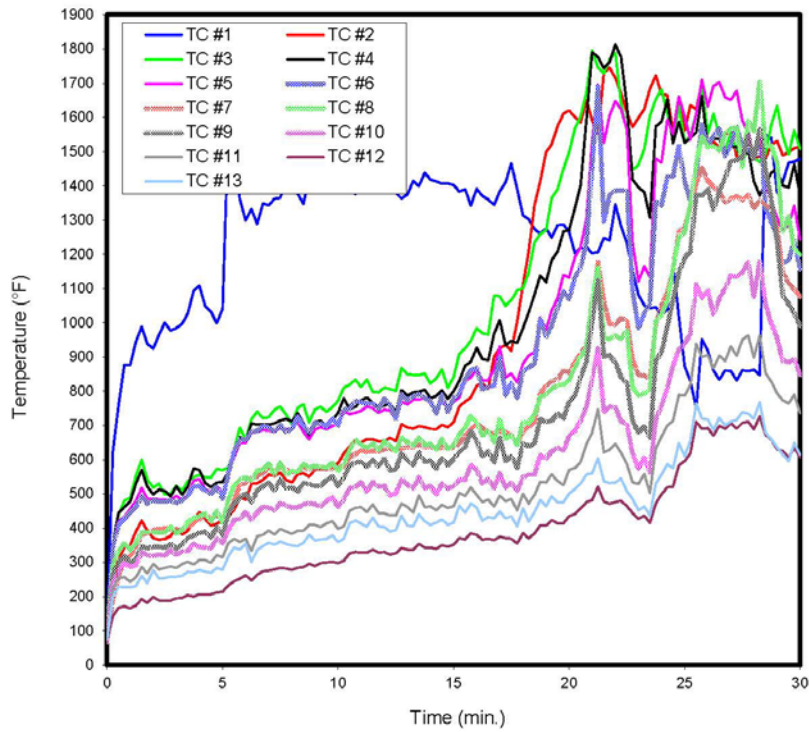


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Arconic  
Project No. G105260808SAT-001  
December 29, 2022  
Vertical Face  
TC 1-13

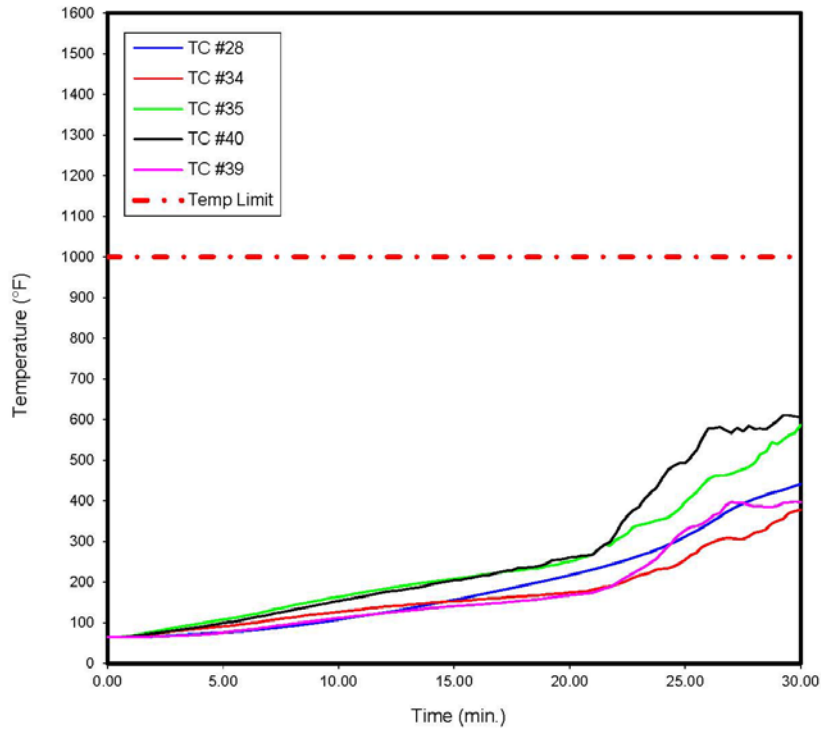


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Arconic  
Project No. G105260808SAT-001  
December 29, 2022  
10-ft Air Cavity  
TC 28, 34, 35, 39, 40



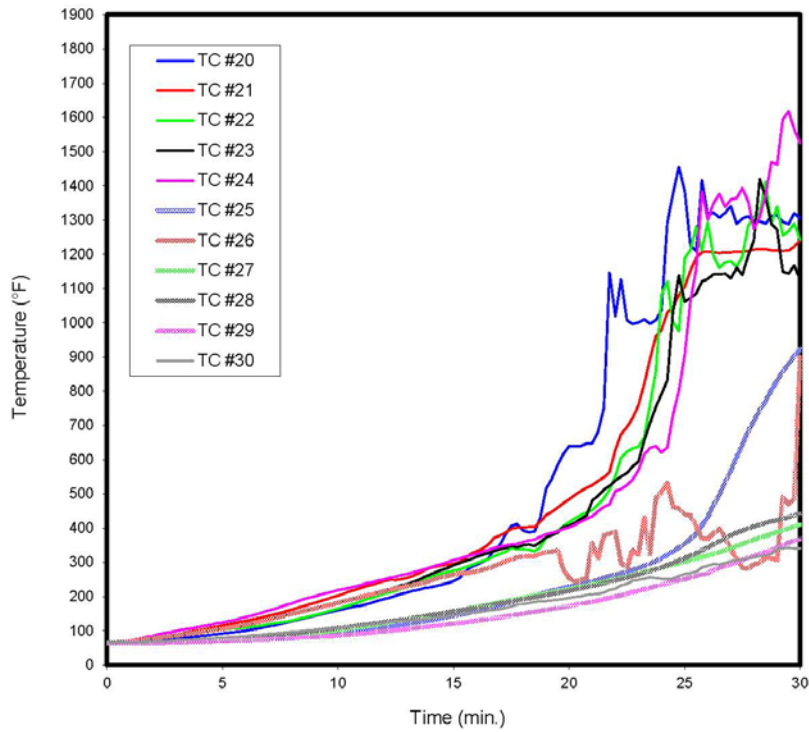
[AdHII]

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Arconic  
Project No. G105260808SAT-001  
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Vertical Air Cavity  
TC 20-30



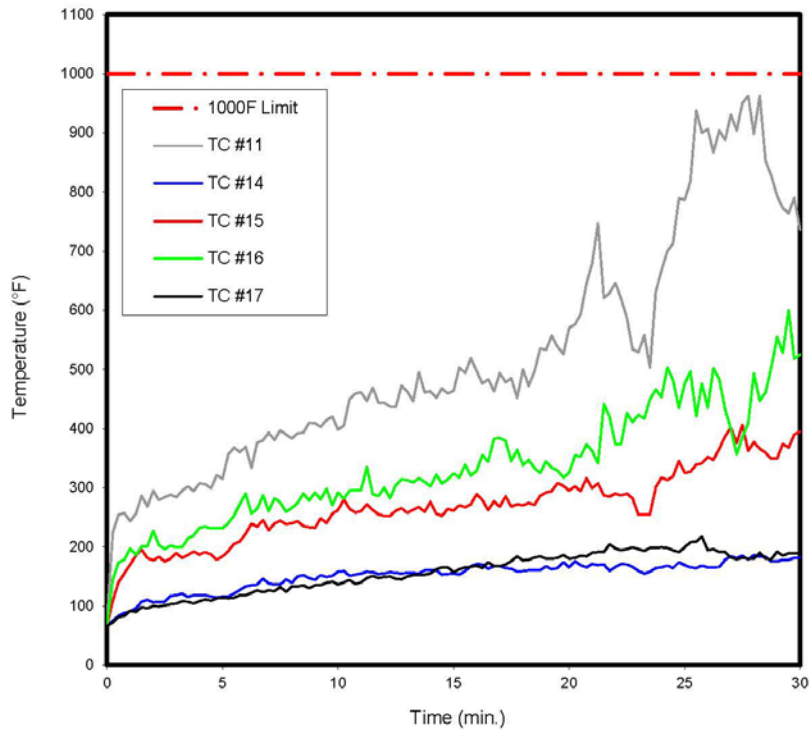


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Arconic  
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10-ft Front Face  
TC 11, 14-17



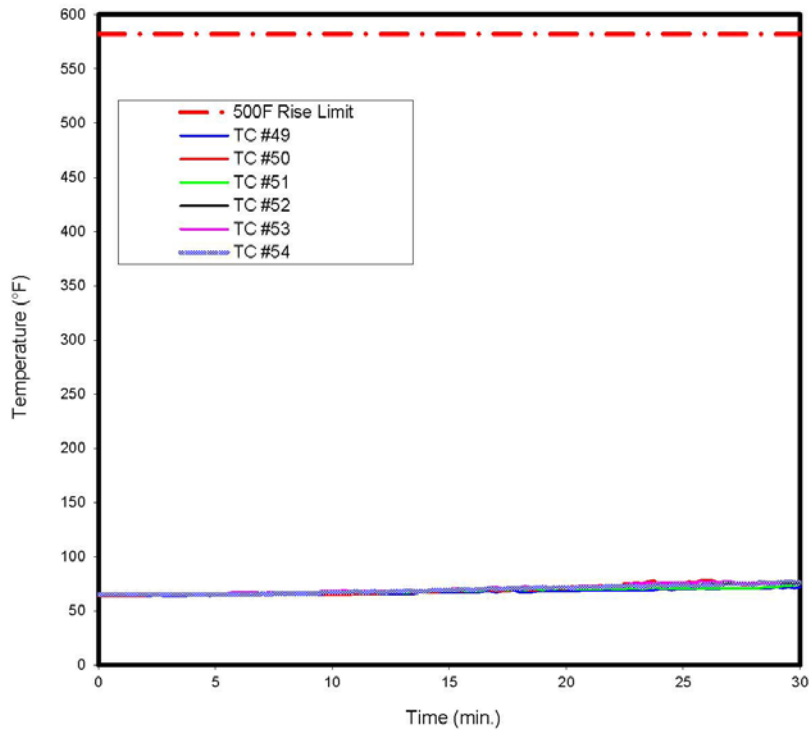


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Arconic  
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2nd Floor, 1-in from wall  
TC 49-54

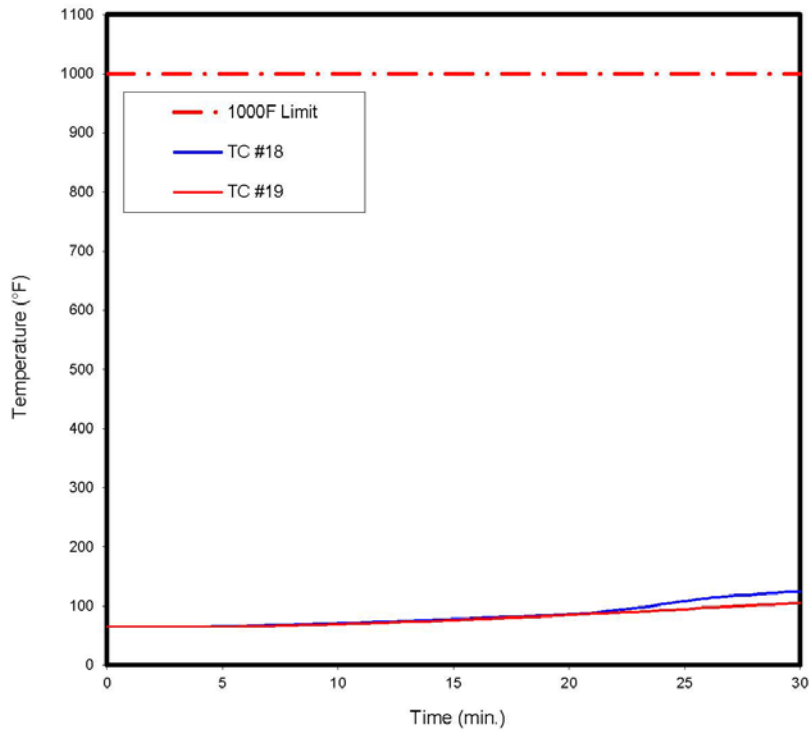


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Arconic  
Project No. G105260808SAT-001  
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Air Cavity  
TC 18, 19

