

CARTER ARCHITECTURAL PANELS INC. TEST REPORT

SCOPE OF WORK

NFPA 285-2019, TESTING ON EXTERIOR NON-LOAD-BEARING WALL ASSEMBLY CONTAINING CARTER ARCHITECTURAL PANELS INC. EVO "RIVETLESS" PERIMETER ATTACHMENT SYSTEM AND 2MM EVOPLATE, COIL COATED SOLID ALUMINUM PLATE BY ARCHITECTURAL SYSTEMS GROUP LLC.

REPORT NUMBER

104488273SAT-004A R0

TEST DATE(S)

01/26/21

ISSUE DATE [REVISED DATE]

05/24/21 N/A

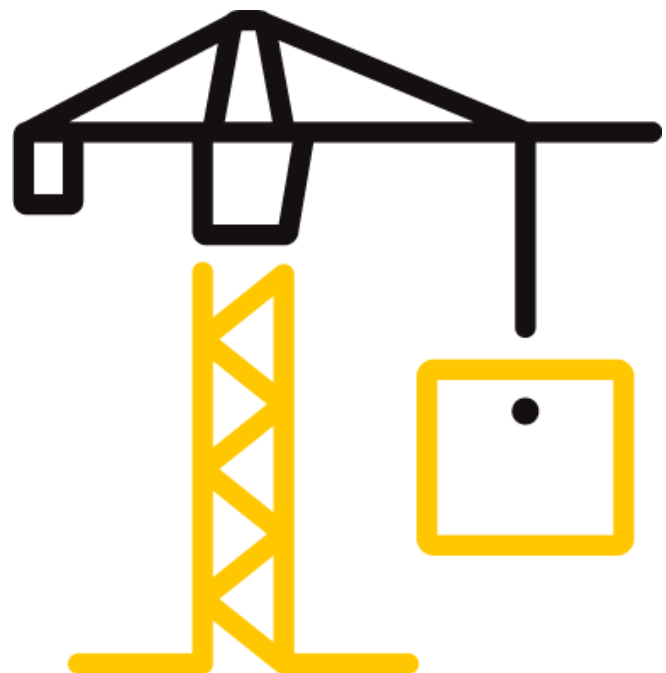
PAGES

61

DOCUMENT CONTROL NUMBER

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

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TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

Report No.: 104488273SAT-004A R0

Date: 05/24/21

REPORT ISSUED TO

CARTER ARCHITECTURAL PANELS INC.

221 E. Willis Road "A" Unit 18

Chandler, AZ 85286

SECTION 1

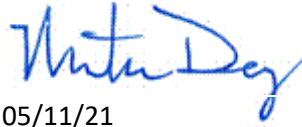
SCOPE

Intertek Testing Services NA, Inc. dba Intertek Building & Construction (B&C) was contracted by Firestone Building Products, LLC, 1245 Chapman Dr., Waukesha, WI 53186, to perform testing in accordance with NFPA 285, *Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components*, dated November 2018, on the Carter Architectural Panels Inc. EVO "RIVETLESS" PERIMETER ATTACHMENT SYSTEM AND 2MM EVOPLATE, COIL COATED SOLID ALUMINUM PLATE BY ARCHITECTURAL SYSTEMS GROUP LLC. 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, Texas.

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.

For INTERTEK B&C:

COMPLETED BY:	Emmanuel Ogoe	REVIEWED BY:	Mike Dey
TITLE:	Project Engineer – Fire Resistance	TITLE:	Senior Project Engineer
SIGNATURE:		SIGNATURE:	
DATE:	05/07/21	DATE:	05/11/21

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SECTION 2

SUMMARY OF TEST RESULTS

NFPA 285 Test Results

The Carter Architectural Panels Inc. EVO "RIVETLESS" PERIMETER ATTACHMENT SYSTEM AND 2MM EVOPLATE, COIL COATED SOLID ALUMINUM PLATE BY ARCHITECTURAL SYSTEMS GROUP LLC system described and tested in this report met the Conditions of Acceptance of **NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components, dated November 2018**. Construction of the full assembly is summarized in Section 8 of this test report.

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SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

NFPA 285-2019, STANDARD FIRE TEST METHOD FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS OF EXTERIOR WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS, dated November 2018.

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test samples were provided by the client. The results outlined in this report apply to the sample as received. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of four years from the test completion date.

The test samples were received by the test facility on 01/18/20

SECTION 5

EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
99LE006	Data Acquisition Unit	Yokogawa	04/02/21
170558057	Stopwatch	Fisherbrand	07/24/21
10361080	Thermo Hygrometer	Omega	07/23/21

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Mark Fortney	GACO
Chad Johnson	GACO
Brad Glazier	IFTI
Abel DeHoyos	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 285-2019 test method. 18 GA, Type K TCs were used in the burn room and 24 GA, Type K were used on the 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 01/26/2021 in accordance with NFPA 285-2019 test method. Ambient conditions were 71°F and 30% 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 initiated at 10:47 a.m. 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 ²)	3 FT FLUX (W/cm ²)	4 FT FLUX (W/cm ²)
0:00-5:00	16.2	0.0	1.3	0.9	1.3
5:00-10:00	16.2	5.9	2.5	1.9	1.8
10:00-15:00	16.2	6.7	2.9	2.2	2.2
15:00-20:00	17.2	7.6	3.8	2.8	3.1
20:00-25:00	17.1	8.5	4.5	3.2	3.4
25:00-30:00	17.7	8.6	4.7	3.6	3.4

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	1098	1082	556	711	660	610	500	489
5:00-10:00	1331	1332	924	971	927	886	749	734

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10:00-15:00	1388	1398	1002	1020	977	938	805	777
15:00-20:00	1519	1538	1125	1122	1078	1029	900	880
20:00-25:00	1559	1598	1218	1249	1159	1090	971	940
25:00-30:00	1618	1686	1271	1310	1241	1158	1056	1005

SECTION 8

TEST SPECIMEN DESCRIPTION

Framing

Studs used were 3-5/8 in. deep, 20 GA galvanized steel studs, nominal 24 in. oc, secured with #6x1 in. long, pan head framing screws to 20 GA top and bottom track. The framing layout included a stud in the centerline of the window. 4 pcf (64 kg/m³) nominal, 4 in. (102 mm) thick, Thermafiber Safing insulation installed to fully fill the stud cavities at floor line locations. Mineral wool safing installed at a 4 in. depth flush with the bottom surface of the floor line

Interior cladding

Interior cladding was composed of 4 ft x 8 ft x 5/8 in. thick, USG, TYPE X gypsum board installed with the long dimension perpendicular to the studs, fastened to the framing with #6 x 1-1/4 in. self-drilling zinc-plated Bugle head screws, spaced 8 in. oc around the perimeter and 12 in. oc in the field.

Exterior Sheathing

Exterior sheathing was composed of 4 ft x 8 ft x 5/8 in. thick, Densglass board installed with the long edge perpendicular to the studs; secured with #6 1-1/4 in. self-drill-zinc plated screws, spaced 8 in. at the joints and around the perimeter and 12 in. in the field.

System Framing

The mounting system framing consisted of 5 in. deep with 2" legs, 22 GA thick steel z-girts, oriented vertically, fastened to the exterior sheathing using 1-1/2 in. long self-tapping screws spaced 24 in. oc starting from the bottom of the wall. Steel U-channel of 5 in. deep with a 1-1/2 in. leg, 22 GA thick, was installed around the entire perimeter of the window opening, with one leg fastened through the exterior sheathing into the steel stud.

Wall Insulation

The Carter Architectural Panels Inc. wall used Gaco F1850 ccSPF installed at a nominal thickness of 4 in. on the exterior sheathing between z-girts. International Fireproof Technology Inc. DC315 intumescent coating, spray applied to the surface of the SPF at 18 wet mil thickness directly over the exterior insulation. Sherwin Williams Sher-Cryl HPA topcoat was then applied at nominal 11 mils WFT, directly over the dried DC315 intumescent coating.

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Exterior Panels

The exterior panels were Carter Architectural Panels Inc. EVO “Rivetless” perimeter attachment system and 2mm Evoplate, coil coated solid aluminum panels, measuring nominally 2mm thick, cladding edges bent to interlock together such that all edges and fasteners are concealed after installation.

Panel Joints

The exterior panels contained a nominal 5/8 in. vertical joint that extended upward the full height of the exterior face from the top of the window opening. The vertical joint was centered within the window opening, as permitted by NFPA 285, 2019 edition. The first horizontal joint above the window opening was located 30 in. above the top of the window opening, as permitted by NFPA 285, 2019 edition. All horizontal joints were nominally 5/8 in.

Window opening

Flashing was secured directly to the window track and C channel using self-drilling screws. Sill flashing overlapped onto exterior of wall about 3-15/16 in. (100 mm), including angled drip edge at the bottom. Sill flashing also overlapped onto window jambs underneath jamb flashing. Fastened to the sill at a maximum of 17 in. (432 mm) OC and 1/2 in. (12.7 mm) from the edge. Jamb flashing will overlap 3 in. onto exterior of wall and 2 in. onto header. Fastened to the jambs at a maximum of 10-13/16 in. (274 mm) OC and 1 in. from the edge. Header flashing protrudes out from exterior of wall about 7/8 in. with a drip edge. Fastened to header at maximum 14 in. OC and 1-1/2 in. OC from the edge.

Construction of the wall assembly started on 12/04/2021 and was completed on 01/22/2021.

SECTION 9

TEST OBSERVATIONS

FIRE-RESISTANCE TEST OBSERVATIONS	
Time (Min:Sec)	Exterior Observations
00:00	Test started at 10:47 A.M.
01:30	Flame tips exiting window opening
01:55	Smoking from top corners of wall
05:00	Window burner ignited
07:00	Flame tips at 2 ft above window header
12:00	Smoke continuing to exit top of wall
14:00	Flashing on window sill warped
16:00	Slight deflection on panels above window opening
20:00	Flame height at 6 ft above window opening, centerline
21:50	Smoke from top of wall increasing
22:20	Panels above opening flaking off
23:10	Panels above window opening up, flaming inside

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26:30	Increased flaming along centerline joint
30:04	Gas off, start of observation period
32:00	Residual flaming behind panels above window opening
40:00	Test terminated

FIRE-RESISTANCE TEST OBSERVATIONS	
Time (Min:Sec)	Second Floor Observations
00:00	Test started at 10:47 A.M.
05:00	Window burner on
06:00	Room visibility at 80%
10:00	Smoke decreasing, visibility at 90%
12:00	Smoke continues, room visibility at 95%
16:00	No change
17:15	Pop sound heard
21:00	Smoke increasing, room visibility at 85%
25:00	No change
28:00	Room visibility at 90%
30:04	Gas off, end of test

SECTION 10
TEST RESULTS

TEST REQUIREMENTS	TEST RESULTS	PASS/FAIL
Flames did not reach 10 ft. above the window opening header.	Flame spread 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 11 did not exceed its 1000°F limit	Pass
TC's 18-19, 28, and 39-40 (750°F above ambient)	TC's 18-19, 28, and 39-40 did not exceed 750°F above ambient temperature	Pass



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SECTION 11

CONCLUSION

The Carter Architectural Panels, Inc. EVO "RIVETLESS" perimeter attachment system and 2mm EVOPLATE, coil coated solid aluminum plate system **met** the conditions of acceptance outlined in **NFPA 285-19**, STANDARD FIRE TEST METHOD FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS OF EXTERIOR WALL ASSEMBLES CONTAINING COMBUSTIBLE COMPONENTS, dated November 2018.