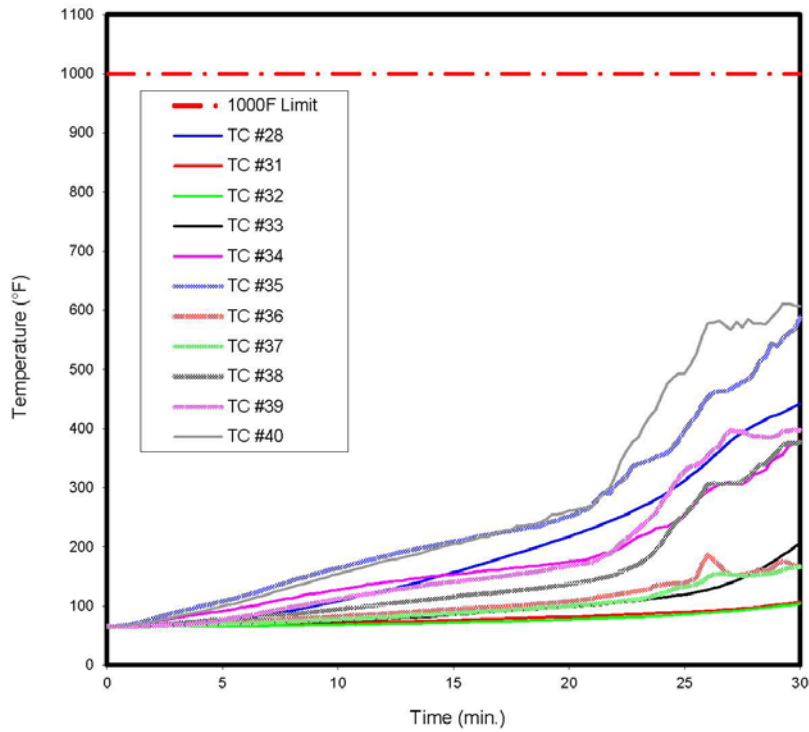


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Arconic  
Project No. G105260808SAT-001  
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Air Cavity  
TC 28, 31-40

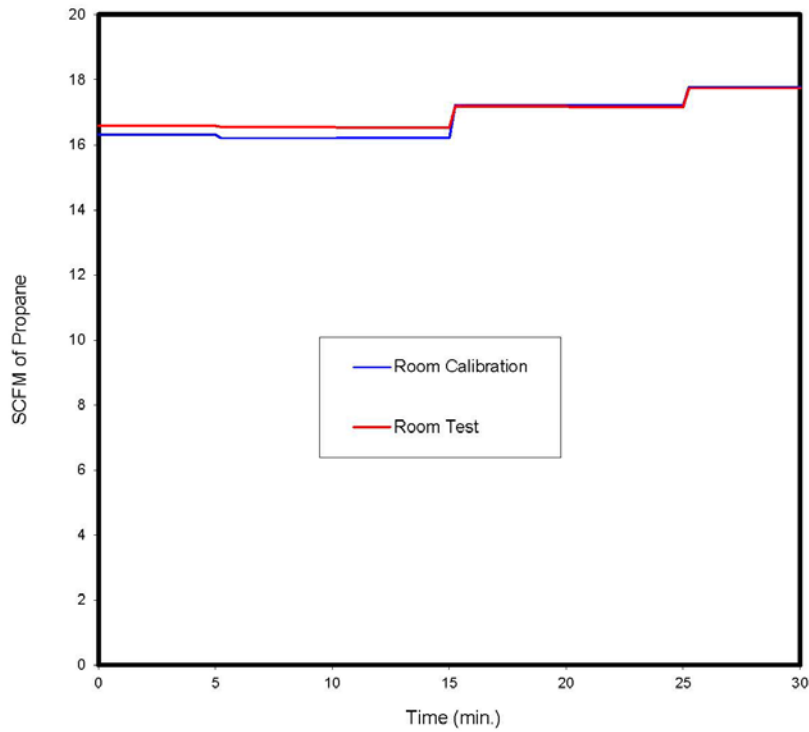


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Arconic  
Project No. G105260808SAT-001  
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Room Burner Flow Rates

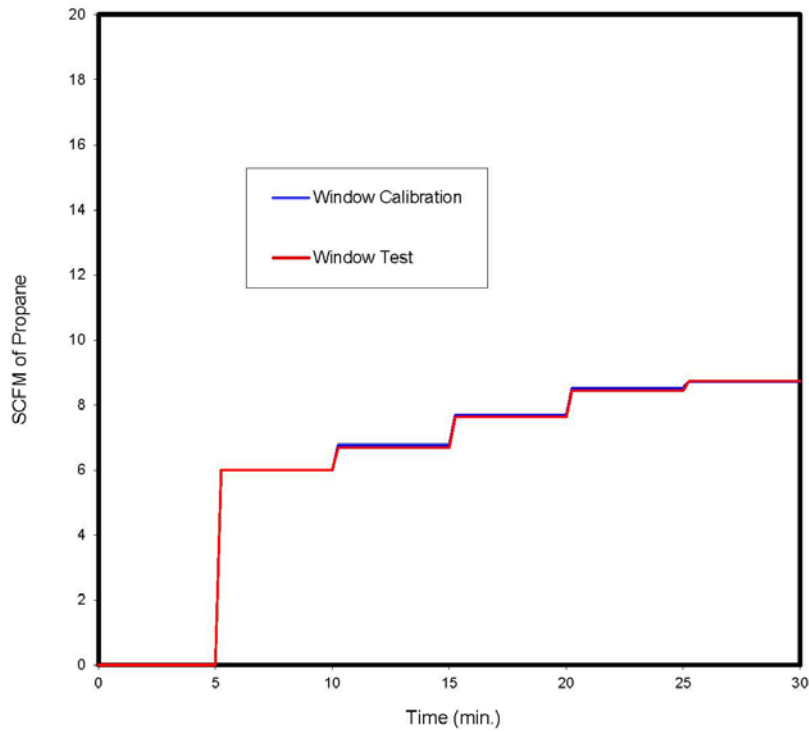


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Arconic  
Project No. G105260808SAT-001  
December 29, 2022  
Window Burner Flow Rates





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#### SECTION 14 TABULAR DATA

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	Burn Room	Pass/ Fail													
		TC #1 (°F)	TC #2 (°F)	TC #3 (°F)	TC #4 (°F)	TC #5 (°F)	TC #6 (°F)	TC #7 (°F)	TC #8 (°F)	TC #9 (°F)	TC #10 (°F)	TC #11 (°F)	TC #12 (°F)	TC #13 (°F)	TC #14 (°F)
0.00	109	72	73	80	80	79	78	68	74	74	73	74	69	72	67
0.25	547	623	193	334	354	349	345	190	289	267	237	224	143	199	75
0.50	877	756	309	438	444	420	409	261	333	299	274	254	167	229	83
0.75	1037	877	343	480	462	432	427	303	355	318	298	257	172	228	88
1.00	1088	876	350	488	477	456	445	319	336	298	287	243	166	227	91
1.25	1138	944	390	552	530	480	463	348	355	310	291	256	174	231	96
1.50	1169	988	421	599	570	517	493	379	388	347	330	286	193	260	107
1.75	1212	938	392	542	521	485	471	387	388	341	321	268	181	240	110
2.00	1229	924	371	518	498	486	481	394	388	345	319	295	199	277	106
2.25	1248	964	366	530	513	484	477	397	386	345	323	279	189	253	107
2.50	1262	1000	368	498	509	484	477	399	388	343	320	284	188	254	107
2.75	1279	977	377	501	492	483	481	397	404	353	335	288	189	258	117
3.00	1294	984	399	524	522	494	474	394	384	340	322	284	195	258	118
3.25	1311	997	381	509	498	482	481	397	395	352	332	295	196	261	121
3.50	1322	1027	392	538	521	498	497	405	417	371	334	302	204	273	115
3.75	1354	1094	423	549	575	539	521	415	429	379	353	294	200	271	118
4.00	1352	1108	446	555	570	543	523	427	435	386	345	307	207	278	118
4.25	1362	1049	426	548	532	514	510	439	442	389	343	306	206	273	118
4.50	1371	1032	408	548	520	507	500	429	419	372	341	299	207	270	116
4.75	1374	999	412	573	533	523	521	436	450	403	369	321	212	283	114
5.00	1382	1040	425	570	535	503	486	426	416	379	355	315	214	278	116
5.25	1393	1564	434	577	562	556	559	446	481	441	394	356	233	317	116
5.50	1387	1477	453	628	613	608	624	480	525	471	424	368	244	343	121
5.75	1396	1362	490	693	666	648	659	526	542	488	426	360	252	337	127
6.00	1410	1299	483	660	653	649	657	532	548	501	447	369	262	354	133
6.25	1406	1332	529	718	706	677	681	546	539	476	424	334	247	302	135
6.50	1406	1288	531	740	702	681	684	550	568	511	445	376	264	336	136
6.75	1411	1348	541	721	702	687	698	562	572	522	462	380	274	348	146
7.00	1408	1343	556	724	702	684	694	576	588	533	460	393	276	357	138
7.25	1427	1362	552	746	706	682	683	568	557	510	452	381	279	352	136
7.50	1426	1365	562	755	714	693	701	580	591	543	473	397	284	361	136
7.75	1429	1415	541	732	719	689	680	570	557	516	466	390	282	354	145
8.00	1430	1397	533	703	711	691	691	565	567	519	460	383	278	349	139
8.25	1437	1377	557	751	736	710	725	566	564	507	460	392	284	347	150
8.50	1441	1347	560	761	706	681	698	575	587	532	469	393	286	357	152
8.75	1447	1427	550	709	669	659	679	572	577	528	473	410	296	380	147
9.00	1450	1427	571	747	709	688	707	573	581	523	470	409	289	364	144
9.25	1459	1446	573	754	714	695	705	578	579	524	463	403	298	367	152
9.50	1454	1452	571	740	695	689	697	575	576	540	478	414	300	368	149
9.75	1465	1409	581	753	714	698	720	573	590	551	490	420	302	379	151
10.00	1462	1444	589	772	737	705	700	577	568	523	462	398	298	359	158
10.25	1462	1455	618	810	779	742	746	582	587	548	485	405	305	369	159
10.50	1468	1387	638	819	748	733	749	605	627	582	517	450	326	414	151
10.75	1464	1376	657	833	754	737	771	617	658	592	520	459	330	422	153
11.00	1475	1412	650	813	773	743	768	626	644	594	534	461	329	413	155
11.25	1477	1400	660	833	781	755	764	623	634	579	507	447	328	404	158
11.50	1477	1450	659	798	766	751	764	625	647	600	535	469	337	430	157
11.75	1485	1440	654	796	754	737	749	624	628	580	521	444	329	405	154
12.00	1483	1381	653	811	758	746	777	631	654	603	523	443	330	403	155
12.25	1492	1402	664	806	765	743	759	632	639	568	496	437	323	390	157
12.50	1494	1379	654	801	737	721	720	627	625	572	501	437	327	394	156

## TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	Burn														Pass/Fall	
	Room	TC #1	TC #2	TC #3	TC #4	TC #5	TC #6	TC #7	TC #8	TC #9	TC #10	TC #11	TC #12	TC #13	TC #14	Pass/Fall
(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
12.75	1496	1363	703	867	803	769	791	633	664	618	541	472	342	436	155	
13.00	1501	1374	694	849	787	761	774	636	651	599	528	462	337	407	156	
13.25	1496	1414	691	848	796	775	785	637	642	584	516	446	336	405	156	
13.50	1501	1399	698	847	798	776	791	644	664	621	549	495	354	440	155	
13.75	1505	1438	695	851	804	779	780	636	643	594	516	461	343	420	160	
14.00	1506	1418	690	822	779	766	772	640	646	597	523	463	343	409	160	
14.25	1512	1413	689	838	786	743	735	630	630	574	499	452	339	416	160	
14.50	1504	1406	701	863	802	771	789	636	660	605	530	468	350	425	153	
14.75	1508	1407	695	810	777	752	740	633	632	584	515	459	346	410	154	
15.00	1509	1402	709	841	800	769	779	635	642	602	523	464	351	416	155	
15.25	1553	1383	755	909	830	782	793	649	672	623	541	503	371	465	153	
15.50	1573	1390	770	925	875	830	836	668	694	637	541	494	367	445	159	
15.75	1581	1342	781	947	886	840	860	690	727	683	584	519	384	472	167	
16.00	1581	1391	816	984	927	865	868	703	710	655	571	497	380	460	171	
16.25	1585	1370	824	969	894	831	805	695	670	610	531	476	366	422	170	
16.50	1596	1380	806	966	890	832	813	679	684	624	544	483	369	432	163	
16.75	1597	1344	901	1079	968	864	817	676	652	592	517	463	365	428	167	
17.00	1607	1383	926	1077	1007	930	898	683	716	664	561	494	375	449	167	
17.25	1608	1410	935	1049	934	840	789	680	662	596	518	478	371	428	164	
17.50	1611	1465	918	1066	947	851	823	671	671	611	532	485	369	434	163	
17.75	1617	1391	1003	1094	941	826	780	647	643	577	509	452	355	405	158	
18.00	1620	1313	1110	1101	984	880	859	681	709	648	549	500	385	458	159	
18.25	1615	1303	1207	1146	1030	904	870	697	707	639	556	472	370	419	160	
18.50	1618	1273	1343	1235	1082	914	880	711	731	647	557	497	384	447	161	
18.75	1624	1260	1412	1259	1137	1016	1011	793	783	719	613	535	408	482	160	
19.00	1629	1275	1497	1270	1119	979	960	815	790	710	604	533	407	464	167	
19.25	1625	1249	1521	1364	1183	1035	993	829	806	714	624	557	423	493	162	
19.50	1611	1285	1574	1389	1207	1072	1043	835	818	734	635	538	414	475	164	
19.75	1622	1287	1611	1449	1266	1139	1091	860	820	721	627	526	414	475	174	
20.00	1631	1266	1620	1497	1271	1132	1070	854	831	769	669	570	435	501	165	
20.25	1625	1203	1600	1567	1335	1191	1133	885	870	787	684	576	441	514	176	
20.50	1625	1219	1584	1602	1401	1220	1162	909	901	840	714	593	457	530	169	
20.75	1633	1221	1651	1673	1594	1304	1234	935	927	887	755	645	476	557	165	
21.00	1635	1203	1591	1795	1790	1528	1457	1036	1070	1004	835	679	482	560	171	
21.25	1639	1206	1552	1746	1776	1696	1690	1177	1160	1124	926	747	521	604	169	
21.50	1640	1248	1730	1729	1743	1525	1297	1064	955	901	740	621	477	537	170	
21.75	1653	1241	1745	1768	1761	1604	1373	996	952	905	755	629	471	531	159	
22.00	1655	1345	1715	1788	1812	1647	1386	995	963	883	753	646	476	533	166	
22.25	1651	1282	1671	1641	1776	1624	1386	1013	953	841	712	620	480	545	171	
22.50	1637	1233	1614	1560	1635	1564	1385	1006	977	821	702	587	464	508	170	
22.75	1637	1150	1572	1446	1418	1235	1095	893	812	714	618	534	444	485	166	
23.00	1636	1082	1598	1461	1395	1121	984	847	787	679	574	529	427	452	159	
23.25	1651	1051	1624	1507	1382	1164	1027	846	793	697	606	558	436	463	155	
23.50	1657	1043	1683	1604	1307	1134	1058	836	804	664	563	503	415	437	158	
23.75	1644	1045	1722	1653	1573	1479	1354	998	1006	890	718	632	472	530	164	
24.00	1649	1021	1668	1681	1587	1468	1342	1051	1024	913	758	667	499	556	165	
24.25	1634	1039	1664	1612	1652	1593	1427	1089	1063	989	808	700	519	587	168	
24.50	1636	1175	1558	1532	1524	1551	1427	1154	1157	1065	875	713	521	575	164	
24.75	1629	1018	1661	1634	1586	1661	1515	1266	1249	1145	921	789	583	648	174	
25.00	1632	872	1561	1527	1525	1602	1412	1280	1265	1190	939	787	596	610	169	
25.25	1656	829	1635	1547	1540	1534	1356	1336	1347	1208	967	818	619	656	165	



Total Quality. Assured.

16015 Shady Falls Road  
Elmendorf, Texas 78112

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### TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Burn Time (min)	Room	Pass/ Fail													
		TC #1 (°F)	TC #2 (°F)	TC #3 (°F)	TC #4 (°F)	TC #5 (°F)	TC #6 (°F)	TC #7 (°F)	TC #8 (°F)	TC #9 (°F)	TC #10 (°F)	TC #11 (°F)	TC #12 (°F)	TC #13 (°F)	TC #14 (°F)
25.50	1647	751	1624	1611	1556	1611	1440	1406	1465	1374	1112	938	710	764	164
25.75	1657	951	1701	1693	1663	1709	1579	1453	1544	1371	1073	900	690	720	168
26.00	1665	919	1511	1552	1514	1632	1514	1415	1513	1390	1093	906	692	717	165
26.25	1661	860	1529	1610	1538	1692	1547	1397	1516	1331	1025	867	670	687	165
26.50	1668	834	1512	1548	1538	1702	1566	1384	1502	1382	1070	904	699	722	166
26.75	1691	860	1548	1504	1493	1659	1487	1351	1552	1425	1101	888	690	700	178
27.00	1682	859	1559	1553	1513	1651	1521	1362	1567	1471	1137	931	707	711	184
27.25	1680	831	1485	1505	1514	1677	1571	1370	1569	1474	1134	904	691	716	181
27.50	1678	861	1504	1484	1474	1591	1518	1359	1456	1484	1147	950	707	739	185
27.75	1679	858	1539	1562	1506	1553	1510	1373	1590	1547	1177	963	711	734	178
28.00	1650	862	1482	1482	1413	1477	1478	1335	1560	1478	1076	898	689	720	186
28.25	1648	847	1486	1469	1372	1540	1552	1358	1704	1566	1180	963	726	768	183
28.50	1655	1548	1481	1493	1408	1407	1334	1343	1516	1446	1052	852	672	678	183
28.75	1660	1540	1519	1577	1437	1352	1296	1334	1517	1362	998	828	659	660	175
29.00	1671	1380	1531	1633	1449	1307	1248	1275	1467	1236	955	793	630	636	175
29.25	1674	1412	1489	1546	1400	1271	1175	1146	1267	1081	889	773	625	615	178
29.50	1681	1467	1498	1492	1395	1284	1183	1117	1311	1055	885	764	606	596	178
29.75	1671	1470	1510	1561	1463	1342	1238	1097	1215	1027	893	790	634	649	181
30.00	1664	1479	1513	1508	1372	1243	1156	1076	1198	990	847	736	607	614	182
Max Temp		1564	1745	1795	1812	1709	1690	1453	1704	1566	1180	963	726	768	186
Max Allowed												1000			1000





Total Quality. Assured.

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### TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	TC #20 (°F)	TC #21 (°F)	TC #22 (°F)	TC #23 (°F)	TC #24 (°F)	TC #25 (°F)	TC #26 (°F)	TC #27 (°F)	Pass/ Fail
	TC #15 (°F)	TC #16 (°F)	TC #17 (°F)	TC #18 (°F)	TC #19 (°F)									TC #28 (°F)
0.00	67	69	66	65	65	64	66	66	66	65	65	65	65	65
0.25	109	145	72	65	65	64	67	66	66	65	65	65	65	65
0.50	140	173	81	65	65	64	66	66	65	65	65	65	65	65
0.75	155	178	83	65	65	65	67	66	66	67	65	67	65	65
1.00	170	197	92	65	65	66	68	68	67	71	65	69	65	65
1.25	185	186	90	65	65	67	71	69	69	75	65	71	65	65
1.50	195	201	98	65	65	69	73	71	71	78	65	75	65	65
1.75	181	201	96	65	65	70	74	73	74	83	65	77	65	66
2.00	177	227	100	65	65	72	76	75	77	85	65	78	65	66
2.25	183	203	99	65	65	73	79	78	80	90	66	80	66	67
2.50	175	196	101	65	65	73	82	80	82	93	66	82	66	68
2.75	180	202	103	65	65	75	86	83	84	96	66	84	66	69
3.00	189	199	104	65	65	77	89	85	86	99	67	86	67	70
3.25	181	199	108	65	65	78	92	89	87	103	68	89	68	71
3.50	186	214	107	65	65	80	95	91	90	105	68	91	68	71
3.75	192	219	104	65	65	82	99	94	93	108	69	93	69	72
4.00	187	232	108	65	65	84	102	96	94	112	69	96	70	73
4.25	191	234	111	65	65	86	105	99	97	115	70	99	70	74
4.50	187	231	109	65	65	88	109	101	100	118	70	101	71	75
4.75	178	231	113	66	65	90	112	103	104	122	71	104	72	76
5.00	184	231	114	66	65	92	116	103	107	124	71	106	73	76
5.25	193	240	113	66	65	94	119	105	108	128	72	109	73	77
5.50	205	253	114	66	65	96	122	107	110	131	73	112	74	78
5.75	209	272	118	66	65	98	126	108	112	136	73	115	75	79
6.00	222	290	118	66	66	100	129	109	116	140	74	118	76	80
6.25	239	256	122	67	66	103	133	112	120	144	75	122	77	81
6.50	234	264	126	67	66	106	136	113	124	149	75	125	79	83
6.75	245	287	123	67	66	110	140	116	128	154	76	130	80	84
7.00	228	260	126	68	66	113	144	120	135	159	77	133	81	86
7.25	239	282	125	68	66	116	148	122	138	164	78	137	83	87
7.50	244	275	132	68	67	120	152	124	143	169	79	141	84	89
7.75	238	259	124	68	67	124	157	127	146	176	80	146	85	91
8.00	240	266	133	68	67	128	162	130	152	180	81	150	87	92
8.25	243	274	133	69	67	132	167	134	154	186	82	153	89	94
8.50	235	290	135	69	68	136	172	138	156	192	84	157	90	96
8.75	233	278	130	69	68	140	177	142	161	197	85	162	92	98
9.00	232	292	135	70	68	144	182	146	164	201	86	165	94	100
9.25	248	280	135	70	68	148	187	150	171	206	88	169	96	102
9.50	240	298	139	70	68	152	192	155	174	210	90	174	98	104
9.75	256	270	141	70	69	156	198	160	180	214	92	177	100	106
10.00	262	292	136	71	69	160	203	165	182	219	93	182	102	108
10.25	280	281	140	71	69	164	209	170	187	222	95	186	104	110
10.50	264	295	144	71	70	168	215	175	191	226	97	190	107	112
10.75	258	296	137	71	70	171	220	180	194	230	99	194	109	115
11.00	260	296	140	72	70	174	226	186	199	234	101	199	111	117
11.25	272	335	147	72	70	178	231	193	204	239	103	204	114	119
11.50	262	289	151	73	71	183	235	197	207	242	105	207	116	121
11.75	255	286	147	73	71	188	241	203	213	247	107	212	119	123
12.00	252	300	149	73	71	193	245	209	217	250	110	216	122	126
12.25	252	282	150	74	72	197	249	212	222	255	112	220	125	128
12.50	261	305	146	74	72	203	248	217	227	258	115	223	128	130

## TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	Pass/Fail TC #15 (°F)	Pass/Fail TC #16 (°F)	Pass/Fail TC #17 (°F)	Pass/Fail TC #18 (°F)	Pass/Fail TC #19 (°F)	TC #20 (°F)	TC #21 (°F)	TC #22 (°F)	TC #23 (°F)	TC #24 (°F)	TC #25 (°F)	TC #26 (°F)	TC #27 (°F)	TC #28 (°F)	Pass/Fail
12.75	265	314	145	75	73	208	251	223	233	263	117	227	131	133	
13.00	257	313	150	75	73	212	255	227	236	266	120	231	133	135	
13.25	263	309	152	75	73	217	261	235	243	271	123	234	136	138	
13.50	267	316	152	76	74	220	268	243	249	275	125	237	139	140	
13.75	259	310	153	76	74	225	277	251	258	280	128	242	142	143	
14.00	276	302	155	76	74	227	284	258	265	285	131	247	145	146	
14.25	256	322	162	77	75	231	288	263	272	291	134	253	148	149	
14.50	252	307	165	77	75	235	291	268	278	295	137	257	151	151	
14.75	264	314	165	77	76	240	293	272	284	301	141	261	154	154	
15.00	261	324	157	78	76	245	295	276	292	306	144	264	157	157	
15.25	270	317	162	78	76	254	301	279	298	311	147	268	160	159	
15.50	267	339	165	78	77	273	311	285	304	316	150	268	163	162	
15.75	272	320	166	79	77	286	325	291	309	321	154	271	167	165	
16.00	289	329	168	79	78	293	333	298	316	325	158	274	170	168	
16.25	279	355	164	80	78	302	339	304	322	331	162	279	173	171	
16.50	262	344	174	80	78	310	352	309	327	336	166	282	176	174	
16.75	277	383	167	80	79	337	371	318	333	342	171	289	180	177	
17.00	268	384	167	81	79	350	378	325	338	345	175	296	183	180	
17.25	285	379	170	81	80	382	387	331	342	349	180	303	187	183	
17.50	268	345	176	82	80	406	398	342	347	352	184	308	190	186	
17.75	272	364	184	82	80	412	401	338	344	354	189	315	193	189	
18.00	270	338	177	82	81	393	401	338	350	359	193	317	196	192	
18.25	274	347	178	83	81	388	403	337	352	364	199	318	200	195	
18.50	271	333	182	83	82	390	403	332	348	366	203	318	203	198	
18.75	286	325	184	84	82	429	418	344	359	374	208	325	206	201	
19.00	292	344	180	84	83	515	438	371	373	382	213	330	209	204	
19.25	294	334	180	84	83	544	447	383	379	386	217	331	213	208	
19.50	308	329	181	85	84	584	459	392	387	391	221	335	216	211	
19.75	303	317	186	85	84	617	473	406	403	397	225	277	219	214	
20.00	295	325	180	86	85	639	484	417	407	402	229	254	222	217	
20.25	302	354	181	86	85	639	497	428	415	409	233	243	226	221	
20.50	294	353	185	87	86	639	508	438	427	418	237	249	229	224	
20.75	316	373	184	87	86	647	517	445	436	427	241	254	232	228	
21.00	299	362	190	88	87	648	525	453	479	434	244	356	235	231	
21.25	307	341	191	89	87	681	538	469	495	449	249	312	239	235	
21.50	287	441	191	91	87	751	548	487	512	462	255	379	242	239	
21.75	285	420	204	92	88	1146	564	512	523	469	261	384	246	243	
22.00	290	374	197	93	88	1020	629	552	540	508	264	390	250	247	
22.25	287	374	194	94	89	1126	674	605	550	514	268	299	254	251	
22.50	290	426	196	95	89	1007	695	623	561	525	272	284	258	255	
22.75	282	411	199	96	90	996	721	633	580	541	278	336	263	260	
23.00	254	423	196	97	90	1001	759	638	594	569	283	323	267	265	
23.25	255	417	193	98	91	1010	822	665	657	615	290	430	272	270	
23.50	255	449	198	99	91	997	893	760	706	634	296	324	277	274	
23.75	301	466	198	101	92	1008	960	856	754	639	304	487	281	280	
24.00	317	453	199	103	93	1036	979	1081	791	621	312	506	285	285	
24.25	313	503	198	104	93	1292	1030	1120	832	636	322	531	289	292	
24.50	319	482	194	105	93	1377	1044	1002	1033	731	332	462	293	298	
24.75	345	435	191	107	94	1455	1081	976	1138	801	343	457	297	305	
25.00	325	476	199	108	94	1384	1105	1187	1061	907	354	440	301	312	
25.25	327	496	208	109	95	1227	1152	1213	1072	1061	368	437	306	320	



Total Quality. Assured.

16015 Shady Falls Road  
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**TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS**

Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	TC #20 (°F)	TC #21 (°F)	TC #22 (°F)	TC #23 (°F)	TC #24 (°F)	TC #25 (°F)	TC #26 (°F)	TC #27 (°F)	Pass/ Fail
	TC #15 (°F)	TC #16 (°F)	TC #17 (°F)	TC #18 (°F)	TC #19 (°F)									TC #28 (°F)
25.50	339	421	209	111	96	1209	1190	1280	1085	1158	384	405	311	327
25.75	341	476	217	112	97	1416	1206	1211	1120	1383	408	370	316	335
26.00	352	435	194	113	97	1313	1208	1293	1128	1301	433	368	320	343
26.25	347	502	196	115	98	1322	1205	1195	1141	1348	467	384	325	353
26.50	366	483	191	115	98	1307	1204	1160	1142	1376	497	399	330	361
26.75	387	432	191	116	99	1321	1205	1176	1143	1338	535	372	335	371
27.00	401	400	182	117	99	1340	1206	1180	1129	1360	568	338	341	379
27.25	376	356	179	118	100	1289	1207	1163	1160	1364	608	310	348	387
27.50	406	385	181	118	100	1304	1207	1194	1140	1393	643	284	354	393
27.75	362	409	180	118	101	1311	1210	1283	1196	1354	682	281	360	399
28.00	377	493	180	119	101	1295	1214	1309	1240	1274	713	295	366	405
28.25	366	447	190	121	102	1297	1216	1321	1420	1309	745	298	372	410
28.50	359	461	180	121	102	1289	1215	1412	1366	1371	772	314	377	415
28.75	349	503	179	122	102	1312	1212	1287	1290	1468	803	312	383	420
29.00	349	555	192	122	103	1313	1211	1339	1272	1462	830	306	388	423
29.25	374	528	185	123	103	1294	1210	1256	1149	1594	858	490	394	427
29.50	368	600	189	124	104	1288	1211	1267	1144	1617	880	470	399	432
29.75	390	518	189	124	104	1320	1223	1290	1167	1564	903	486	405	437
30.00	395	525	190	124	105	1304	1240	1242	1126	1525	923	901	410	442
<b>Max Temp</b>	406	600	217	124	105	1455	1240	1412	1420	1617	923	901	410	442
<b>Max Allowed</b>	1000	1000	1000	1000	1000									1000



Total Quality. Assured.

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### TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	TC #29 (°F)	TC #30 (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	TC #41 (°F)	TC #42 (°F)
0.00	64	65	66	65	65	66	66	65	65	65	65	65	65	95	122
0.25	64	65	66	65	65	66	66	65	65	65	65	65	65	596	702
0.50	64	65	66	65	65	66	66	65	65	65	65	65	65	952	1120
0.75	64	65	66	65	65	66	67	65	65	65	65	65	66	1115	1258
1.00	65	66	66	65	65	67	68	66	65	65	65	65	68	1175	1260
1.25	65	66	66	65	65	68	71	66	65	65	65	65	69	1259	1272
1.50	65	67	66	65	65	70	73	66	65	66	66	66	71	1304	1282
1.75	65	68	66	65	65	71	76	67	65	67	66	66	72	1386	1320
2.00	65	69	66	65	66	73	78	67	66	68	66	66	74	1375	1355
2.25	65	70	66	65	66	75	81	67	66	68	67	66	76	1407	1360
2.50	65	70	66	66	66	76	84	68	66	69	67	67	78	1406	1409
2.75	66	71	66	65	67	78	87	68	67	70	68	68	80	1417	1408
3.00	66	73	66	65	67	80	89	68	67	71	68	68	82	1466	1384
3.25	67	73	67	65	67	81	92	69	67	72	69	69	84	1504	1400
3.50	67	74	67	66	67	83	94	69	67	73	69	68	86	1495	1439
3.75	68	75	67	65	68	84	96	69	68	73	70	68	88	1514	1484
4.00	68	76	67	66	68	86	99	70	68	74	71	69	90	1510	1442
4.25	69	77	67	66	68	87	101	70	68	75	72	70	92	1519	1482
4.50	69	78	67	66	68	89	103	70	68	76	73	70	95	1546	1488
4.75	70	79	67	66	69	90	106	71	69	76	74	71	97	1551	1460
5.00	71	80	67	66	69	91	108	71	69	77	76	70	100	1575	1470
5.25	71	81	68	66	70	93	110	72	70	78	78	78	102	1595	1475
5.50	72	82	68	66	70	94	112	73	70	78	80	80	103	1584	1456
5.75	72	83	68	66	70	97	115	73	70	79	81	81	106	1582	1489
6.00	73	84	68	66	70	98	118	73	70	80	83	83	109	1610	1516
6.25	73	87	68	66	70	100	121	74	71	81	84	84	112	1603	1484
6.50	74	87	68	66	71	101	123	75	71	81	86	86	115	1598	1488
6.75	74	89	69	66	71	104	127	75	72	82	89	89	117	1607	1488
7.00	75	91	69	66	71	106	130	76	72	83	90	90	120	1596	1482
7.25	76	92	69	67	72	108	134	76	73	84	93	93	124	1626	1499
7.50	76	93	69	67	72	110	136	77	73	85	94	94	126	1627	1494
7.75	77	95	70	67	72	112	139	78	73	86	96	96	129	1602	1516
8.00	78	97	70	67	72	113	143	78	74	86	98	98	132	1623	1502
8.25	79	98	70	67	72	115	146	79	74	87	100	100	135	1619	1511
8.50	80	99	70	67	73	118	148	79	75	88	101	101	137	1608	1530
8.75	81	102	70	68	73	120	151	80	75	89	103	103	140	1633	1529
9.00	82	101	71	68	73	121	154	80	76	90	105	105	143	1631	1541
9.25	83	103	71	68	73	122	156	80	76	91	107	107	146	1662	1542
9.50	84	104	71	68	74	124	160	81	76	92	108	108	148	1627	1536
9.75	85	106	71	68	74	126	162	82	77	93	110	110	152	1638	1565
10.00	86	108	71	68	75	127	164	82	77	94	112	112	154	1621	1576
10.25	88	110	72	68	75	129	166	83	78	95	113	113	157	1636	1542
10.50	89	111	72	69	76	130	169	84	78	97	115	115	159	1665	1548
10.75	90	115	72	68	76	132	172	84	78	97	117	117	162	1635	1531
11.00	92	116	72	69	76	133	174	84	79	98	118	118	164	1646	1564
11.25	93	117	73	69	77	136	177	85	80	100	120	120	167	1664	1549
11.50	95	119	73	69	77	137	179	86	80	100	121	121	170	1654	1550
11.75	97	121	73	69	78	138	182	86	81	102	123	123	173	1659	1560
12.00	98	123	73	70	78	140	184	87	81	103	124	124	176	1662	1550
12.25	100	126	73	70	79	141	186	88	81	104	126	126	178	1642	1598
12.50	102	128	74	70	79	142	189	88	82	105	128	128	179	1659	1583



Total Quality. Assured.