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SECTION 12

PHOTOGRAPHS

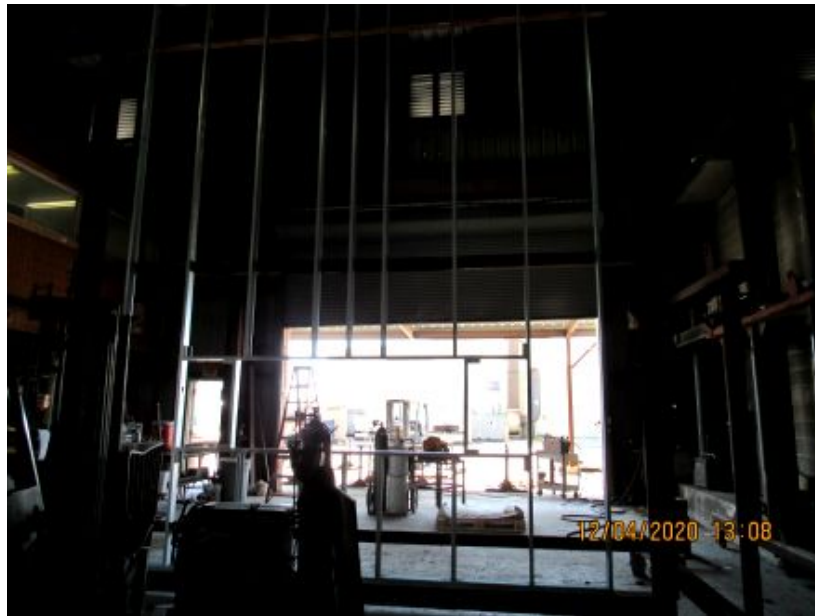


Photo No. 1
Stud wall



Photo No. 2
Exterior sheathing installed

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Photo No. 3
Z-girt depth

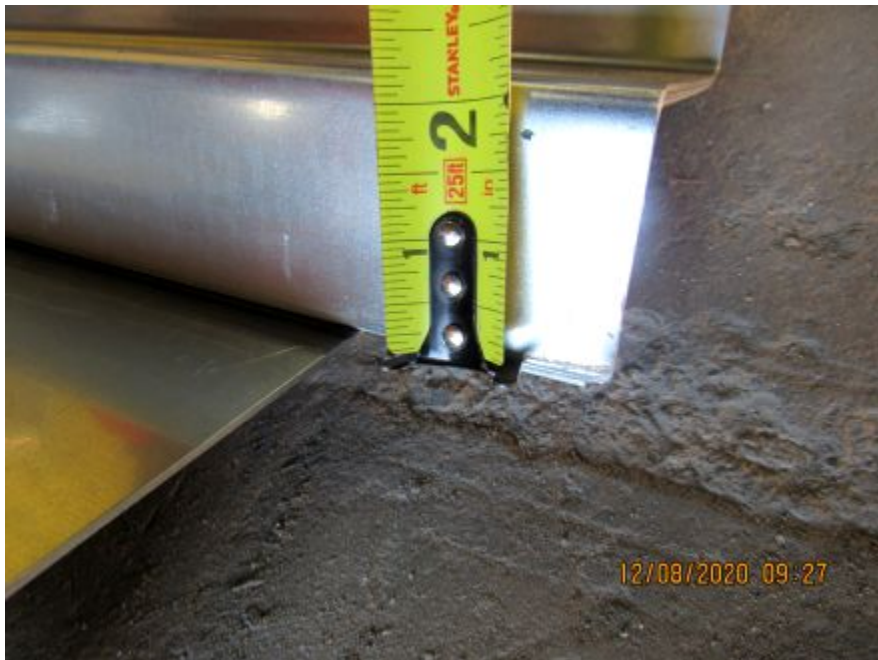


Photo No. 4
Z-girt leg

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Photo No. 5
J-channel depth

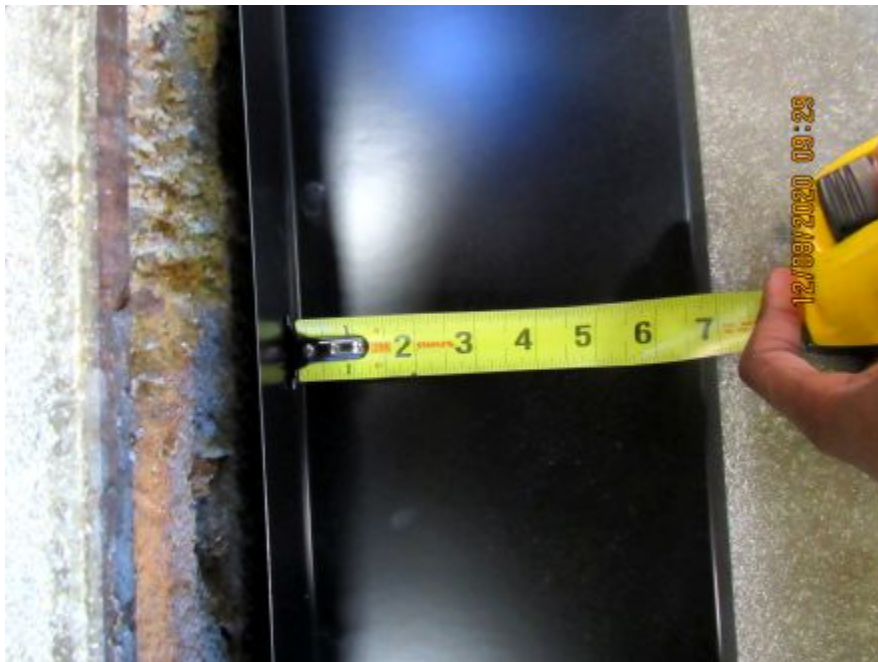


Photo No. 6
Bottom flashing depth

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Photo No. 7
Bottom flashing installed



Photo No. 8
Installation of Z-girts

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Photo No. 9
Vertical Z-girts installed



Photo No. 10
Z-girt spacing

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Photo No. 11
Wall pre-foam spray



Photo No. 12
F1850 spray foam

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Photo No. 13
Application of spray foam



Photo No. 14
Spray foam complete

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Photo No. 15
DC315 spray



Photo No. 16
Spraying DC315

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Photo No. 17
Spray complete



Photo No. 18
Wall assembly complete

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Photo No. 19
Wall interior



Photo No. 20
Pre-Test setup

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Photo No. 21
Window opening pre-test

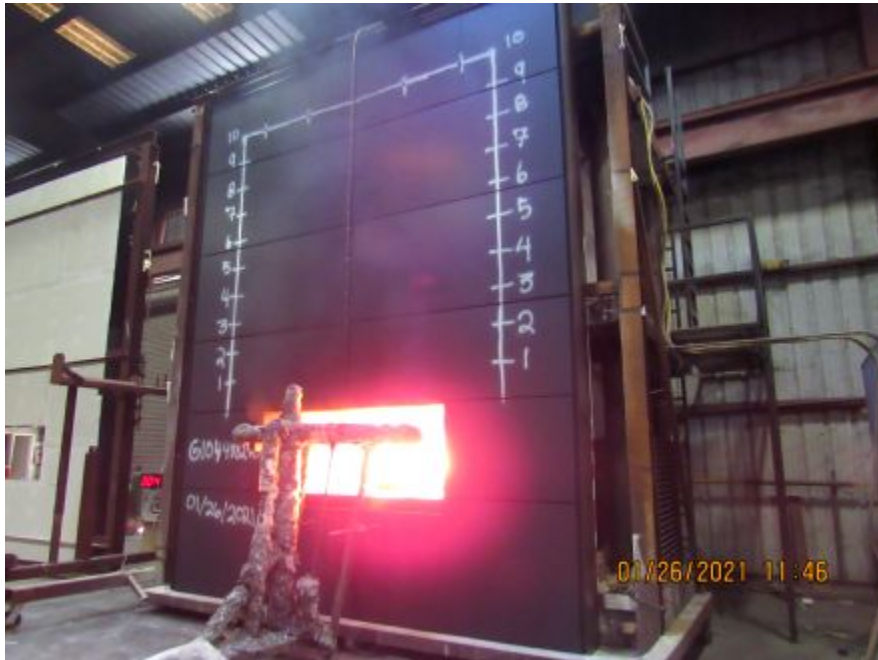


Photo No. 22
Start of test

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Photo No. 23
Smoking from top of wall



Photo No. 24
Window burner ignited

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Photo No. 25
Flame height at 2 ft above window



Photo No. 26
Flame tips increasing

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Photo No. 27
Window sill flashing warped



Photo No. 28
Panels opening up

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Photo No. 29
Second row panels opening up



Photo No. 30
End of test

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Photo No. 31
Residual flaming post-test



Photo No. 32
Post-test



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SECTION 13

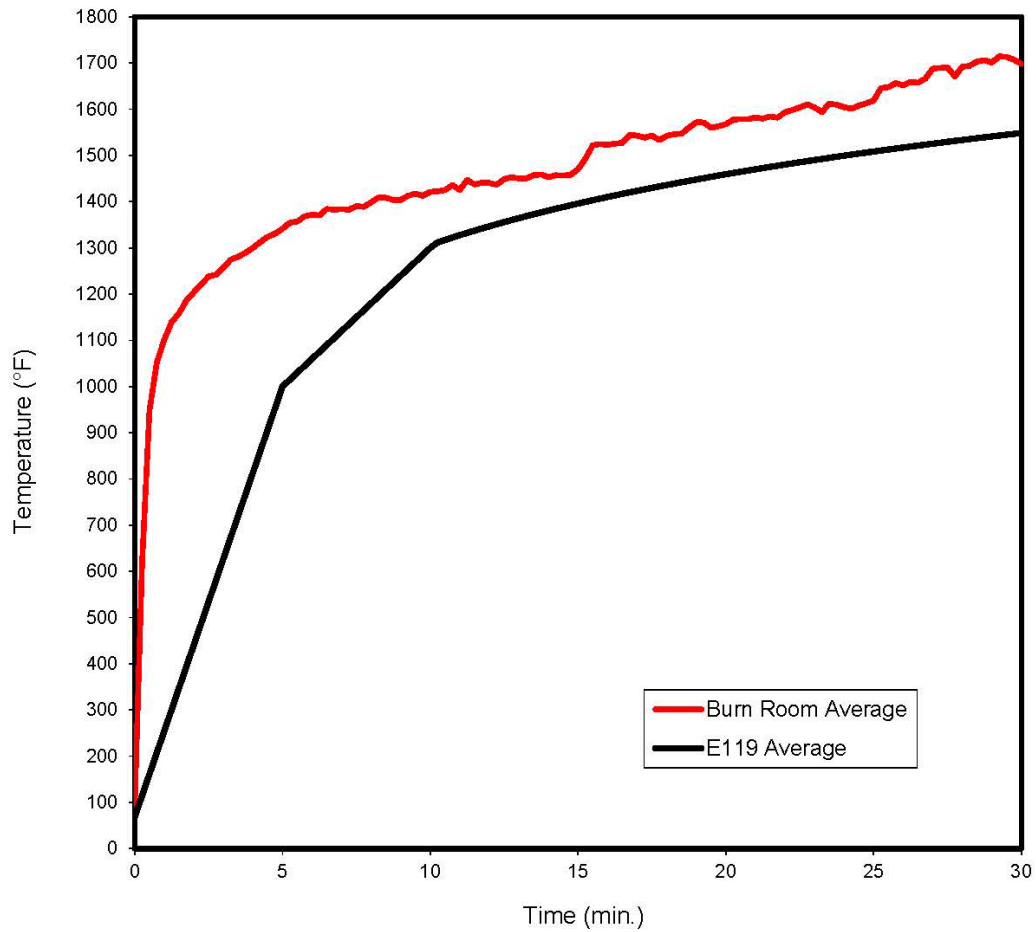
GRAPHS

TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

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Carter Architectural Panels Inc. Project No. G104488273SAT-004a January 26, 2021 Burn Room Average

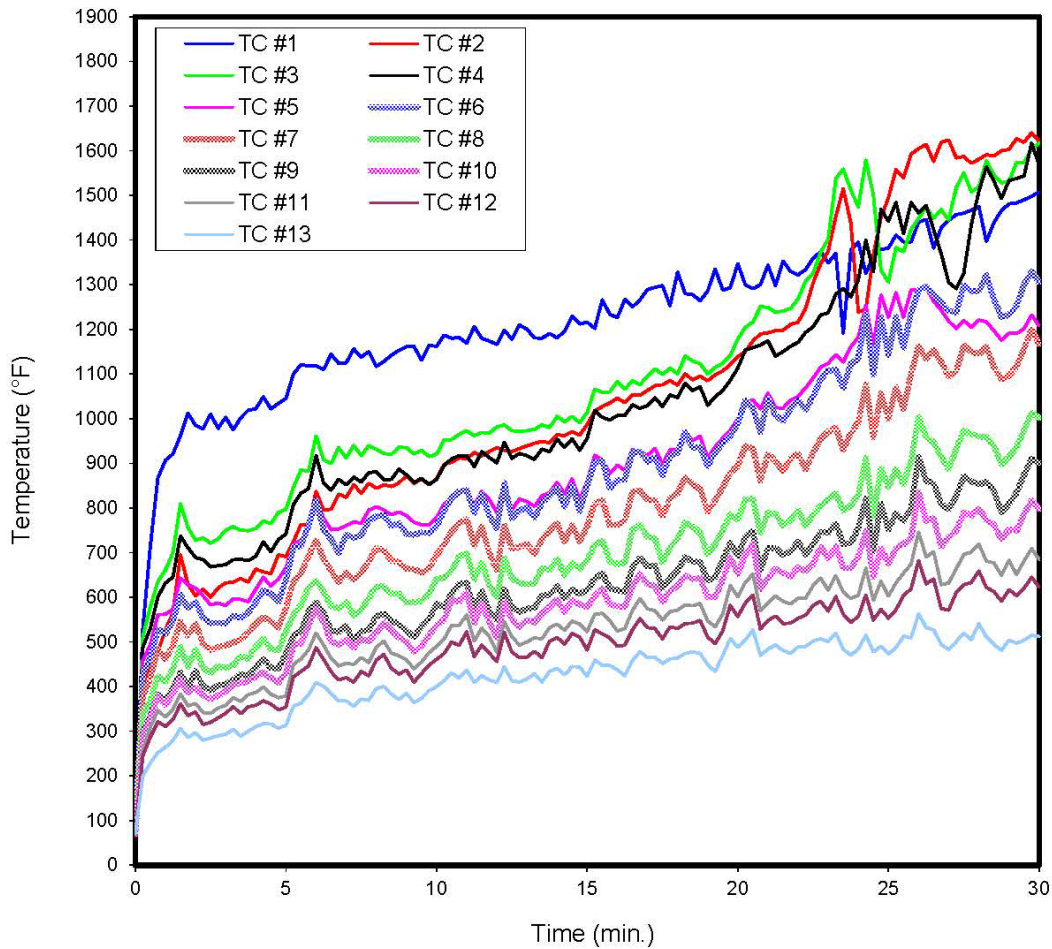


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Carter Architectural Panels Inc. Project No. G104488273SAT-004a January 26, 2021 Vertical Face TC 1-13

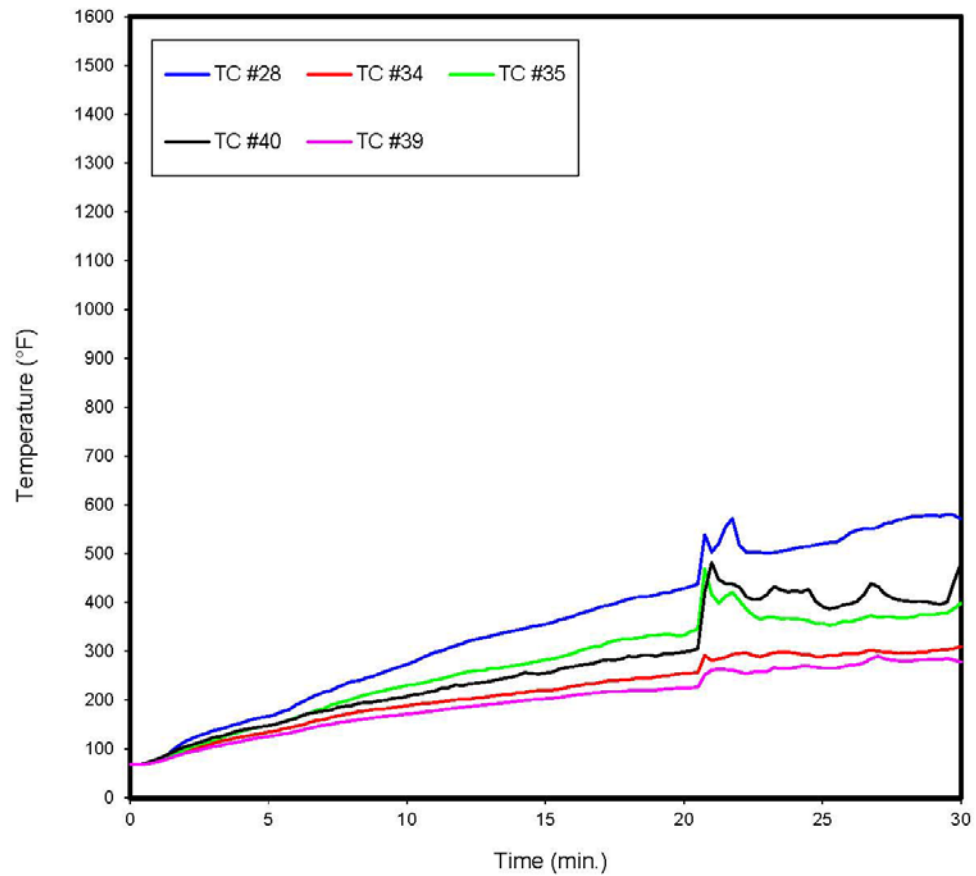


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Carter Architectural Panels Inc.
Project No. G104488273SAT-004a
January 26, 2021
10-ft Air Cavity
TC 28, 34, 35, 40, 39

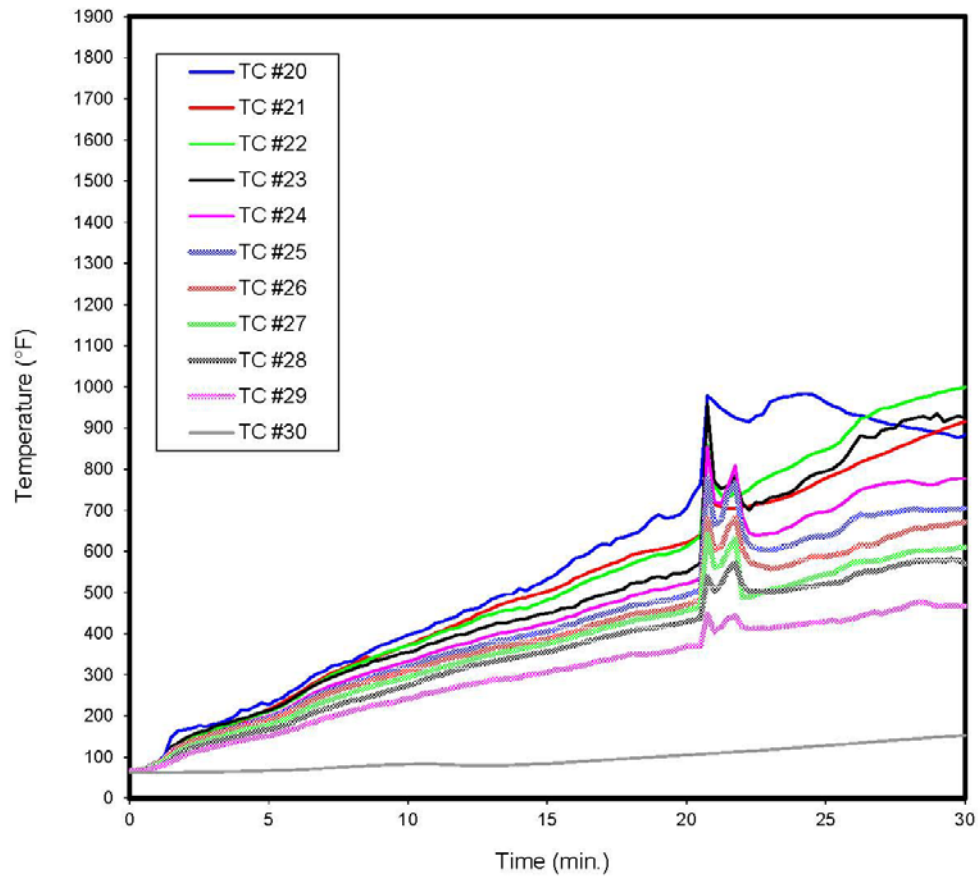


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Report No.: 104488273SAT-004A R0

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Carter Architectural Panels Inc.
Project No. G104488273SAT-004a
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Vertical Air Cavity
TC 20-30

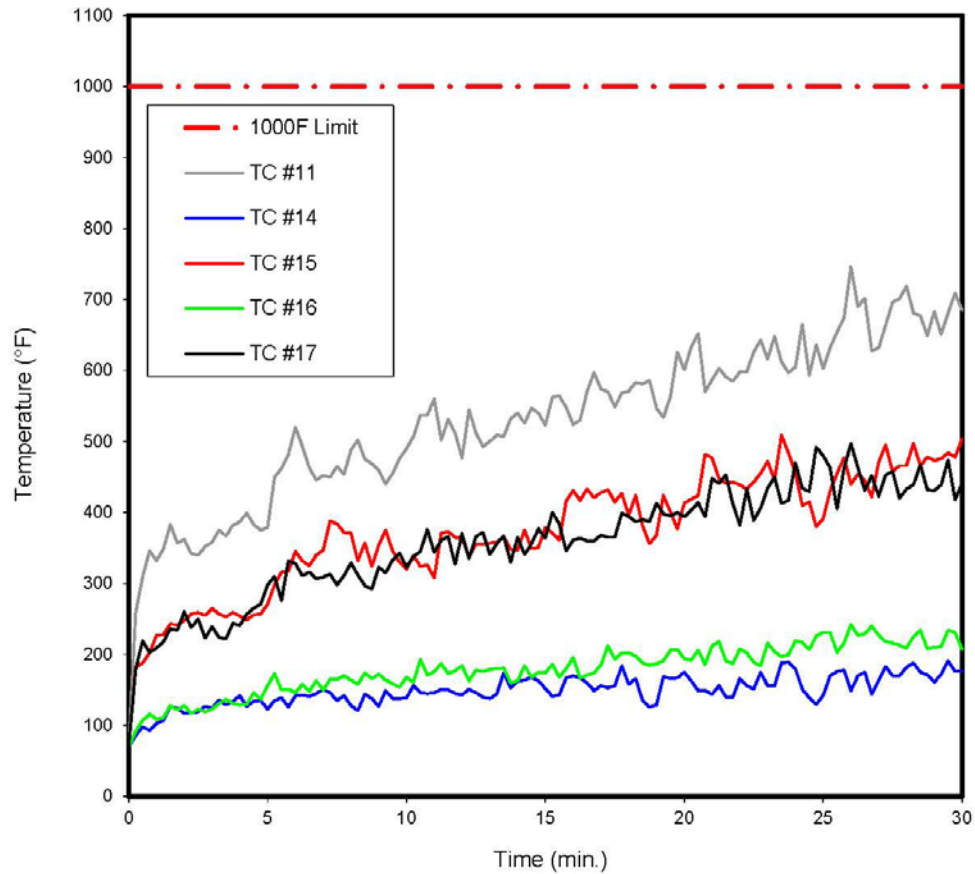


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Carter Architectural Panels Inc.
Project No. G104488273SAT-004a
January 26, 2021
10-ft Front Face
TC 11, 14-17

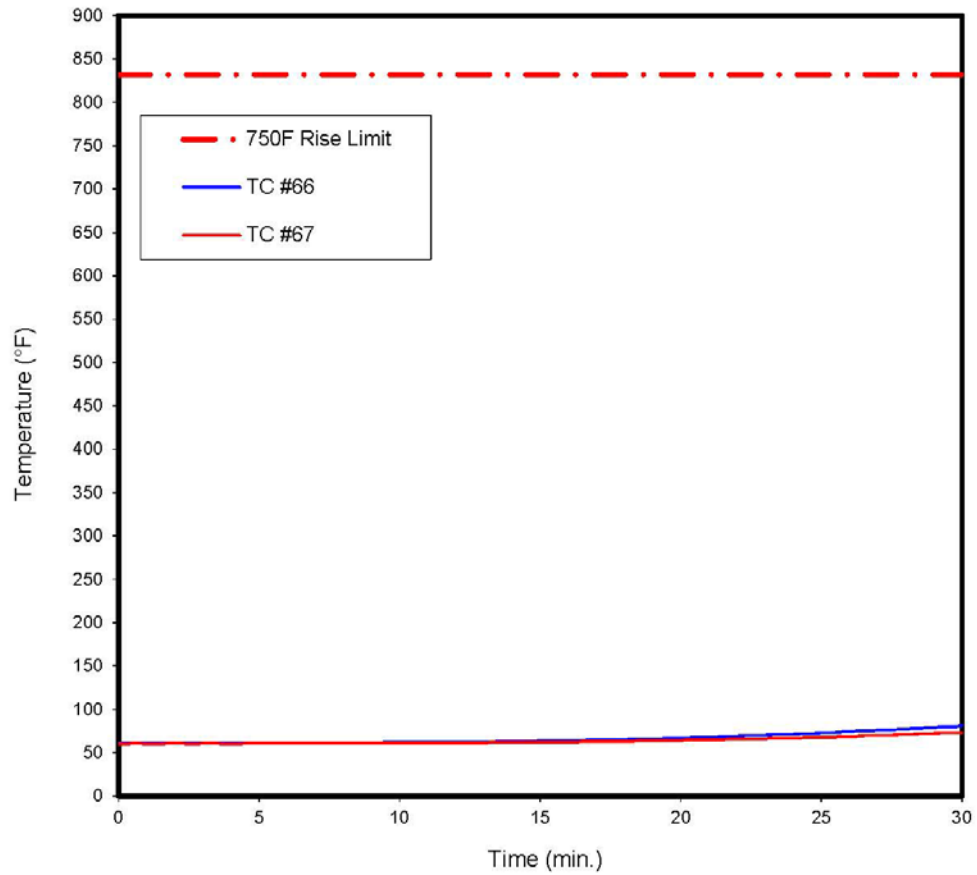


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Carter Architectural Panels Inc.
Project No. G104488273SAT-004a
January 26, 2021
Insulation
TC 66, 67