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Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	TC #29 (°F)	TC #30 (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	Pass/Fail (°F)	TC #41 (°F)	TC #42 (°F)
12.75	103	128	74	70	80	142	191	89	83	106	129	181	1663	1589	
13.00	105	129	74	70	80	145	193	89	83	107	130	184	1668	1601	
13.25	107	132	74	70	80	146	195	90	84	108	132	186	1649	1589	
13.50	109	133	75	70	81	147	197	91	84	109	133	188	1661	1580	
13.75	111	135	75	71	82	148	199	92	85	110	135	191	1684	1589	
14.00	113	135	75	71	82	150	201	92	85	111	137	195	1673	1589	
14.25	115	140	75	71	83	150	203	93	86	112	137	197	1681	1619	
14.50	117	140	76	71	84	152	205	94	86	113	139	200	1655	1588	
14.75	119	143	76	72	84	153	207	94	87	114	140	202	1655	1600	
15.00	121	145	76	72	85	153	209	95	87	115	141	205	1649	1607	
15.25	123	148	76	72	86	154	210	95	88	117	142	205	1733	1655	
15.50	125	150	77	72	86	155	212	96	89	118	143	209	1760	1669	
15.75	127	152	77	73	87	156	214	96	89	119	144	211	1756	1688	
16.00	130	153	77	73	88	158	217	97	90	120	145	214	1758	1663	
16.25	132	156	78	73	89	159	219	97	90	121	146	217	1767	1657	
16.50	135	159	78	73	89	160	220	98	91	121	147	217	1778	1675	
16.75	137	161	78	74	90	160	222	98	92	122	149	222	1748	1696	
17.00	139	163	78	74	91	161	224	98	92	123	149	225	1755	1714	
17.25	142	167	79	74	91	163	226	99	93	124	151	228	1758	1712	
17.50	145	171	79	74	92	164	227	100	93	125	152	229	1769	1702	
17.75	148	177	79	75	93	165	229	101	94	126	154	235	1762	1725	
18.00	150	178	79	75	93	165	230	101	94	127	155	235	1750	1759	
18.25	153	181	80	75	94	167	233	102	95	128	156	237	1736	1738	
18.50	155	184	80	76	94	167	233	103	96	129	157	238	1756	1741	
18.75	158	187	80	76	95	168	235	104	97	130	159	241	1778	1737	
19.00	161	187	81	76	96	170	240	104	97	131	161	246	1821	1709	
19.25	164	189	81	76	96	171	242	105	98	133	163	254	1791	1705	
19.50	166	191	81	77	97	172	244	106	98	134	165	255	1766	1680	
19.75	170	193	82	77	98	173	249	107	99	135	166	257	1799	1705	
20.00	172	196	82	77	99	175	251	108	100	137	168	261	1786	1736	
20.25	176	199	82	78	99	176	254	109	101	138	169	262	1773	1736	
20.50	179	201	82	78	100	177	260	110	102	140	171	265	1768	1743	
20.75	182	205	83	78	101	178	263	111	102	142	172	266	1768	1761	
21.00	185	207	83	79	101	182	270	112	103	143	174	268	1773	1760	
21.25	188	208	84	79	102	185	281	115	104	146	179	281	1803	1739	
21.50	192	212	84	79	103	189	292	116	105	148	185	292	1772	1761	
21.75	196	219	84	80	104	190	290	117	106	150	188	299	1784	1791	
22.00	200	223	85	80	105	194	304	119	106	153	196	320	1775	1808	
22.25	204	233	85	80	106	198	311	121	108	158	206	346	1788	1783	
22.50	208	237	86	81	107	204	320	122	109	162	214	363	1777	1778	
22.75	213	246	86	81	108	211	336	124	110	166	222	377	1757	1787	
23.00	217	249	86	81	109	217	340	125	111	170	230	385	1758	1806	
23.25	222	252	87	82	110	220	343	127	113	177	239	406	1801	1792	
23.50	226	257	87	83	112	224	347	129	115	184	248	420	1807	1787	
23.75	231	254	88	83	113	231	352	135	118	195	257	432	1736	1777	
24.00	235	252	88	83	114	233	355	135	121	206	274	455	1750	1806	
24.25	239	251	88	84	115	234	359	137	124	221	287	476	1755	1787	
24.50	243	253	89	84	117	239	369	138	128	236	303	486	1754	1800	
24.75	248	260	89	85	118	246	380	138	131	246	317	493	1754	1794	
25.00	251	266	90	86	119	255	397	139	132	254	328	493	1753	1822	
25.25	256	269	90	86	121	267	410	143	134	265	336	508	1760	1876	





Total Quality. Assured.

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**TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS**

Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	TC #29 (°F)	TC #30 (°F)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	TC #41 (°F)	TC #42 (°F)
			TC #31 (°F)	TC #32 (°F)	TC #33 (°F)	TC #34 (°F)	TC #35 (°F)	TC #36 (°F)	TC #37 (°F)	TC #38 (°F)	TC #39 (°F)	TC #40 (°F)				
25.50	260	273	91	87	123	273	422	147	136	276	338	526	1776	1818		
25.75	265	285	91	88	125	287	439	170	141	290	344	555	1778	1838		
26.00	269	290	92	88	127	294	453	186	149	306	354	578	1830	1784		
26.25	277	295	92	89	130	300	461	179	153	308	365	579	1840	1753		
26.50	283	294	93	90	132	305	463	169	154	306	370	582	1885	1732		
26.75	290	298	94	91	136	308	463	158	154	307	389	574	1917	1757		
27.00	295	303	94	91	139	308	467	153	153	308	397	567	1906	1748		
27.25	302	307	95	92	143	306	473	152	152	308	395	580	1894	1730		
27.50	307	308	96	93	147	306	478	153	151	311	395	571	1905	1721		
27.75	314	312	96	94	152	312	483	155	151	318	390	585	1905	1736		
28.00	319	314	97	95	156	322	493	157	152	329	386	577	1821	1693		
28.25	325	318	98	96	161	325	514	162	153	339	387	578	1816	1693		
28.50	330	321	100	97	167	330	521	159	154	340	385	576	1854	1685		
28.75	336	325	101	98	173	344	544	163	155	350	385	587	1841	1707		
29.00	342	339	102	99	179	351	539	172	157	360	388	597	1808	1816		
29.25	350	341	103	101	186	356	551	175	161	372	395	611	1802	1840		
29.50	357	342	104	101	192	370	562	173	164	375	396	611	1815	1832		
29.75	363	341	105	102	199	375	567	168	165	375	398	608	1786	1823		
30.00	368	341	107	104	206	378	588	167	166	377	397	607	1776	1812		
<b>Max Temp</b>	368	342	107	104	206	378	588	166	166	377	398	611	1917	1876		
<b>Max Allowed</b>			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000				



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Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	TC #43 (°F)	TC #44 (°F)	TC #45 (°F)	TC #46 (°F)	TC #47 (°F)	TC #48 (°F)	TC #49 (°F)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail
								TC #50 (°F)	TC #51 (°F)	TC #52 (°F)	TC #53 (°F)	TC #54 (°F)	
0.00	102	111	113	98	114	116	64	64	65	65	65	65	65
0.25	562	396	481	448	534	473	64	64	65	65	65	65	65
0.50	830	705	779	761	891	818	64	64	65	65	65	65	65
0.75	969	896	946	977	1052	991	64	64	65	65	65	65	65
1.00	1032	969	1006	1059	1108	1042	64	64	65	65	65	65	65
1.25	1097	1014	1046	1121	1165	1099	64	64	65	65	65	65	65
1.50	1139	1051	1070	1184	1209	1167	64	64	65	65	65	65	65
1.75	1176	1078	1100	1218	1218	1187	64	64	65	65	65	65	65
2.00	1193	1108	1114	1233	1233	1201	64	64	65	65	65	65	65
2.25	1219	1129	1125	1251	1254	1221	64	65	65	65	65	65	65
2.50	1225	1139	1131	1259	1281	1239	65	65	65	65	65	65	65
2.75	1263	1161	1148	1276	1300	1257	64	65	65	65	65	65	65
3.00	1286	1174	1162	1288	1303	1264	64	65	65	65	66	65	65
3.25	1298	1181	1171	1314	1325	1292	64	65	65	65	65	65	65
3.50	1301	1199	1178	1333	1336	1312	64	64	65	65	65	65	65
3.75	1342	1230	1202	1344	1342	1314	64	65	65	65	66	65	65
4.00	1348	1250	1211	1415	1393	1380	65	65	65	65	66	65	65
4.25	1340	1258	1211	1399	1416	1370	65	65	65	65	66	65	65
4.50	1355	1243	1221	1386	1415	1374	65	65	66	65	66	65	65
4.75	1379	1247	1235	1382	1409	1368	64	65	65	65	66	65	65
5.00	1373	1251	1242	1381	1405	1373	65	65	65	65	66	65	65
5.25	1385	1266	1245	1384	1403	1379	65	65	66	65	65	65	65
5.50	1383	1271	1243	1403	1433	1389	65	65	66	65	66	65	65
5.75	1383	1271	1253	1403	1426	1399	65	65	66	66	67	65	65
6.00	1393	1271	1262	1409	1426	1404	65	65	65	65	67	65	65
6.25	1398	1282	1263	1412	1444	1400	65	65	66	66	67	65	65
6.50	1385	1292	1267	1419	1440	1406	65	65	65	66	67	65	65
6.75	1398	1294	1269	1423	1431	1405	65	65	66	66	67	65	65
7.00	1398	1294	1272	1435	1445	1410	65	65	66	66	66	66	66
7.25	1424	1296	1290	1427	1437	1410	65	65	66	66	67	65	65
7.50	1416	1303	1288	1428	1434	1411	65	65	66	66	67	66	66
7.75	1425	1310	1292	1435	1458	1421	65	65	66	66	67	66	66
8.00	1420	1308	1298	1442	1478	1428	65	65	66	66	67	66	66
8.25	1434	1307	1313	1444	1480	1434	65	65	66	66	67	66	66
8.50	1442	1313	1313	1436	1461	1435	65	65	66	66	67	66	66
8.75	1438	1321	1314	1452	1486	1449	65	65	67	67	67	66	66
9.00	1436	1321	1319	1449	1477	1444	65	65	66	67	67	66	66
9.25	1446	1330	1317	1459	1473	1448	65	65	66	67	66	66	66
9.50	1454	1326	1328	1455	1479	1454	65	66	66	67	68	67	67
9.75	1456	1329	1336	1458	1483	1460	65	65	67	67	68	67	67
10.00	1445	1334	1336	1462	1492	1465	65	65	67	67	68	67	67
10.25	1457	1344	1331	1469	1495	1465	65	65	67	67	68	67	67
10.50	1448	1351	1327	1474	1489	1471	65	65	67	68	69	67	67
10.75	1465	1349	1339	1478	1504	1475	66	65	67	68	68	67	67
11.00	1469	1350	1346	1476	1499	1476	66	66	67	68	68	68	68
11.25	1473	1355	1346	1482	1501	1479	66	66	67	68	68	67	67
11.50	1475	1359	1349	1487	1525	1478	66	66	67	68	68	67	67
11.75	1488	1363	1357	1485	1515	1492	66	66	67	68	69	68	68
12.00	1482	1362	1360	1490	1512	1484	66	66	67	68	68	67	67
12.25	1489	1362	1368	1485	1518	1495	66	67	67	68	68	67	67
12.50	1494	1368	1365	1485	1520	1495	66	67	67	68	68	67	67



Total Quality. Assured.