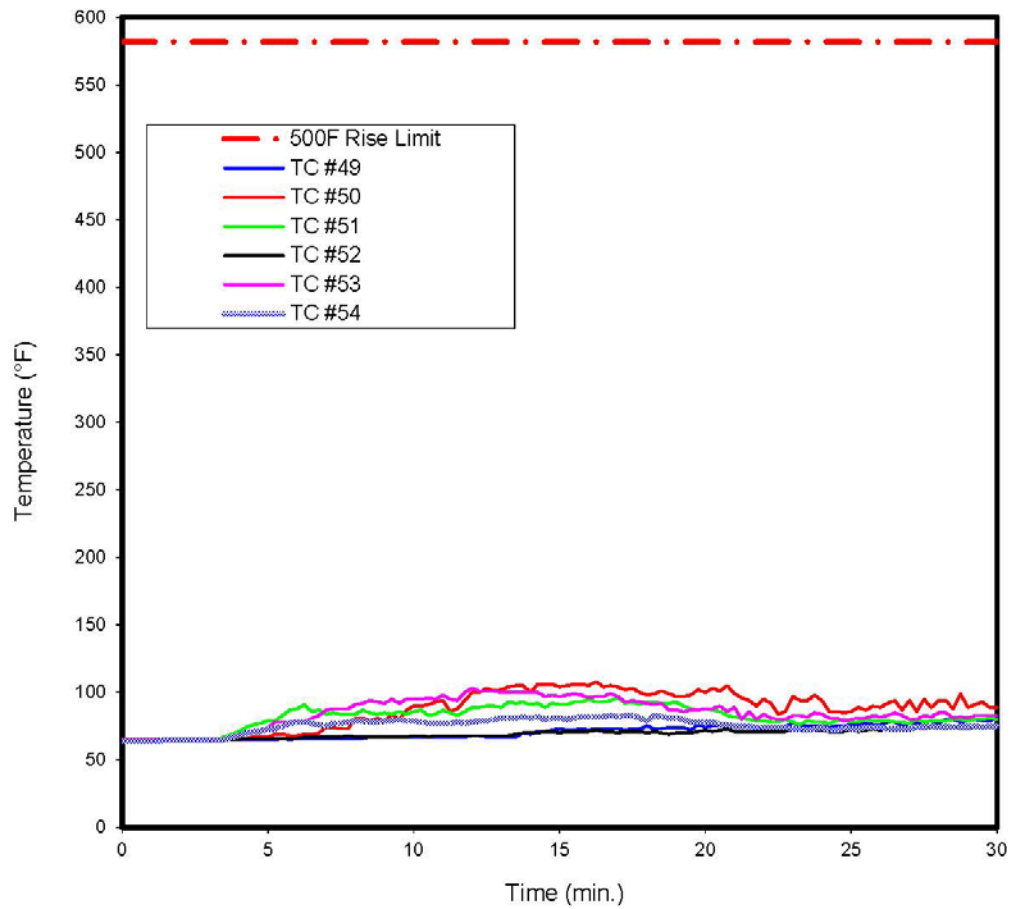


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Carter Architectural Panels Inc.
Project No. G104488273SAT-004a
January 26, 2021
2nd Floor, 1-in from wall
TC 49-54

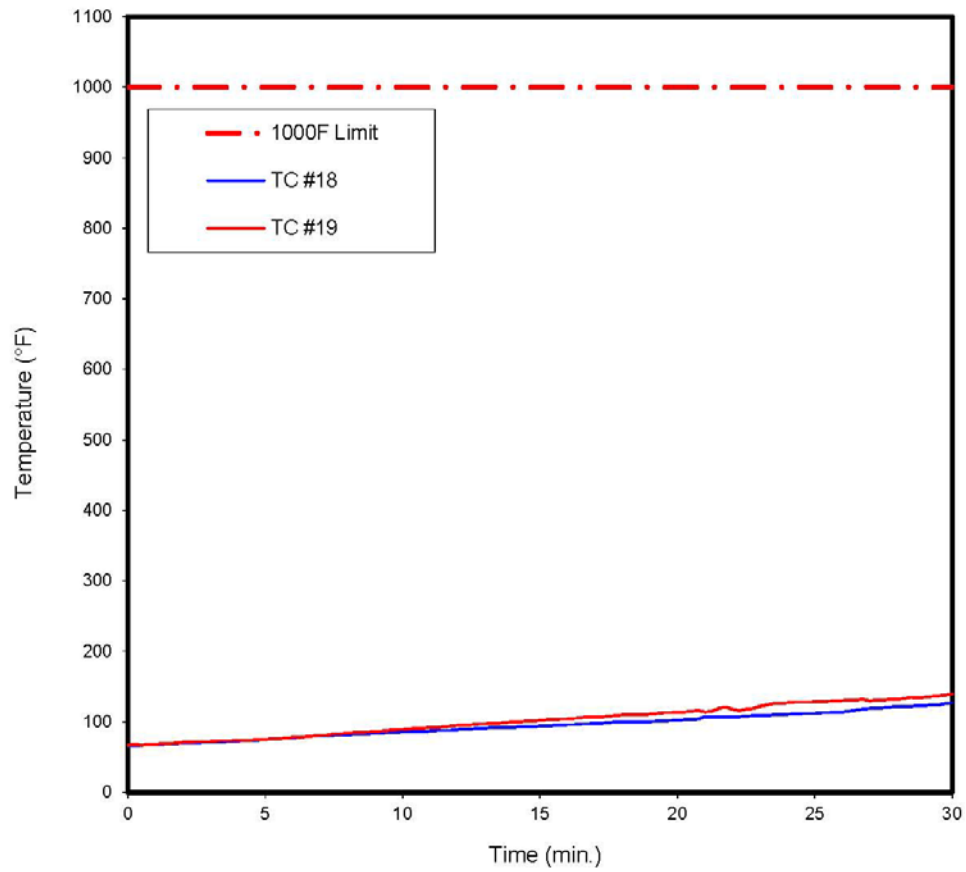


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Date: 05/24/21

Carter Architectural Panels Inc.
Project No. G104488273SAT-004a
January 26, 2021
Air Cavity
TC 18, 19

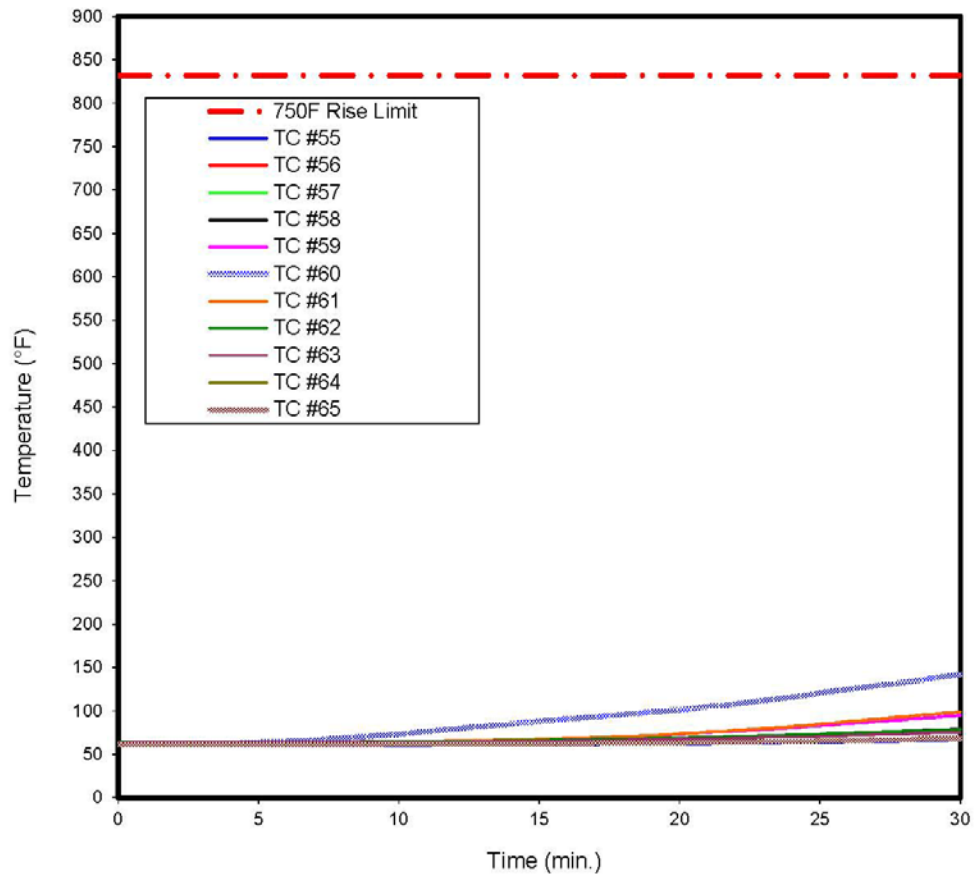


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Carter Architectural Panels Inc.
Project No. G104488273SAT-004a
January 26, 2021
Insulation
TC 55-65

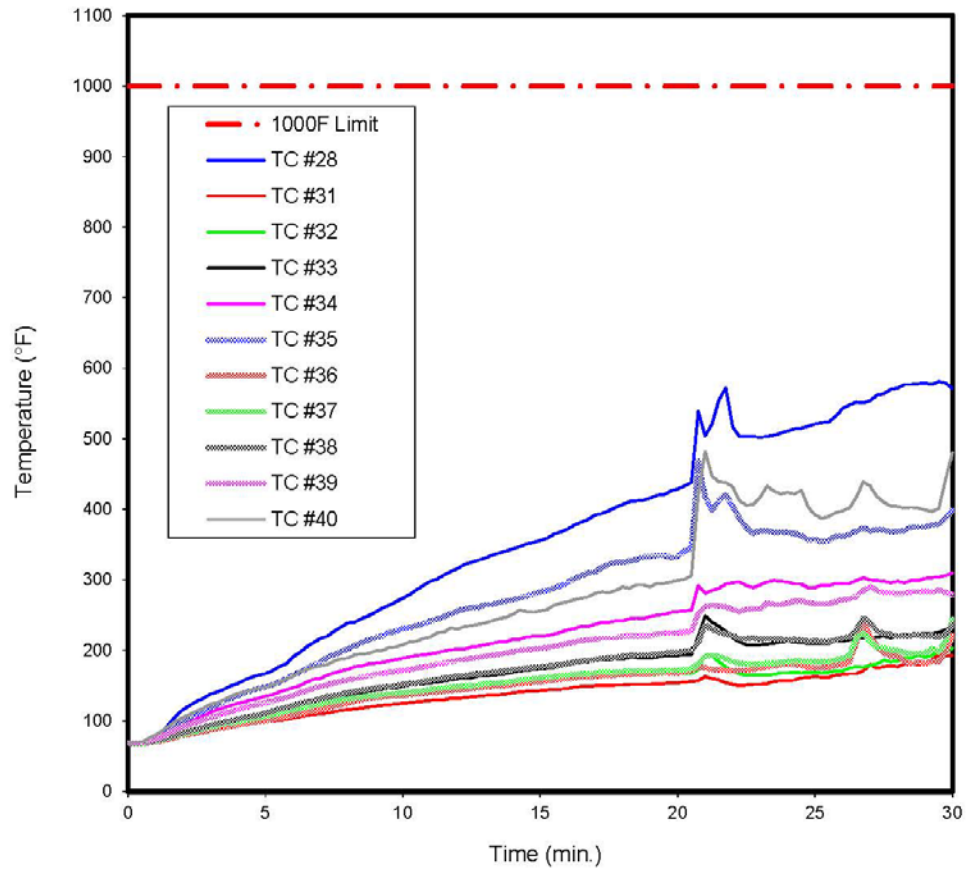


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Carter Architectural Panels Inc.
Project No. G104488273SAT-004a
January 26, 2021
Air Cavity
TC 28, 31-40

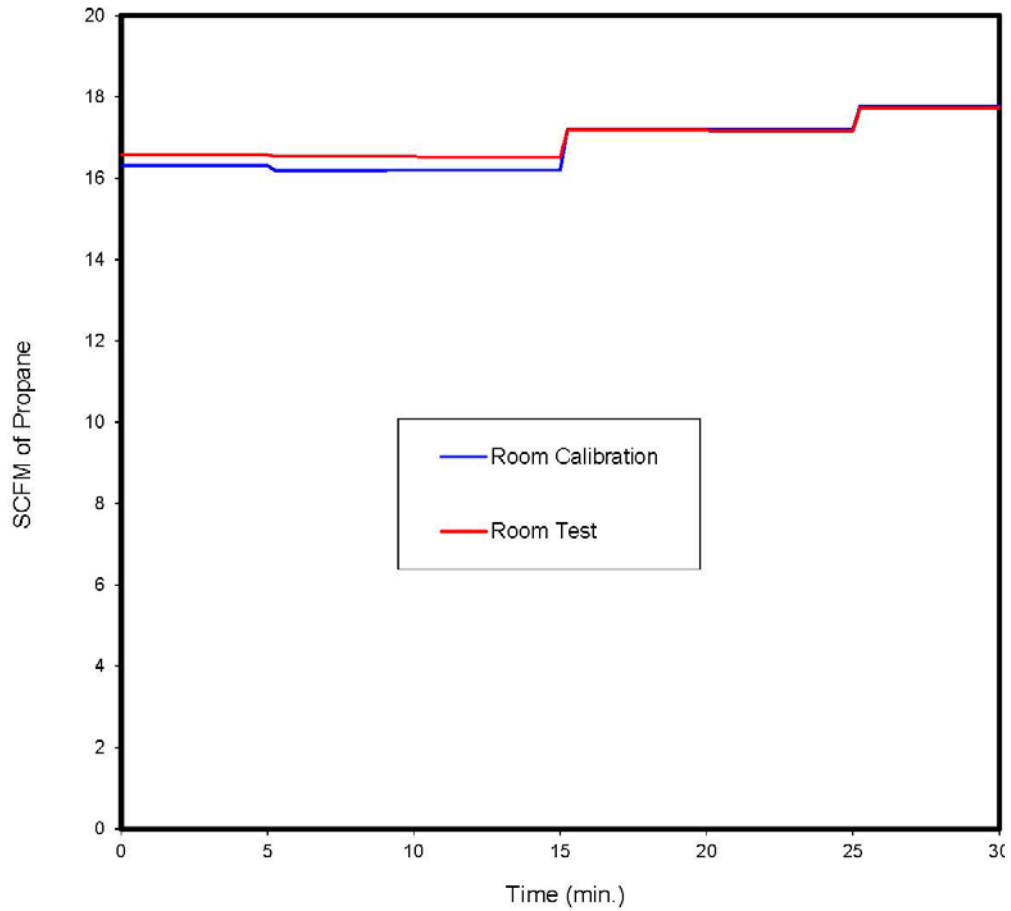


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**Carter Architectural Panels Inc.
Project No. G104488273SAT-004a
January 26, 2021
Room Burner Flow Rates**

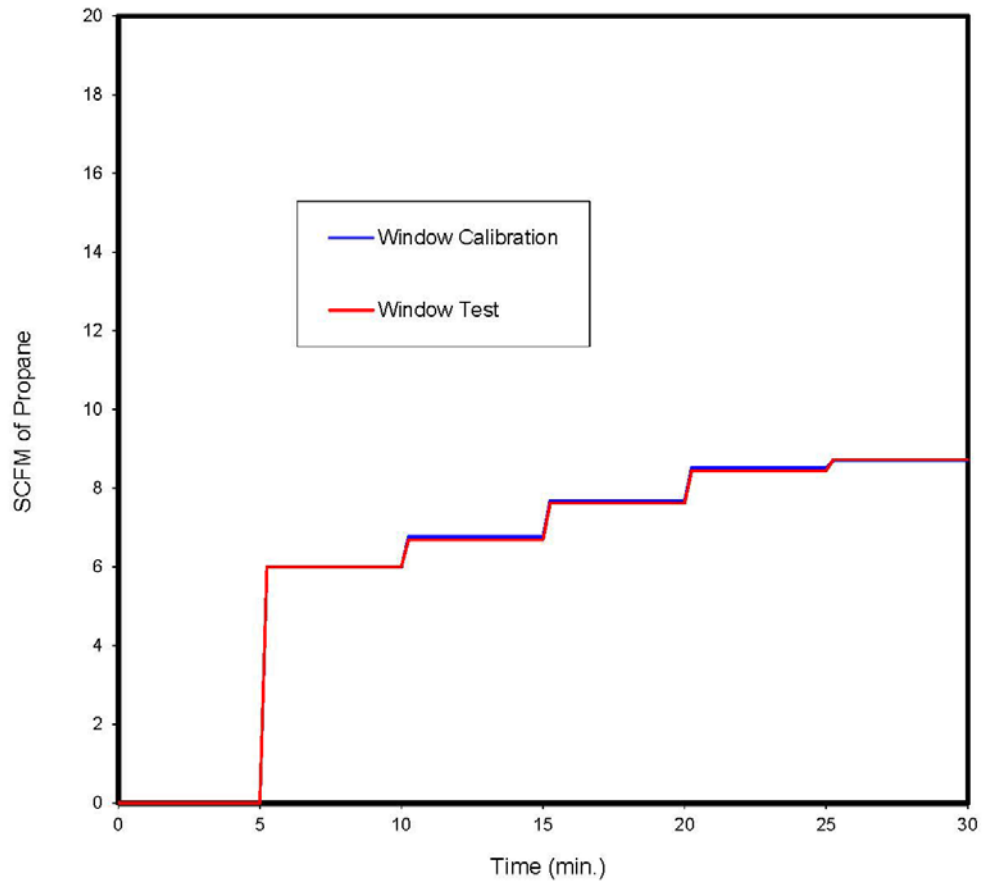


TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

Report No.: 104488273SAT-004A R0

Date: 05/24/21

Carter Architectural Panels Inc. Project No. G104488273SAT-004a January 26, 2021 Window Burner Flow Rates



TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

Report No.: 104488273SAT-004A R0

Date: 05/24/21

SECTION 14

NUMERICAL RESULTS

Carter Architectural Panels Inc.

Project No. G104488273SAT-004a

January 26, 2021

Time (min)	Burn Room (°F)	E119 Average (°F)	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)
0.00	91	68	71	70	70	69	69	69	69	70	70	70	70	71	71
0.25	618	115	530	398	511	488	458	428	376	339	298	291	259	245	200
0.50	947	161	714	462	579	530	493	465	420	369	334	326	309	287	229
0.75	1053	208	867	477	635	601	561	528	484	423	383	380	346	321	252
1.00	1101	254	907	528	661	632	562	518	462	411	368	359	332	311	264
1.25	1140	301	921	565	700	645	573	547	492	439	396	384	349	326	279
1.50	1158	348	962	695	809	737	643	605	545	489	431	415	383	361	306
1.75	1186	394	1012	629	756	711	628	576	513	445	398	386	357	335	286
2.00	1204	441	985	603	728	689	620	589	540	482	435	397	362	343	297
2.25	1221	487	977	618	733	684	603	554	497	442	401	380	342	315	280
2.50	1238	534	1010	600	721	668	583	542	481	431	391	372	340	320	285
2.75	1242	581	978	621	731	671	587	543	489	446	403	380	352	330	290
3.00	1257	627	1003	632	750	673	581	541	492	441	405	389	358	340	293
3.25	1275	674	975	634	758	684	597	559	498	448	414	405	375	355	304
3.50	1281	720	1002	642	750	685	595	554	506	468	428	408	367	339	289
3.75	1290	767	1019	634	749	682	590	566	521	462	424	412	382	355	300
4.00	1300	814	1022	663	754	692	618	589	541	489	443	422	387	358	310
4.25	1313	860	1049	657	771	724	645	615	555	507	462	432	399	368	317
4.50	1324	907	1022	653	765	702	625	608	546	484	442	419	383	361	316
4.75	1331	953	1034	695	790	729	641	590	532	481	440	409	375	348	307
5.00	1342	1000	1045	691	797	742	666	639	576	524	474	430	379	354	313
5.25	1355	1015	1100	725	846	808	720	712	634	561	513	492	450	422	356
5.50	1357	1030	1121	763	885	833	727	715	654	583	525	497	462	434	363
5.75	1368	1045	1118	762	882	843	754	760	692	621	568	536	482	446	382
6.00	1372	1060	1118	837	961	917	818	817	727	637	589	574	520	487	409
6.25	1370	1075	1110	795	908	856	777	751	686	613	565	545	493	461	401
6.50	1384	1090	1144	797	900	840	751	730	659	581	526	501	463	433	384
6.75	1383	1105	1124	831	935	864	753	699	635	574	522	494	446	415	368
7.00	1384	1120	1125	824	912	852	760	740	655	589	536	505	452	420	368
7.25	1383	1135	1156	852	940	869	769	733	639	559	501	487	450	410	356
7.50	1391	1150	1138	833	917	858	766	739	656	572	524	506	465	434	372
7.75	1389	1165	1150	855	940	879	795	771	680	599	527	501	454	424	369
8.00	1399	1180	1117	844	931	881	803	781	710	623	557	521	488	459	396
8.25	1409	1195	1128	852	922	863	795	784	706	625	563	542	502	472	400
8.50	1409	1210	1142	848	920	864	785	760	682	608	548	527	475	441	383
8.75	1404	1225	1153	856	936	887	791	765	679	608	539	510	469	428	371
9.00	1404	1240	1161	872	935	874	783	742	664	588	525	500	460	437	385
9.25	1413	1255	1162	855	921	857	768	740	663	589	511	478	440	410	364
9.50	1417	1270	1131	865	929	866	762	745	655	592	535	491	455	429	374
9.75	1413	1285	1164	852	915	853	762	744	665	608	551	515	476	448	391
10.00	1421	1300	1162	865	920	864	778	759	695	641	585	537	490	461	400
10.25	1422	1312	1187	898	952	895	809	794	718	643	578	550	507	474	413
10.50	1425	1317	1180	902	953	910	821	822	747	660	609	594	537	500	430
10.75	1436	1323	1182	912	965	917	837	837	766	691	630	590	537	492	419
11.00	1426	1328	1169	910	973	917	838	840	776	699	633	612	560	523	437
11.25	1447	1333	1206	924	962	893	806	789	716	640	573	542	502	467	409
11.50	1437	1337	1180	917	969	926	837	831	758	677	614	586	531	493	424
11.75	1441	1342	1174	926	968	913	819	783	699	627	569	545	512	475	415
12.00	1441	1347	1166	935	981	901	790	755	662	600	550	509	477	456	409
12.25	1437	1351	1198	929	986	947	859	855	760	687	618	588	545	521	444
12.50	1449	1356	1178	926	973	911	796	777	709	642	578	551	512	477	413



Total Quality. Assured.

16015 Shady Falls Road
Elmendorf, Texas 78112

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TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

Report No.: 104488273SAT-004A R0

Date: 05/24/21

Carter Architectural Panels Inc.

Project No. G104488273SAT-004a

January 26, 2021

Burn Time (min)	Room	E119 Average (°F)	TC #1 - TC #13											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)
12.75	1453	1360	1210	933	972	922	820	794	713	632	567	533	493	465	410
13.00	1450	1364	1200	939	973	917	814	801	719	629	574	549	500	466	417
13.25	1450	1369	1181	945	976	909	804	778	697	631	577	544	509	479	429
13.50	1457	1373	1180	949	986	932	827	812	730	666	604	564	507	465	410
13.75	1459	1377	1191	946	980	926	834	828	749	662	605	578	532	501	434
14.00	1453	1381	1181	964	1005	954	857	846	765	685	625	595	540	510	441
14.25	1457	1385	1196	962	993	936	832	803	725	649	598	567	526	495	426
14.50	1457	1388	1230	971	1005	955	865	850	761	676	617	594	547	519	445
14.75	1458	1392	1212	963	991	929	818	793	725	664	607	584	540	511	444
15.00	1470	1396	1216	987	1014	956	860	851	759	683	617	578	523	482	423
15.25	1494	1400	1202	1017	1066	1018	918	902	810	718	641	603	562	527	459
15.50	1522	1403	1266	1027	1059	1003	907	906	818	727	654	619	564	518	448
15.75	1525	1407	1234	1035	1060	997	877	845	762	681	620	584	548	509	447
16.00	1523	1410	1226	1046	1083	1007	896	862	762	674	616	580	524	490	438
16.25	1526	1414	1267	1036	1066	1007	884	864	772	677	612	578	530	493	424
16.50	1527	1417	1250	1054	1085	1031	931	925	836	751	667	623	570	527	458
16.75	1545	1420	1266	1052	1076	1023	924	926	839	762	688	652	597	552	478
17.00	1543	1424	1289	1063	1095	1029	918	904	819	735	669	630	574	532	465
17.25	1539	1427	1294	1074	1112	1047	933	913	817	731	671	625	570	530	466
17.50	1543	1430	1298	1076	1099	1027	898	873	782	679	621	590	549	507	452
17.75	1533	1433	1253	1085	1113	1053	930	917	821	711	642	614	568	534	462
18.00	1542	1436	1328	1075	1100	1047	930	924	834	732	660	625	571	530	464
18.25	1546	1439	1280	1100	1140	1079	968	969	868	767	690	648	583	541	474
18.50	1547	1442	1278	1087	1129	1063	951	935	853	758	680	641	581	542	478
18.75	1560	1445	1264	1095	1123	1071	961	937	842	744	679	643	586	548	474
19.00	1572	1448	1286	1085	1100	1030	912	894	792	697	638	601	547	511	449
19.25	1572	1451	1335	1098	1115	1049	937	925	818	719	645	601	534	496	434
19.50	1560	1454	1288	1107	1124	1063	956	945	847	751	684	639	563	525	470
19.75	1563	1457	1293	1121	1142	1086	974	962	879	785	722	688	626	582	508
20.00	1568	1459	1347	1139	1178	1113	1000	988	894	774	693	653	601	557	488
20.25	1577	1462	1300	1150	1205	1154	1034	1041	939	819	735	696	633	587	504
20.50	1579	1465	1291	1174	1216	1159	1042	1023	933	821	748	720	652	605	527
20.75	1579	1467	1300	1190	1251	1165	1022	970	861	745	662	618	570	529	470
21.00	1582	1470	1344	1192	1249	1174	1057	1045	920	789	710	644	587	548	484
21.25	1580	1473	1298	1197	1238	1140	1025	1007	906	786	710	663	603	558	493
21.50	1585	1475	1353	1198	1241	1150	1023	995	882	761	695	655	591	541	481
21.75	1582	1478	1330	1211	1247	1162	1041	1022	911	773	702	647	585	542	474
22.00	1594	1480	1322	1216	1268	1171	1050	1041	921	795	725	667	598	553	489
22.25	1598	1483	1334	1247	1308	1193	1069	1020	887	760	696	659	598	560	490
22.50	1604	1485	1359	1304	1326	1206	1091	1050	924	785	719	675	626	582	502
22.75	1611	1488	1374	1347	1373	1232	1115	1089	955	804	747	713	643	591	507
23.00	1604	1490	1349	1375	1402	1237	1124	1107	971	819	744	687	616	569	501
23.25	1594	1493	1370	1452	1537	1279	1143	1110	980	833	765	714	648	602	520
23.50	1612	1495	1191	1515	1559	1291	1127	1069	931	794	719	666	612	562	484
23.75	1610	1497	1377	1438	1512	1273	1161	1122	968	806	721	665	597	544	470
24.00	1605	1499	1395	1239	1474	1311	1182	1135	992	829	755	691	605	557	484
24.25	1601	1502	1325	1245	1579	1400	1254	1234	1077	912	822	748	665	605	515
24.50	1608	1504	1363	1367	1500	1329	1163	1099	959	782	704	646	593	549	478
24.75	1613	1506	1379	1450	1332	1469	1277	1227	1056	888	809	709	636	573	490
25.00	1619	1508	1382	1495	1306	1442	1227	1143	1000	847	752	676	603	553	473
25.25	1646	1511	1411	1558	1383	1484	1282	1228	1070	887	788	709	632	572	487



Total Quality. Assured.