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Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	TC #43 (°F)	TC #44 (°F)	TC #45 (°F)	TC #46 (°F)	TC #47 (°F)	TC #48 (°F)	TC #49 (°F)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail
								TC #50 (°F)	TC #51 (°F)	TC #52 (°F)	TC #53 (°F)	TC #54 (°F)	
12.75	1486	1370	1370	1488	1524	1495	66	68	67	68	69	68	
13.00	1490	1374	1373	1503	1530	1507	66	68	67	68	69	68	
13.25	1493	1376	1374	1502	1541	1514	66	67	67	68	69	69	
13.50	1506	1375	1382	1507	1545	1500	66	67	68	69	69	68	
13.75	1494	1381	1379	1506	1543	1518	67	67	67	69	69	68	
14.00	1500	1384	1383	1508	1544	1521	67	67	67	69	69	68	
14.25	1497	1384	1381	1505	1552	1526	67	67	68	69	69	69	
14.50	1512	1381	1386	1501	1547	1514	67	67	68	70	69	69	
14.75	1511	1386	1390	1504	1545	1517	67	69	68	70	70	69	
15.00	1506	1383	1399	1496	1561	1517	67	70	68	70	70	69	
15.25	1548	1410	1420	1562	1607	1577	67	69	68	70	71	69	
15.50	1566	1432	1436	1590	1623	1599	67	68	69	70	71	70	
15.75	1575	1446	1440	1603	1657	1618	67	68	68	70	70	70	
16.00	1585	1449	1448	1619	1675	1612	67	68	68	70	70	69	
16.25	1586	1466	1451	1629	1695	1633	67	68	68	70	71	70	
16.50	1597	1470	1462	1633	1686	1632	68	70	69	71	71	70	
16.75	1601	1469	1470	1623	1705	1644	68	69	70	71	72	71	
17.00	1610	1475	1482	1633	1705	1656	67	68	69	71	72	70	
17.25	1607	1477	1485	1638	1731	1660	68	68	70	70	71	70	
17.50	1616	1477	1491	1641	1727	1665	68	68	69	71	72	71	
17.75	1624	1474	1498	1643	1729	1680	69	70	70	71	72	71	
18.00	1618	1478	1496	1641	1723	1681	67	70	70	71	72	71	
18.25	1622	1476	1503	1638	1720	1668	67	69	69	71	73	71	
18.50	1616	1478	1498	1643	1710	1665	67	69	70	71	72	71	
18.75	1618	1491	1498	1653	1720	1670	68	69	70	72	72	72	
19.00	1624	1504	1487	1662	1709	1691	68	71	69	72	73	72	
19.25	1631	1502	1495	1657	1717	1687	68	70	71	71	72	71	
19.50	1617	1501	1490	1642	1730	1704	68	71	70	72	72	72	
19.75	1614	1501	1491	1654	1725	1706	68	70	71	71	72	72	
20.00	1631	1497	1503	1646	1728	1688	68	70	71	72	72	72	
20.25	1623	1494	1501	1644	1700	1675	68	73	70	72	72	71	
20.50	1617	1496	1502	1646	1712	1669	68	72	70	72	73	72	
20.75	1628	1500	1509	1654	1735	1694	69	73	70	72	73	72	
21.00	1624	1502	1517	1655	1733	1692	69	73	70	72	73	72	
21.25	1632	1512	1507	1668	1733	1708	69	73	70	72	73	72	
21.50	1639	1509	1518	1664	1729	1715	69	74	70	73	73	72	
21.75	1649	1511	1529	1677	1741	1704	69	71	71	73	73	73	
22.00	1647	1510	1534	1659	1739	1710	69	72	70	73	73	73	
22.25	1641	1511	1530	1674	1747	1696	69	72	70	73	73	73	
22.50	1602	1522	1507	1762	1724	1698	69	75	70	73	74	73	
22.75	1618	1517	1507	1760	1703	1695	69	75	71	73	75	74	
23.00	1603	1511	1501	1750	1716	1695	69	76	71	73	75	73	
23.25	1627	1517	1517	1727	1743	1695	69	75	70	73	75	72	
23.50	1638	1529	1523	1718	1750	1717	69	77	71	73	76	73	
23.75	1652	1513	1540	1681	1757	1738	69	78	72	74	75	74	
24.00	1635	1516	1539	1685	1772	1735	70	73	71	74	76	74	
24.25	1608	1502	1519	1748	1800	1770	70	75	71	74	76	73	
24.50	1603	1505	1518	1734	1779	1748	69	76	71	73	76	74	
24.75	1592	1495	1512	1764	1777	1774	70	74	71	73	76	74	
25.00	1586	1490	1507	1799	1752	1748	70	75	71	74	76	74	
25.25	1612	1500	1530	1796	1823	1773	70	77	71	74	76	74	





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Report No.: G105260808SAT-001 R1

Date: 01/06/23

Arconic

Project No. G105260808SAT-001

December 29, 2023

Time (min)	TC #43 (°F)	TC #44 (°F)	TC #45 (°F)	TC #46 (°F)	TC #47 (°F)	TC #48 (°F)	TC #49 (°F)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail
								TC #50 (°F)	TC #51 (°F)	TC #52 (°F)	TC #53 (°F)	TC #54 (°F)	
25.50	1606	1499	1535	1767	1785	1773	70	76	71	74	76	73	
25.75	1622	1505	1540	1811	1812	1769	71	78	71	74	77	74	
26.00	1648	1532	1529	1817	1830	1825	70	78	71	75	76	74	
26.25	1643	1542	1525	1849	1868	1843	70	78	71	75	77	74	
26.50	1652	1549	1521	1859	1884	1833	70	76	71	75	76	74	
26.75	1680	1573	1530	1841	1853	1806	71	76	71	74	77	75	
27.00	1667	1559	1530	1831	1861	1803	71	76	71	75	77	75	
27.25	1685	1560	1533	1854	1889	1822	71	75	71	75	76	75	
27.50	1666	1569	1527	1859	1910	1828	71	74	71	75	76	75	
27.75	1668	1558	1526	1850	1904	1842	71	74	71	75	76	75	
28.00	1652	1556	1526	1884	1897	1814	71	74	71	75	76	74	
28.25	1654	1554	1524	1866	1894	1805	71	75	71	75	76	76	
28.50	1648	1563	1526	1847	1887	1802	71	77	72	75	76	76	
28.75	1660	1566	1527	1860	1890	1806	71	74	72	75	76	75	
29.00	1633	1557	1539	1812	1825	1824	72	75	72	76	76	76	
29.25	1624	1559	1544	1765	1779	1801	71	76	73	76	77	76	
29.50	1661	1551	1548	1766	1811	1840	72	75	73	76	77	77	
29.75	1650	1550	1547	1791	1831	1832	71	76	74	76	77	76	
30.00	1650	1540	1543	1759	1841	1830	72	76	75	76	77	76	
<b>Max Temp</b>	1685	1573	1548	1884	1910	1843	72	78	75	76	77	77	
<b>Max Allowed</b>							564	564	565	565	565	565	



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## TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

Report No.: G105260808SAT-001 R1

Date: 01/06/23

### SECTION 15

#### DRAWINGS

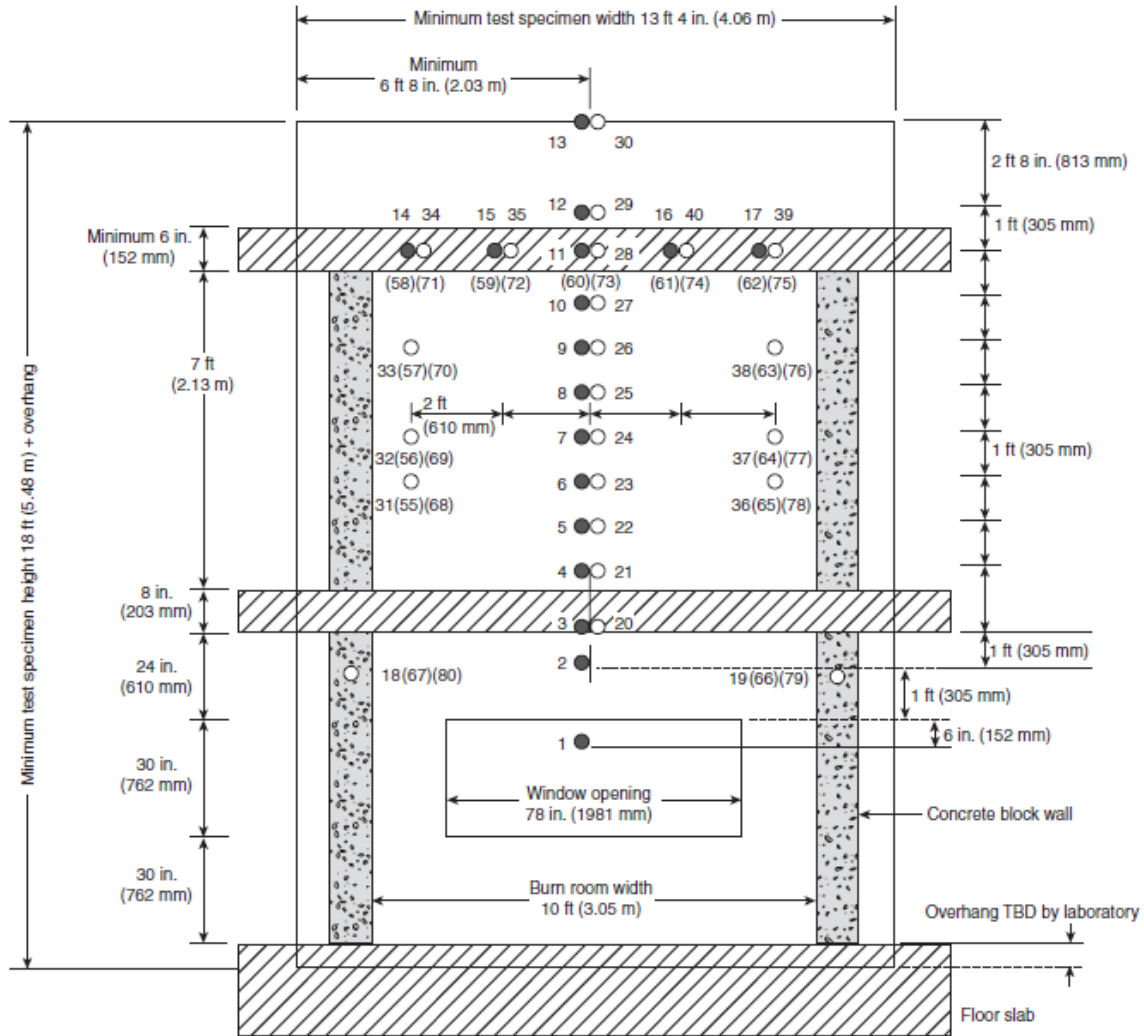
The "As-Built" drawings for the Arconic; Sheet Nos. 1-5 and dated 12/29/22; which follow have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

## TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

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### Standard TC Locations



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

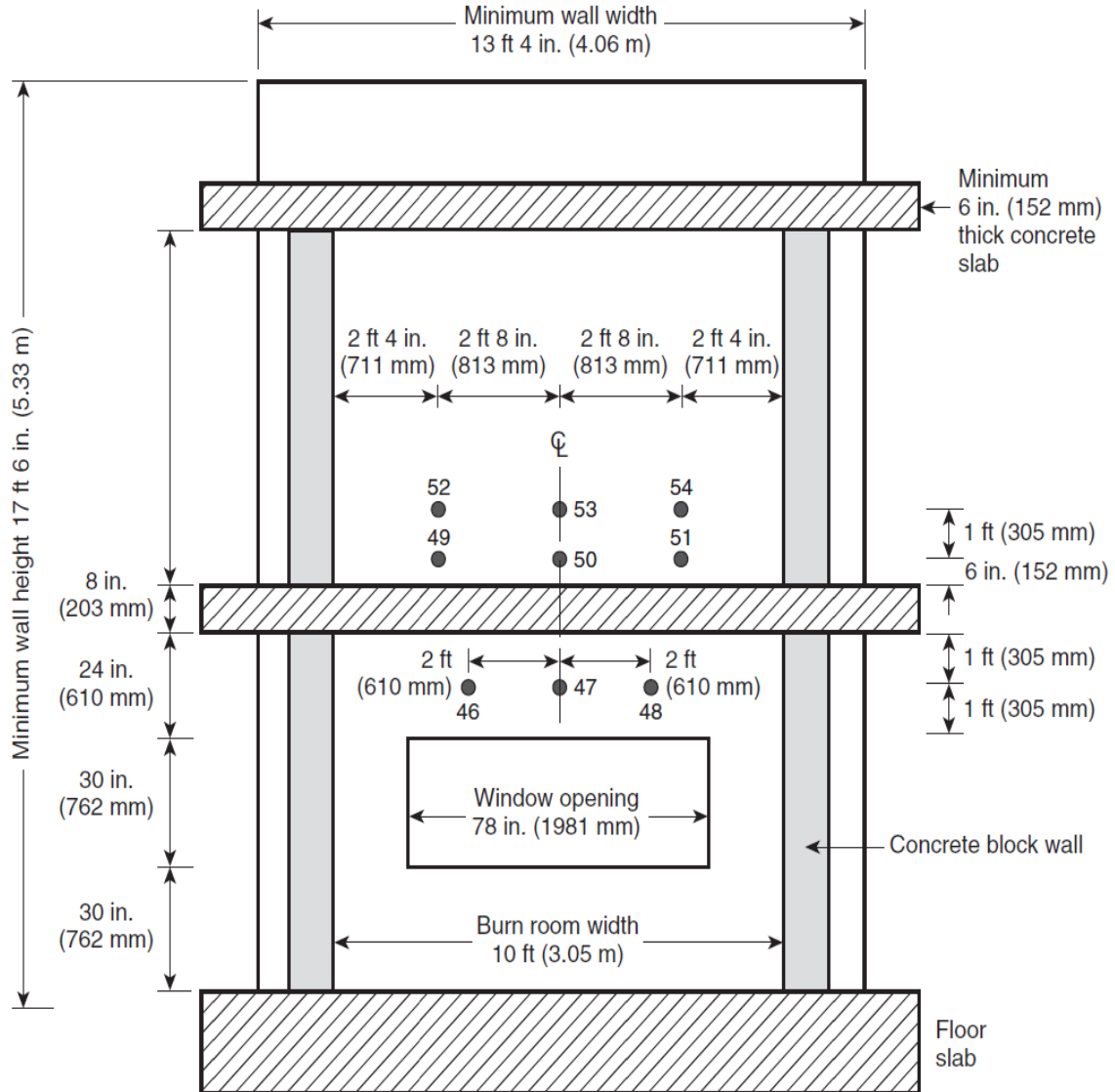
○ Thermocouples — In the wall cavity air space or the insulation, or both, as shown in Figure 6.1(b) Details A through I.

◐ 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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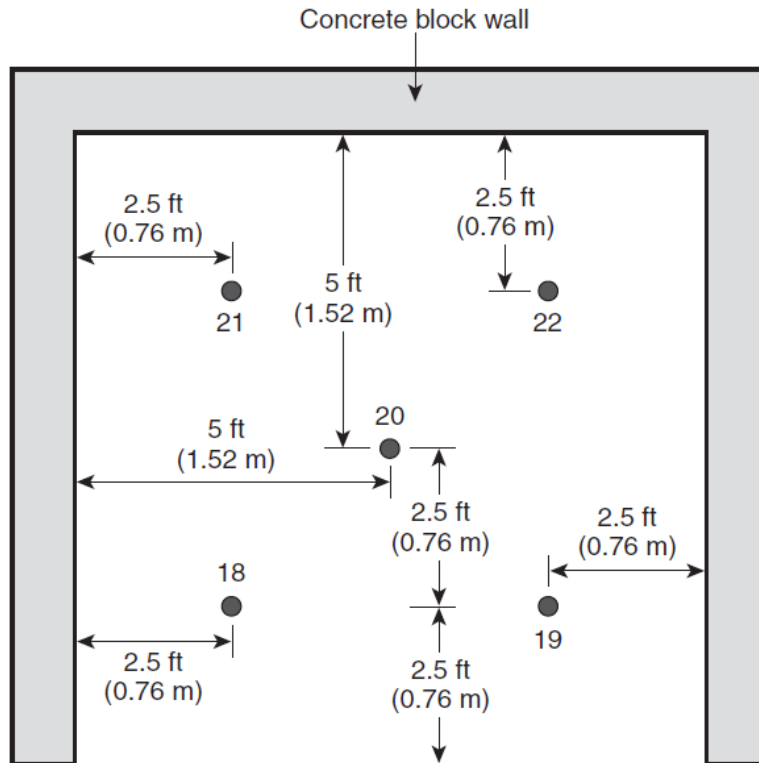


● Thermocouples — 1 in. (25 mm) from interior wall surface

## TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

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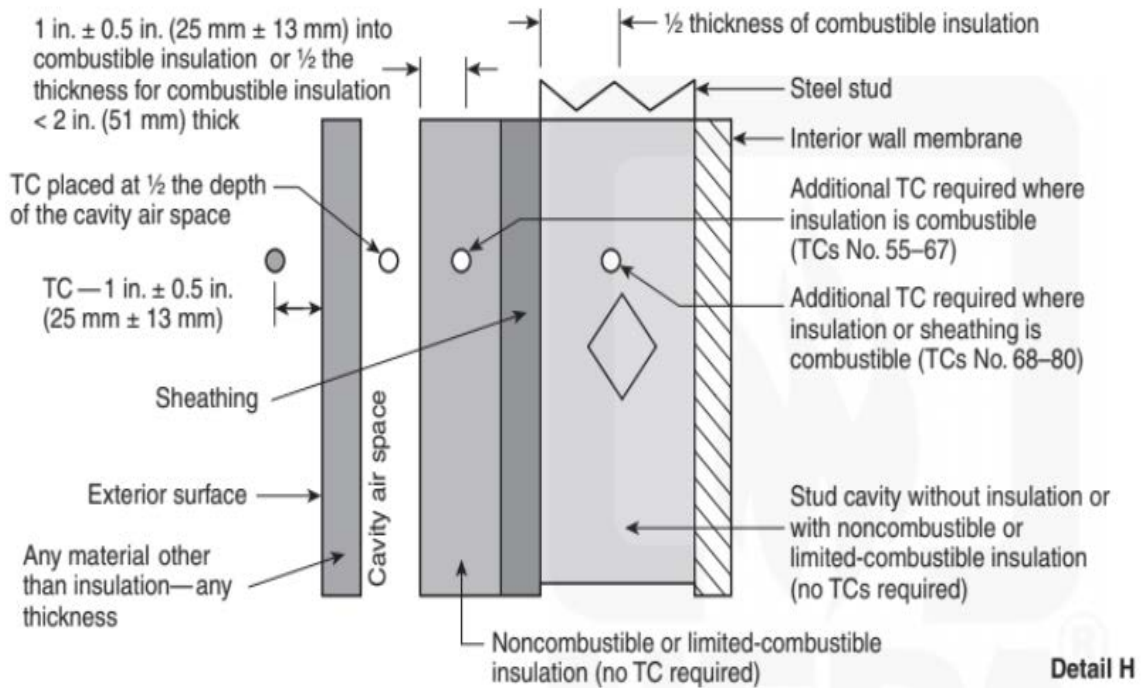


● Thermocouples (5) inside burn room 6 in. (152 mm) below ceiling

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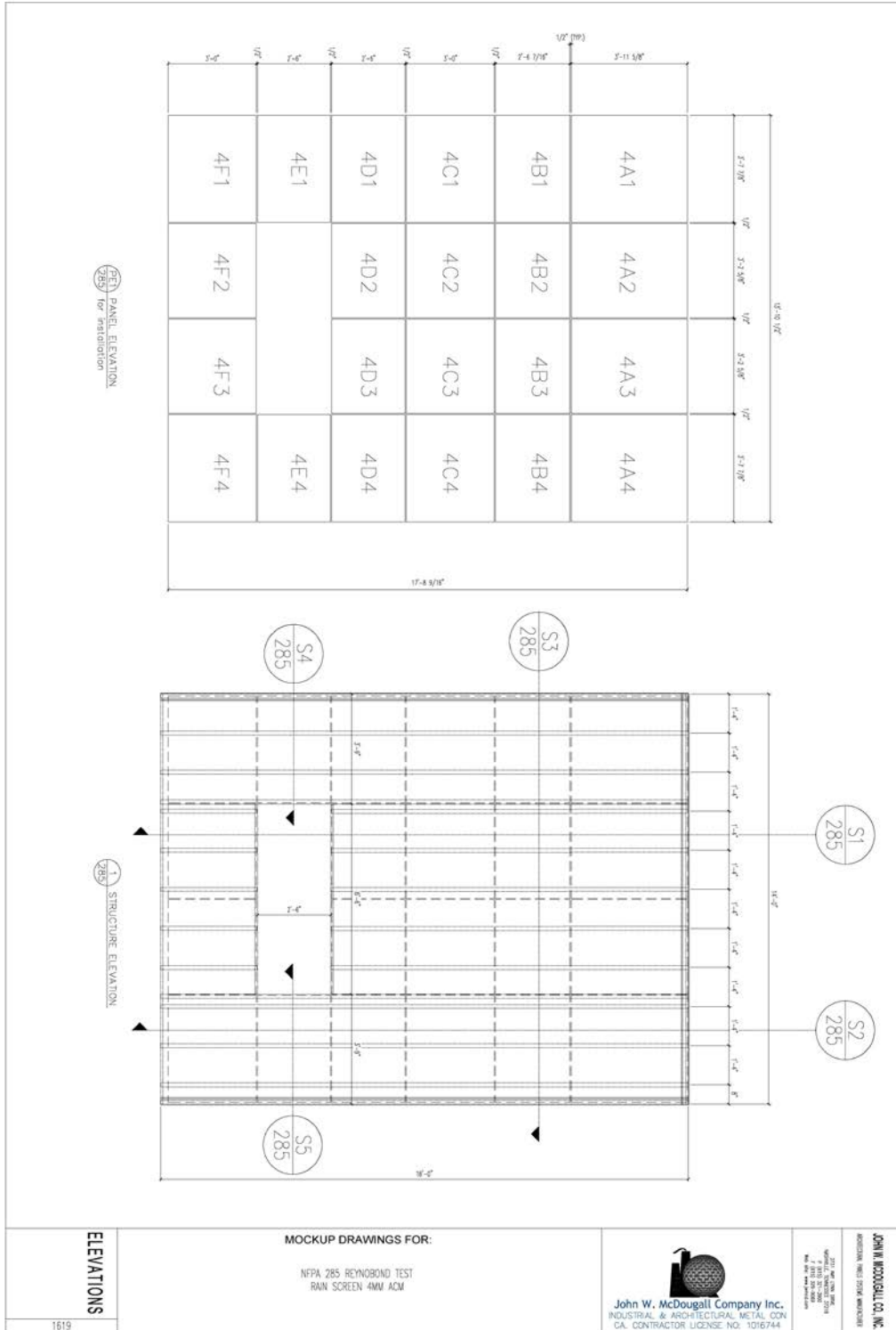




## TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

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Date: 01/06/23

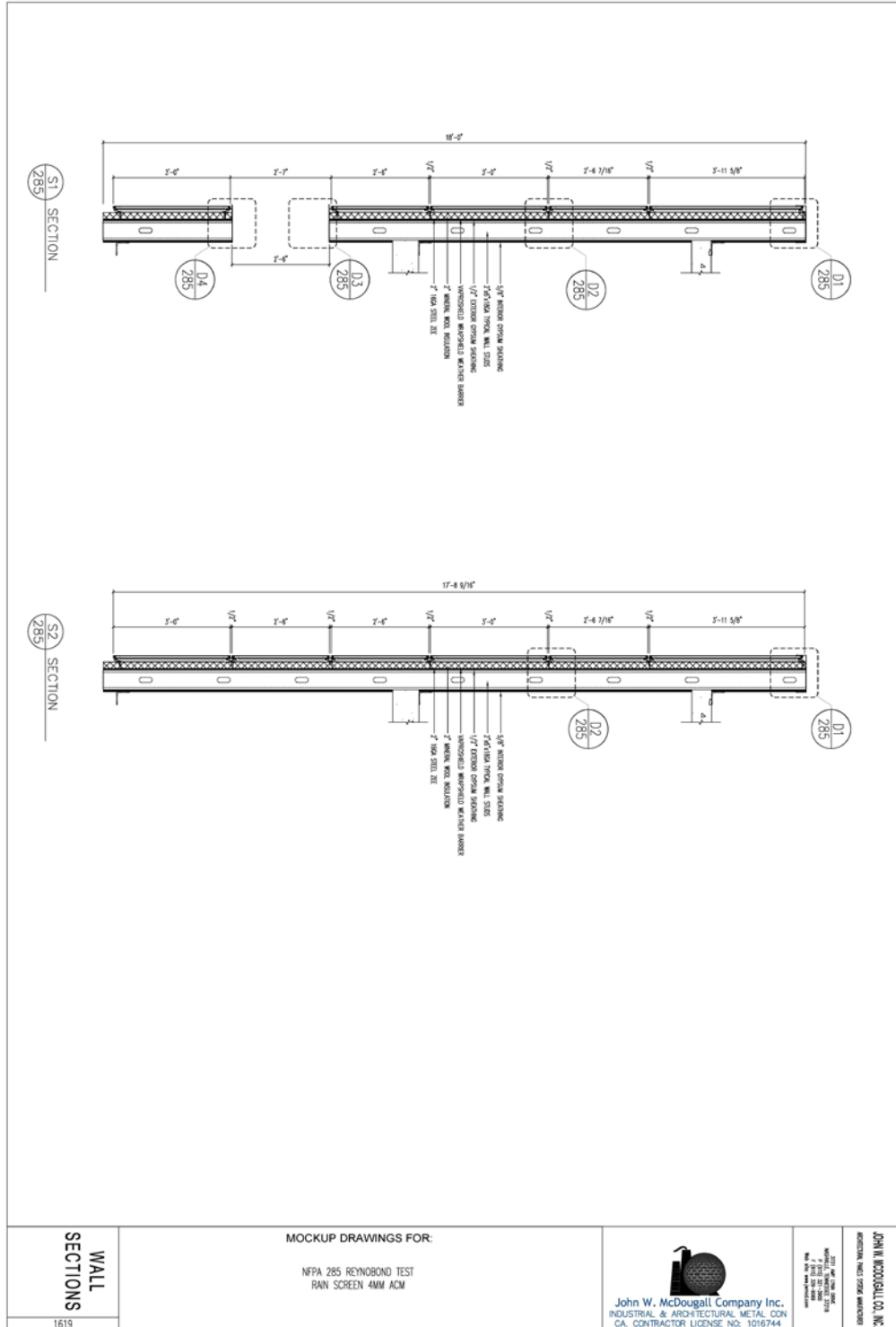




## TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

Report No.: G105260808SAT-001 R1

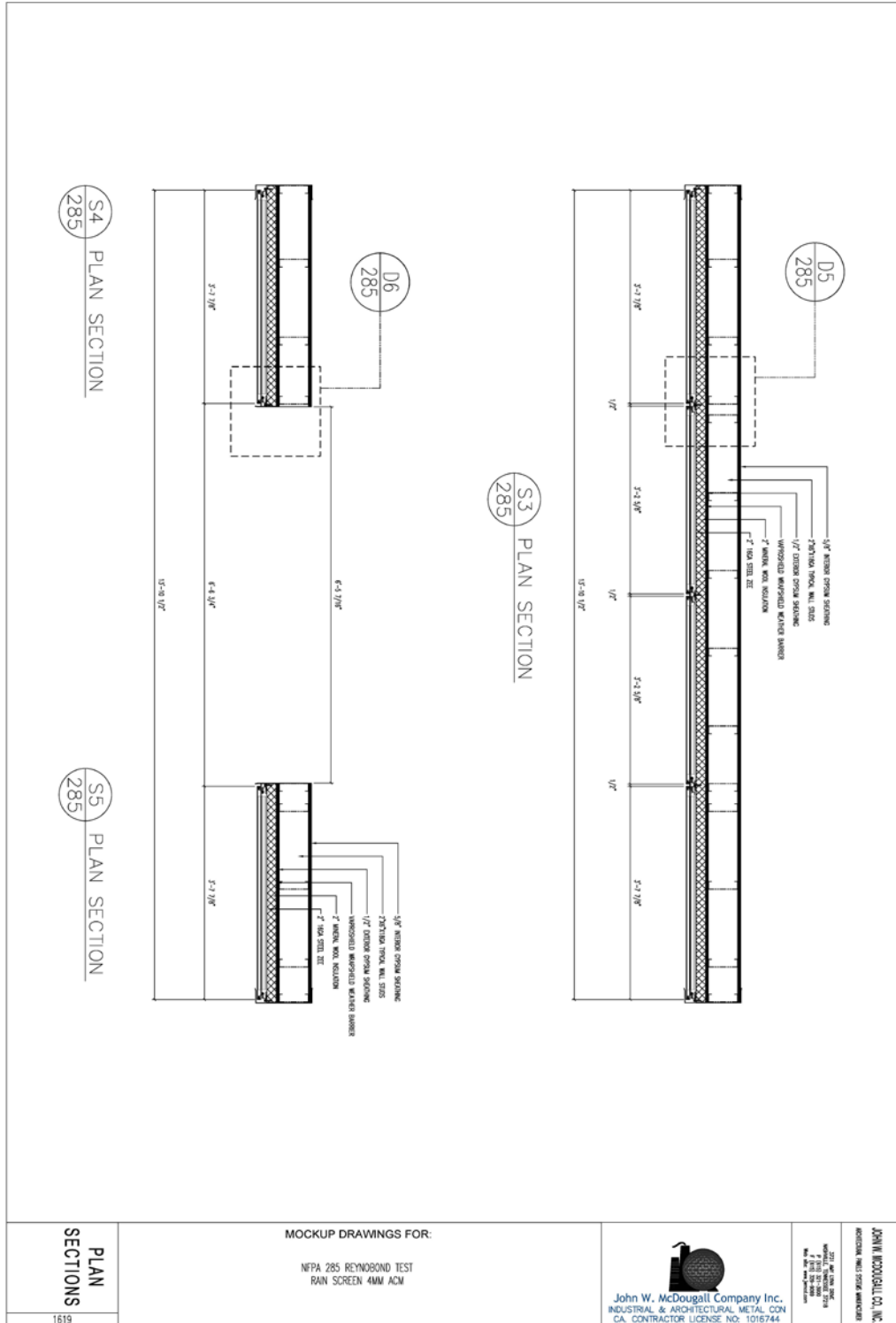
Date: 01/06/23



## TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

Report No.: G105260808SAT-001 R1

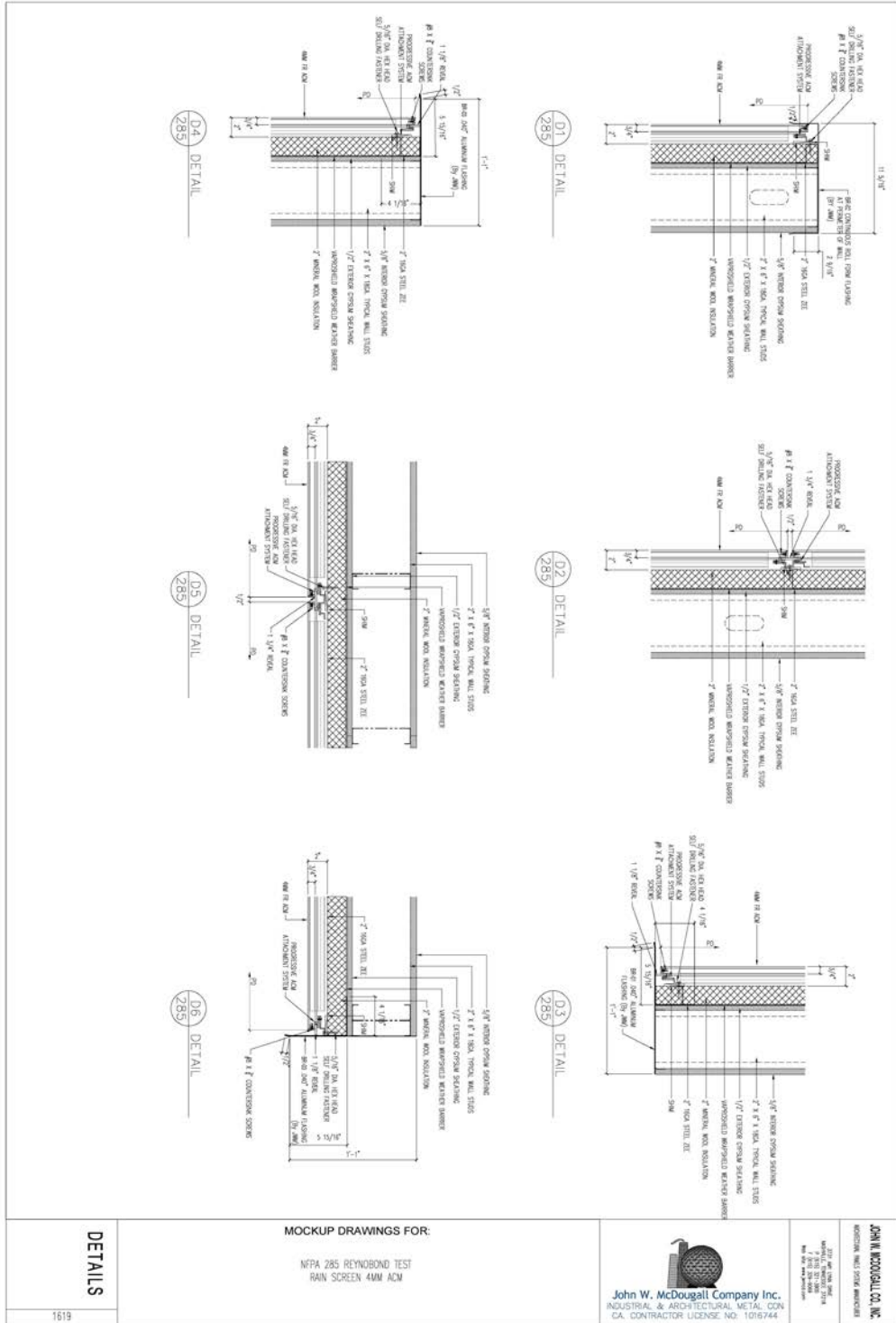
Date: 01/06/23



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## TEST REPORT FOR ARCONIC ARCHITECTURAL PRODUCTS

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### SECTION 16

#### REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	01/06/23	N/A	Original Report Issue
1	01/18/23	1, 8, 9	Corrected date of NFPA 285 standard, corrected Rockwool insulation density, corrected typo in test observations. E.O. 