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Report No.: 104488273SAT-004A R0

Date: 05/24/21

Carter Architectural Panels Inc.

Project No. G104488273SAT-004a

January 26, 2021

Time (min)	Burn Room (°F)	E119 Average (°F)	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)
25.50	1648	1513	1396	1539	1374	1414	1227	1159	1021	854	771	719	654	604	513
25.75	1657	1515	1396	1592	1424	1484	1288	1238	1101	904	799	732	674	619	509
26.00	1652	1517	1440	1605	1448	1461	1288	1287	1162	1003	914	836	746	682	563
26.25	1659	1519	1446	1614	1474	1477	1293	1296	1134	958	861	770	690	630	532
26.50	1657	1521	1382	1576	1449	1423	1263	1278	1153	947	855	777	702	641	527
26.75	1666	1523	1427	1619	1468	1370	1243	1259	1127	914	809	714	628	575	494
27.00	1688	1525	1444	1624	1445	1305	1218	1242	1095	888	797	734	632	571	483
27.25	1690	1527	1457	1584	1518	1291	1202	1237	1106	932	827	750	664	611	501
27.50	1691	1529	1460	1587	1551	1325	1220	1299	1164	973	871	790	696	628	519
27.75	1671	1531	1467	1572	1508	1434	1204	1285	1150	965	859	783	701	633	505
28.00	1692	1533	1475	1581	1519	1509	1221	1286	1145	960	853	798	719	659	541
28.25	1694	1535	1397	1591	1577	1564	1217	1321	1161	959	858	773	681	622	511
28.50	1703	1537	1439	1588	1546	1532	1197	1267	1115	939	838	762	677	613	494
28.75	1706	1539	1466	1600	1528	1493	1176	1228	1089	898	791	730	649	591	481
29.00	1701	1541	1481	1603	1532	1533	1191	1232	1096	914	809	752	683	617	504
29.25	1715	1543	1483	1627	1573	1538	1191	1253	1117	936	834	749	651	604	497
29.50	1713	1545	1490	1619	1573	1543	1201	1300	1156	974	874	786	681	620	504
29.75	1707	1547	1498	1640	1604	1617	1232	1329	1201	1013	910	817	709	645	515
30.00	1698	1549	1508	1622	1617	1568	1208	1306	1167	1002	901	798	685	623	512
Max Temp			1508	1640	1617	1617	1293	1329	1201	1013	914	836	746	682	563
Max Allowed													1000		



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Time (min)	Pass/ Fail	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)
	TC #14 (°F)	TC #15 (°F)	TC #16 (°F)	TC #17 (°F)	TC #18 (°F)	TC #19 (°F)								
0.00	70	70	70	70	67	67	67	67	68	68	67	68	68	68
0.25	86	182	92	179	67	68	68	67	68	69	67	68	68	68
0.50	98	188	107	219	67	67	70	69	69	72	71	70	70	69
0.75	93	202	116	203	68	68	78	75	76	78	79	79	77	76
1.00	103	227	109	209	68	68	89	81	84	87	88	87	86	82
1.25	107	228	111	218	68	69	102	90	95	99	96	96	94	90
1.50	127	243	128	236	69	69	149	107	116	124	116	115	113	103
1.75	124	242	122	234	69	70	164	114	130	135	127	124	123	114
2.00	117	248	128	260	70	71	167	123	138	146	135	132	132	122
2.25	118	257	117	238	70	71	170	129	146	154	142	137	139	129
2.50	119	259	123	250	70	72	177	139	153	161	147	142	145	134
2.75	127	255	119	223	71	72	174	146	158	164	152	147	149	138
3.00	124	265	123	239	71	72	180	157	166	173	160	157	156	146
3.25	136	257	131	224	71	73	183	162	171	179	164	160	160	149
3.50	129	253	137	222	72	73	190	169	176	182	169	165	164	154
3.75	134	259	131	244	72	73	198	177	183	188	174	171	168	159
4.00	142	254	129	241	73	74	214	187	190	193	179	176	173	163
4.25	127	249	130	257	73	74	214	193	194	197	184	179	177	168
4.50	134	256	146	265	74	74	223	201	200	204	190	186	182	171
4.75	135	257	137	271	74	75	232	209	206	209	196	190	186	174
5.00	123	271	156	298	75	75	227	216	211	213	199	194	189	179
5.25	135	298	173	310	76	76	238	224	217	220	205	200	195	183
5.50	139	316	150	276	76	76	244	233	225	228	213	207	202	190
5.75	126	317	151	332	77	77	258	244	236	237	221	216	209	196
6.00	142	345	146	328	77	78	267	252	244	249	231	224	218	205
6.25	143	332	158	311	78	78	278	263	256	259	241	233	227	214
6.50	141	325	148	316	79	79	293	275	270	270	251	243	237	221
6.75	145	340	163	307	80	80	303	285	280	278	259	250	244	228
7.00	151	347	150	309	80	81	309	294	289	286	267	258	251	235
7.25	146	388	165	313	80	81	321	305	299	294	274	264	257	240
7.50	135	384	165	298	81	83	324	310	307	300	279	268	263	246
7.75	142	372	170	311	81	83	331	318	314	307	285	274	268	251
8.00	128	371	164	329	81	84	333	325	321	313	292	279	273	257
8.25	121	332	158	312	83	85	344	334	328	320	297	285	278	263
8.50	144	357	174	297	83	85	353	343	334	323	302	288	283	268
8.75	138	324	166	292	83	86	362	339	342	334	309	295	289	273
9.00	127	354	172	323	84	86	371	346	348	336	313	300	292	278
9.25	149	375	164	315	84	87	376	353	356	341	318	306	296	282
9.50	138	346	159	333	85	88	383	359	360	346	323	309	301	285
9.75	138	330	154	343	85	89	389	366	366	352	328	314	306	290
10.00	139	320	168	323	86	89	397	373	372	355	333	321	311	295
10.25	156	339	161	338	86	90	402	378	375	358	337	323	314	299
10.50	146	324	193	345	86	91	407	388	382	367	344	330	320	304
10.75	145	326	171	376	86	91	414	393	390	375	351	339	326	309
11.00	146	308	176	344	87	92	426	402	399	378	356	341	330	314
11.25	151	371	187	361	88	92	430	408	405	385	362	348	337	319
11.50	150	373	173	366	88	93	437	416	411	390	367	352	340	323
11.75	145	365	177	327	88	94	442	422	414	397	372	357	344	327
12.00	143	364	184	370	89	95	455	431	421	398	375	359	347	332
12.25	151	337	163	335	90	95	459	437	427	403	379	363	350	336
12.50	146	356	178	366	90	96	462	448	437	411	385	369	354	341

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Date: 05/24/21

Carter Architectural Panels Inc.

Project No. G104488273SAT-004a

January 26, 2021

Time (min)	Pass/ Fail	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)
	TC #14 (°F)	TC #15 (°F)	TC #16 (°F)	TC #17 (°F)	TC #18 (°F)	TC #19 (°F)								
12.75	140	355	176	372	91	97	472	454	444	416	391	374	360	345
13.00	138	357	179	341	91	97	484	461	446	421	395	380	364	349
13.25	144	358	180	356	92	98	490	469	453	427	401	383	368	353
13.50	174	366	181	367	92	98	496	475	457	425	402	384	370	356
13.75	153	348	160	330	92	99	496	480	458	431	406	387	372	359
14.00	162	347	163	365	92	100	510	486	463	435	410	393	377	362
14.25	164	375	184	341	93	100	504	488	461	437	412	395	378	365
14.50	168	349	168	356	93	101	516	494	469	443	417	399	382	369
14.75	163	351	175	377	93	101	522	498	475	447	422	403	385	372
15.00	152	379	174	364	94	102	533	503	483	450	425	405	387	375
15.25	141	371	186	400	94	103	541	508	487	453	429	410	392	380
15.50	143	361	168	384	95	103	555	516	497	461	435	417	397	384
15.75	167	416	180	346	95	104	567	523	505	463	441	421	401	388
16.00	170	431	196	361	96	104	583	535	513	465	444	424	404	393
16.25	167	417	167	364	96	105	588	541	522	479	453	433	412	399
16.50	160	433	171	360	97	106	596	550	530	485	460	438	418	403
16.75	149	421	174	360	97	107	610	555	536	491	464	443	423	408
17.00	156	428	185	368	98	107	619	562	541	495	470	448	428	414
17.25	153	432	212	365	98	107	616	569	550	499	475	452	432	418
17.50	156	415	193	365	99	108	632	574	554	504	478	456	436	421
17.75	184	427	202	399	100	109	634	581	561	509	483	461	441	426
18.00	158	396	202	394	100	110	641	591	569	522	492	469	447	430
18.25	166	424	198	387	100	110	646	595	576	525	496	471	451	435
18.50	135	381	188	390	100	110	660	599	581	526	499	471	450	436
18.75	126	356	185	387	100	110	679	602	589	536	506	477	454	440
19.00	129	368	187	413	100	111	689	605	592	539	507	479	455	443
19.25	169	424	191	398	101	112	681	608	592	535	509	481	458	445
19.50	166	401	206	395	101	113	683	612	598	546	514	484	462	448
19.75	167	377	207	400	102	113	689	617	603	547	519	489	466	452
20.00	175	413	194	394	102	114	705	621	612	549	521	494	471	456
20.25	163	419	192	403	103	114	738	629	624	561	527	500	476	461
20.50	149	424	206	414	103	115	763	640	638	572	535	507	483	467
20.75	149	482	186	394	104	116	978	726	860	957	854	779	680	641
21.00	144	477	212	448	107	114	964	715	759	769	721	664	605	561
21.25	156	448	218	441	107	115	947	708	737	752	716	677	611	567
21.50	140	441	191	453	107	119	935	705	733	761	760	744	658	604
21.75	140	443	187	412	107	121	925	704	742	784	808	764	681	631
22.00	166	439	208	382	107	118	919	708	741	718	685	646	606	490
22.25	156	433	202	433	107	116	915	710	750	701	644	616	576	489
22.50	151	443	189	389	108	118	929	715	766	720	639	607	567	495
22.75	175	455	184	406	109	119	934	717	775	719	641	604	564	501
23.00	156	472	216	434	109	122	963	721	784	731	643	604	558	506
23.25	156	446	204	450	109	124	970	725	792	734	645	605	560	510
23.50	188	509	197	413	110	126	976	730	798	739	655	613	564	514
23.75	189	484	200	417	110	126	977	736	806	744	660	614	567	518
24.00	180	456	219	470	111	127	982	744	815	757	671	623	575	524
24.25	151	410	217	434	111	128	983	751	828	774	683	630	580	530
24.50	139	415	207	430	112	128	982	760	836	785	690	635	587	535
24.75	130	380	226	492	112	128	974	770	842	791	695	637	588	541
25.00	142	391	231	480	112	128	962	778	847	795	696	637	587	544
25.25	170	430	231	463	113	129	954	785	854	801	701	641	591	547



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Report No.: 104488273SAT-004A R0

Date: 05/24/21

Carter Architectural Panels Inc.

Project No. G104488273SAT-004a

January 26, 2021

Time (min)	Pass/ Fail	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)
	TC #14 (°F)	TC #15 (°F)	TC #16 (°F)	TC #17 (°F)	TC #18 (°F)	TC #19 (°F)								
25.50	176	455	203	405	113	129	948	792	865	813	712	650	594	557
25.75	178	477	216	462	114	130	937	799	886	832	724	666	596	565
26.00	149	440	242	497	114	130	932	808	902	858	739	680	608	573
26.25	170	454	227	463	115	131	931	817	923	882	750	690	616	575
26.50	175	445	229	431	117	131	926	824	927	877	755	688	615	576
26.75	144	422	240	452	118	132	919	829	938	876	759	688	616	577
27.00	164	471	227	423	119	130	915	836	947	894	763	692	626	578
27.25	183	495	218	453	119	131	910	842	949	898	766	694	635	584
27.50	170	458	216	458	120	131	908	850	954	900	767	695	639	588
27.75	170	466	213	420	121	132	905	857	960	917	770	699	645	594
28.00	182	466	209	433	122	132	900	863	965	921	772	702	652	599
28.25	188	497	225	439	122	133	899	871	971	925	767	704	657	602
28.50	175	466	234	467	122	135	895	878	975	928	764	701	655	602
28.75	171	478	208	432	123	134	892	885	978	922	762	701	660	602
29.00	161	473	210	431	123	135	889	891	985	935	764	701	662	604
29.25	172	476	211	439	124	136	887	898	988	915	771	702	662	604
29.50	191	484	234	474	124	137	882	904	993	923	776	703	667	605
29.75	176	478	231	418	126	138	876	910	996	929	777	703	669	608
30.00	177	504	207	441	127	140	883	916	999	925	777	706	671	610
Max Temp	191	509	242	497	127	140	983	916	999	957	854	779	681	641
Max Allowed	1000	1000	1000	1000	1000	1000								



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	TC #28 (°F)	TC #29 (°F)	TC #30 (°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)	TC #41 (°F)
0.00	68	68	63	68	69	69	69	69	68	68	68	69	69	74
0.25	68	68	63	68	69	69	69	69	68	68	68	69	69	759
0.50	69	68	63	68	69	69	69	69	68	68	69	69	70	1525
0.75	72	71	63	69	70	71	72	72	69	69	70	71	75	1538
1.00	78	76	63	71	71	73	75	75	70	71	72	74	80	1561
1.25	83	81	63	72	74	75	79	80	72	73	74	78	86	1572
1.50	96	89	63	74	77	78	84	87	74	76	77	83	93	1590
1.75	107	97	63	77	80	81	90	94	77	79	80	88	100	1530
2.00	116	105	63	79	83	84	96	100	80	81	83	92	105	1326
2.25	122	111	63	81	84	87	100	105	81	84	86	95	109	1244
2.50	128	116	64	83	87	90	104	110	83	86	88	98	114	1235
2.75	132	120	64	84	89	92	108	114	85	89	91	102	118	1206
3.00	138	125	64	86	92	94	112	119	87	91	94	105	124	1229
3.25	141	128	64	88	94	97	116	123	89	93	96	107	126	1282
3.50	145	133	65	89	96	99	119	128	91	96	99	111	130	1346
3.75	150	136	65	91	98	101	122	132	93	97	100	113	135	1072
4.00	153	140	65	93	100	103	125	136	94	99	103	116	139	1494
4.25	158	144	66	94	101	106	127	140	96	101	105	119	141	1558
4.50	162	147	66	97	103	108	130	143	98	103	107	122	144	1601
4.75	165	150	67	98	105	109	132	146	99	105	108	124	146	1735
5.00	167	151	67	99	106	111	135	148	100	107	111	126	148	1907
5.25	171	156	67	100	108	113	137	151	102	109	114	128	151	1740
5.50	177	161	68	101	109	115	141	155	105	111	117	131	155	2045
5.75	181	166	68	102	111	116	144	160	106	113	119	133	159	1835
6.00	191	169	69	104	113	119	147	165	108	116	122	136	163	2113
6.25	197	177	70	106	115	121	150	169	110	118	125	140	170	2061
6.50	205	183	71	108	118	124	155	174	112	120	127	143	173	2236
6.75	211	187	72	109	119	126	159	180	114	122	129	146	176	2253
7.00	217	195	73	110	121	128	160	183	116	124	131	149	178	2208
7.25	220	198	74	111	122	130	165	190	118	126	135	151	180	32767
7.50	227	203	75	113	124	133	168	194	121	128	136	154	185	2311
7.75	233	208	76	115	126	135	171	198	123	130	138	156	188	32767
8.00	239	213	77	116	127	136	173	202	125	131	140	158	189	32767
8.25	240	217	78	117	128	139	177	207	128	133	142	160	194	32767
8.50	245	221	79	118	130	140	178	211	130	134	144	162	195	32767
8.75	249	226	80	120	132	142	181	215	132	136	145	164	196	32767
9.00	254	229	80	121	133	144	182	218	133	136	147	166	199	32767
9.25	260	231	81	122	134	145	183	221	134	137	148	167	200	32767
9.50	264	232	82	123	135	147	185	225	135	139	149	169	204	1159
9.75	269	239	82	124	136	147	187	227	136	139	150	170	205	32767
10.00	274	243	83	125	137	149	189	231	136	140	152	172	208	32767
10.25	279	244	83	126	138	151	191	232	137	141	153	173	212	32767
10.50	286	253	83	127	139	152	193	235	138	142	154	175	213	2437
10.75	292	256	83	128	140	153	194	238	139	143	156	177	217	1957
11.00	298	259	83	129	142	154	195	242	140	145	158	178	219	32767
11.25	301	262	82	130	143	155	197	244	141	146	159	181	225	2475
11.50	307	266	81	130	144	157	199	248	142	147	161	182	226	2345
11.75	312	271	81	132	145	158	201	252	143	148	162	184	232	32767
12.00	316	274	80	132	145	160	202	256	144	149	164	186	230	2480
12.25	322	277	80	133	146	160	202	259	145	150	164	187	234	2414
12.50	325	281	80	134	147	161	205	261	146	150	166	189	235	2434



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Carter Architectural Panels Inc.

Project No. G104488273SAT-004a

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Time (min)	Pass/Fail TC #28 (°F)	Pass/Fail TC #29 (°F)	Pass/Fail TC #30 (°F)	Pass/Fail TC #31 (°F)	Pass/Fail TC #32 (°F)	Pass/Fail TC #33 (°F)	Pass/Fail TC #34 (°F)	Pass/Fail TC #35 (°F)	Pass/Fail TC #36 (°F)	Pass/Fail TC #37 (°F)	Pass/Fail TC #38 (°F)	Pass/Fail TC #39 (°F)	Pass/Fail TC #40 (°F)	Pass/Fail TC #41 (°F)
12.75	328	282	80	135	149	164	206	261	147	151	167	190	237	32767
13.00	331	288	80	136	149	164	208	265	148	153	168	192	239	32767
13.25	335	288	80	137	150	165	210	265	149	154	169	193	242	32767
13.50	338	290	80	137	151	166	212	268	150	154	170	195	245	32767
13.75	341	291	81	138	152	167	212	270	150	155	171	196	247	32767
14.00	344	293	81	140	153	169	216	272	152	156	173	198	251	32767
14.25	347	299	82	141	154	171	216	275	153	158	174	200	257	32767
14.50	351	302	83	142	156	172	219	277	154	159	175	201	255	32767
14.75	353	303	84	142	156	173	220	280	155	160	176	202	254	32767
15.00	356	306	84	143	157	174	220	283	155	161	177	203	256	32767
15.25	359	312	85	144	157	175	221	285	157	162	178	204	258	32767
15.50	365	313	86	145	158	176	223	288	158	163	179	206	264	1328
15.75	368	314	87	145	159	178	226	292	159	164	180	208	267	32767
16.00	372	320	88	146	160	180	229	296	160	165	182	210	269	32767
16.25	378	322	89	148	161	182	231	302	161	166	184	212	272	32767
16.50	382	326	90	149	163	183	234	306	162	167	185	214	274	32767
16.75	386	332	92	149	163	184	234	310	162	167	186	215	276	32767
17.00	392	335	93	150	163	186	237	311	163	168	187	216	281	32767
17.25	394	337	94	150	164	187	240	318	164	170	189	218	283	2392
17.50	398	342	95	150	164	187	240	322	164	169	190	218	282	2515
17.75	403	345	96	151	165	188	242	325	165	169	190	218	285	2066
18.00	407	351	97	151	166	188	242	325	166	170	192	220	290	2043
18.25	411	350	98	152	167	190	245	327	166	171	193	221	288	2203
18.50	412	350	99	152	166	190	246	329	167	171	194	221	293	2116
18.75	413	351	100	152	165	189	245	333	167	171	194	221	293	2001
19.00	416	352	101	152	165	189	248	333	167	171	194	221	290	1747
19.25	420	355	102	153	166	191	250	335	168	171	195	223	295	2087
19.50	421	357	103	153	167	192	251	335	169	172	196	224	295	2170
19.75	426	364	104	154	167	193	254	332	168	172	197	225	297	1904
20.00	429	369	105	154	167	193	255	333	168	172	197	225	299	1787
20.25	433	369	106	155	167	194	256	341	170	173	199	226	301	1713
20.50	438	369	107	156	167	194	257	345	171	174	200	227	306	1990
20.75	539	448	109	157	173	220	292	469	177	181	211	252	421	1787
21.00	504	405	110	163	192	249	281	417	175	192	236	262	482	1659
21.25	521	418	111	160	192	240	285	399	173	193	230	264	447	1545
21.50	555	437	112	158	184	234	288	413	173	192	226	263	439	1656
21.75	572	444	113	154	177	227	294	421	172	188	223	262	438	1549
22.00	517	417	114	152	171	218	296	404	171	184	221	258	432	1573
22.25	503	412	115	150	167	212	297	387	172	182	217	255	412	311
22.50	503	413	116	151	165	208	292	374	172	181	217	258	406	1461
22.75	503	413	117	152	165	208	289	366	173	181	218	259	407	1572
23.00	502	412	118	152	165	208	293	370	175	181	216	259	417	1585
23.25	503	417	120	153	165	209	297	370	177	182	217	267	433	1554
23.50	505	418	121	156	166	210	299	367	178	182	216	265	426	1775
23.75	508	420	122	157	168	212	298	368	180	183	216	265	422	1863
24.00	511	423	123	157	168	213	297	367	181	184	215	267	424	1636
24.25	514	423	125	158	169	212	294	366	180	185	216	270	422	1651
24.50	515	428	126	161	168	211	294	363	179	185	215	270	427	1789
24.75	518	428	127	162	169	210	289	357	176	184	213	268	403	1738
25.00	521	430	128	163	169	210	289	358	175	184	214	266	392	624
25.25	523	433	130	162	168	210	293	354	176	184	213	266	387	1728

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January 26, 2021

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	TC #28 (°F)	TC #29 (°F)	TC #30 (°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)	TC #41 (°F)	
25.50	524	429	131	162	169	210	292	356	176	184	213	266	390	1341	
25.75	532	434	132	165	171	214	295	362	179	187	215	269	395	1930	
26.00	543	437	133	166	171	213	295	361	180	189	218	272	398	1676	
26.25	548	443	135	167	175	215	295	365	184	193	219	273	402	1556	
26.50	552	448	136	167	177	217	299	369	211	218	229	277	417	1341	
26.75	551	453	138	171	176	218	303	374	243	225	246	285	439	1314	
27.00	554	448	139	180	179	218	300	370	220	213	239	290	433	1003	
27.25	562	455	140	175	181	219	299	371	206	204	228	285	418	2265	
27.50	564	459	141	177	186	220	298	371	197	204	224	282	410	1406	
27.75	570	462	143	178	184	218	296	368	192	200	223	281	405	1431	
28.00	572	472	144	177	185	221	298	369	192	200	220	280	404	1490	
28.25	577	476	145	181	189	223	296	370	185	197	220	281	402	1556	
28.50	577	477	146	180	189	223	299	375	181	196	221	283	403	1631	
28.75	578	473	147	180	194	224	299	375	184	196	222	283	402	2059	
29.00	579	467	149	180	190	224	302	375	181	196	220	284	399	1202	
29.25	577	468	150	187	193	223	303	378	185	203	221	283	397	1348	
29.50	581	469	151	194	199	226	304	379	184	198	219	286	401	1058	
29.75	579	468	152	193	199	229	306	388	197	214	222	282	443	1448	
30.00	571	467	153	193	203	231	310	399	221	244	237	279	481	1494	
Max Temp	581	477	153	194	203	249	310	469	243	244	246	290	482	32767	
Max Allowed	1000			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		



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Project No. G104488273SAT-004a

January 26, 2021

Time (min)	TC #42 (°F)	TC #43 (°F)	TC #44 (°F)	TC #45 (°F)	TC #46 (°F)	TC #47 (°F)	TC #48 (°F)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail
								TC #49 (°F)	TC #50 (°F)	TC #51 (°F)	TC #52 (°F)	TC #53 (°F)	TC #54 (°F)	TC #55 (°F)
0.00	98	106	76	84	86	79	73	64	65	64	65	65	64	60
0.25	823	709	466	473	551	544	466	64	65	64	65	65	64	60
0.50	1217	1018	760	794	870	853	793	64	64	64	64	65	64	60
0.75	1286	1079	907	939	976	997	947	64	64	64	64	65	64	60
1.00	1333	1095	974	1003	1033	1043	993	64	64	64	64	65	64	60
1.25	1387	1127	1015	1030	1070	1072	1013	64	65	64	64	65	64	60
1.50	1372	1152	1041	1067	1158	1207	1101	64	65	64	65	65	65	60
1.75	1428	1171	1065	1080	1167	1153	1099	64	64	64	65	65	65	60
2.00	1454	1180	1090	1092	1166	1142	1077	64	64	64	65	65	65	60
2.25	1478	1190	1108	1108	1173	1143	1082	64	65	64	65	65	65	60
2.50	1496	1213	1122	1121	1188	1165	1109	65	65	64	65	65	65	60
2.75	1484	1226	1120	1137	1187	1174	1122	64	65	64	65	65	65	60
3.00	1507	1243	1135	1144	1215	1193	1127	64	65	65	65	65	65	60
3.25	1525	1265	1148	1161	1226	1214	1142	65	65	65	65	65	65	60
3.50	1530	1265	1156	1172	1231	1221	1154	65	65	67	65	65	65	60
3.75	1511	1287	1177	1183	1248	1241	1165	65	68	69	65	67	67	60
4.00	1513	1305	1180	1201	1267	1250	1175	65	67	71	65	68	68	60
4.25	1532	1322	1190	1207	1282	1268	1187	65	66	74	66	69	70	60
4.50	1538	1337	1199	1220	1284	1272	1203	65	67	76	66	71	71	60
4.75	1554	1338	1205	1227	1287	1275	1202	65	67	77	66	72	71	60
5.00	1554	1355	1223	1234	1292	1280	1207	65	67	79	66	74	73	60
5.25	1554	1381	1242	1241	1308	1297	1216	65	69	79	66	78	73	60
5.50	1545	1386	1244	1253	1311	1306	1234	66	69	83	66	78	75	60
5.75	1602	1374	1240	1257	1320	1302	1234	65	68	87	66	78	77	60
6.00	1589	1395	1243	1260	1325	1314	1237	66	68	88	66	79	78	60
6.25	1562	1400	1251	1268	1316	1300	1240	66	69	91	67	78	78	60
6.50	1602	1407	1252	1276	1321	1306	1241	66	69	86	67	81	77	60
6.75	1592	1403	1259	1277	1322	1311	1239	66	70	87	67	83	76	60
7.00	1584	1404	1263	1284	1328	1315	1244	66	74	84	67	87	75	60
7.25	1598	1384	1274	1275	1350	1327	1246	66	74	85	67	88	77	60
7.50	1585	1413	1279	1285	1339	1323	1248	66	73	84	67	88	77	60
7.75	1574	1413	1284	1284	1338	1318	1256	66	73	84	68	88	78	60
8.00	1579	1427	1294	1294	1339	1326	1256	66	81	84	67	91	79	60
8.25	1629	1415	1291	1301	1353	1329	1255	66	81	87	67	92	79	60
8.50	1605	1424	1296	1309	1354	1337	1261	67	79	85	67	94	78	60
8.75	1595	1420	1292	1307	1361	1350	1264	67	81	84	67	93	78	60
9.00	1594	1420	1291	1310	1357	1345	1269	67	79	85	67	92	79	60
9.25	1595	1445	1297	1315	1357	1340	1273	67	84	84	67	95	79	60
9.50	1614	1440	1297	1318	1366	1355	1277	67	80	86	67	92	80	60
9.75	1597	1431	1302	1321	1368	1361	1285	67	87	84	67	95	79	60
10.00	1625	1437	1300	1323	1364	1351	1282	67	90	86	68	95	79	60
10.25	1614	1444	1301	1330	1374	1360	1286	67	90	87	68	95	78	60
10.50	1611	1455	1306	1329	1382	1374	1299	67	91	83	67	96	77	60
10.75	1639	1455	1311	1339	1386	1376	1301	67	93	84	68	95	77	60
11.00	1602	1451	1309	1340	1375	1379	1304	67	94	87	68	98	77	60
11.25	1667	1470	1311	1340	1393	1373	1305	67	86	85	68	95	77	61
11.50	1627	1460	1324	1337	1386	1371	1297	67	88	83	68	94	78	61
11.75	1651	1447	1325	1342	1396	1375	1300	67	94	86	68	100	77	61
12.00	1634	1465	1323	1340	1398	1383	1312	68	100	89	68	103	78	61
12.25	1613	1462	1325	1347	1400	1390	1317	68	100	89	68	101	79	61
12.50	1652	1468	1323	1353	1404	1382	1311	67	103	90	68	101	79	61



Total Quality. Assured.

16015 Shady Falls Road
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TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

Report No.: 104488273SAT-004A R0

Date: 05/24/21

Carter Architectural Panels Inc.

Project No. G104488273SAT-004a

January 26, 2021

Time (min)	TC #42 (°F)	TC #43 (°F)	TC #44 (°F)	TC #45 (°F)	TC #46 (°F)	TC #47 (°F)	TC #48 (°F)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail
								TC #49 (°F)	TC #50 (°F)	TC #51 (°F)	TC #52 (°F)	TC #53 (°F)	TC #54 (°F)	TC #55 (°F)
12.75	1656	1473	1332	1350	1404	1387	1312	67	101	90	68	101	80	61
13.00	1649	1464	1336	1352	1411	1395	1322	67	102	89	68	100	81	61
13.25	1637	1472	1339	1353	1412	1399	1314	67	104	93	68	100	81	61
13.50	1651	1475	1349	1354	1413	1400	1315	67	105	92	69	100	81	61
13.75	1653	1476	1349	1357	1413	1397	1313	70	105	93	70	100	82	61
14.00	1643	1470	1341	1359	1421	1416	1334	69	100	91	70	100	81	61
14.25	1644	1478	1342	1365	1418	1402	1329	71	106	92	70	100	82	61
14.50	1625	1492	1345	1365	1413	1403	1336	71	106	89	71	97	80	61
14.75	1628	1487	1345	1372	1418	1409	1342	72	106	92	71	98	81	61
15.00	1690	1477	1345	1368	1424	1411	1341	73	104	91	70	97	81	61
15.25	1710	1511	1369	1384	1459	1440	1354	72	105	91	71	98	80	61
15.50	1733	1552	1389	1415	1472	1459	1387	72	106	93	71	99	81	61
15.75	1712	1571	1395	1420	1473	1461	1399	73	106	93	71	98	82	61
16.00	1711	1556	1403	1422	1469	1467	1398	72	105	95	71	96	82	61
16.25	1720	1548	1411	1423	1492	1481	1392	73	108	93	72	97	82	61
16.50	1692	1573	1422	1422	1489	1484	1409	73	104	93	71	97	82	61
16.75	1719	1603	1427	1430	1489	1481	1425	73	105	94	71	99	83	61
17.00	1723	1585	1431	1433	1496	1489	1422	73	104	96	70	97	82	61
17.25	1702	1588	1433	1431	1501	1495	1433	72	102	92	71	93	83	62
17.50	1738	1569	1435	1430	1505	1491	1427	73	103	93	71	94	83	62
17.75	1675	1584	1442	1432	1505	1509	1437	73	100	91	71	93	81	62
18.00	1719	1574	1442	1434	1514	1510	1445	75	98	93	70	92	79	62
18.25	1697	1595	1450	1442	1506	1506	1442	73	99	93	71	91	83	62
18.50	1704	1589	1448	1447	1508	1506	1452	73	101	92	70	92	82	62
18.75	1727	1607	1455	1451	1519	1515	1442	74	99	92	69	87	81	62
19.00	1773	1596	1450	1468	1529	1517	1445	74	97	93	70	87	81	62
19.25	1770	1602	1451	1463	1532	1524	1452	74	97	90	70	86	80	62
19.50	1747	1580	1451	1461	1523	1519	1456	72	98	88	70	87	78	62
19.75	1732	1603	1456	1461	1532	1531	1454	76	102	87	71	87	78	62
20.00	1762	1589	1459	1461	1528	1526	1466	74	100	88	72	88	78	62
20.25	1752	1627	1466	1464	1531	1527	1475	75	103	87	71	88	78	62
20.50	1779	1603	1469	1464	1546	1541	1463	75	101	86	72	90	76	62
20.75	1771	1601	1470	1472	1552	1539	1469	75	105	83	73	86	76	62
21.00	1761	1621	1472	1475	1547	1539	1468	75	99	82	71	89	75	62
21.25	1743	1620	1479	1476	1562	1555	1477	75	96	81	71	80	75	63
21.50	1749	1629	1478	1482	1550	1544	1479	75	94	80	71	86	75	63
21.75	1738	1624	1486	1479	1558	1554	1482	73	90	79	71	80	74	63
22.00	1780	1623	1489	1482	1559	1557	1474	74	95	79	71	84	74	63
22.25	1774	1633	1492	1494	1571	1566	1479	74	92	78	71	81	74	63
22.50	1773	1649	1492	1502	1561	1552	1484	74	84	78	71	80	74	63
22.75	1785	1658	1495	1504	1568	1558	1488	75	86	80	71	80	74	63
23.00	1779	1642	1495	1500	1565	1556	1490	77	97	78	73	83	73	63
23.25	1744	1635	1499	1497	1561	1568	1502	76	94	76	72	83	73	63
23.50	1782	1660	1504	1503	1583	1574	1500	75	94	79	72	82	72	63
23.75	1785	1642	1508	1504	1576	1568	1502	75	98	78	72	85	73	64
24.00	1762	1646	1507	1503	1570	1572	1513	75	94	78	72	84	74	64
24.25	1736	1653	1512	1503	1570	1579	1517	74	86	77	71	81	72	64
24.50	1771	1648	1507	1505	1599	1596	1513	75	86	79	71	81	72	64
24.75	1782	1651	1509	1509	1591	1582	1514	75	85	80	71	79	74	64
25.00	1790	1660	1516	1509	1615	1601	1513	76	86	78	73	80	73	64
25.25	1798	1720	1529	1536	1627	1628	1544	76	89	78	71	81	73	64



Total Quality. Assured.

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Report No.: 104488273SAT-004A R0

Date: 05/24/21

Carter Architectural Panels Inc.

Project No. G104488273SAT-004a

January 26, 2021

Time (min)	TC #42 (°F)	TC #43 (°F)	TC #44 (°F)	TC #45 (°F)	TC #46 (°F)	TC #47 (°F)	TC #48 (°F)	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail
								TC #49 (°F)	TC #50 (°F)	TC #51 (°F)	TC #52 (°F)	TC #53 (°F)	TC #54 (°F)	TC #55 (°F)
25.50	1818	1694	1538	1541	1629	1622	1568	77	87	80	72	81	74	64
25.75	1815	1713	1552	1546	1649	1640	1568	76	90	79	73	83	74	64
26.00	1806	1698	1554	1549	1664	1664	1587	76	89	79	72	82	74	65
26.25	1821	1700	1564	1552	1650	1655	1595	78	92	79	73	83	73	65
26.50	1823	1691	1562	1553	1657	1656	1588	78	94	78	74	85	73	65
26.75	1822	1716	1567	1560	1668	1671	1598	75	87	78	73	83	73	65
27.00	1879	1727	1568	1577	1672	1668	1594	77	94	77	73	80	73	65
27.25	1847	1753	1576	1582	1672	1675	1603	77	86	80	73	80	74	65
27.50	1864	1736	1583	1579	1681	1673	1600	78	95	78	73	83	75	65
27.75	1791	1740	1581	1571	1672	1679	1622	79	89	79	74	82	75	65
28.00	1858	1744	1585	1581	1677	1681	1615	77	94	79	73	85	74	66
28.25	1865	1739	1589	1583	1681	1684	1615	80	94	79	73	85	75	66
28.50	1891	1741	1588	1593	1698	1699	1613	80	88	80	75	81	74	66
28.75	1890	1747	1593	1595	1684	1677	1615	78	99	80	73	82	75	66
29.00	1877	1747	1589	1591	1686	1679	1613	79	89	79	73	81	75	66
29.25	1890	1774	1594	1600	1702	1703	1621	80	91	80	74	83	75	66
29.50	1884	1764	1598	1607	1710	1712	1625	79	93	80	74	83	74	66
29.75	1866	1756	1605	1602	1715	1712	1641	79	89	81	74	83	75	67
30.00	1865	1730	1598	1599	1709	1696	1630	81	89	80	74	83	75	67
Max Temp	1891	1774	1605	1607	1715	1712	1641	81	108	96	75	103	83	67
Max Allowed								564	565	564	565	565	564	810



Total Quality. Assured.

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Date: 05/24/21

Carter Architectural Panels Inc.

Project No. G104488273SAT-004a

January 26, 2021

Time (min)	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 #56 (°F)	TC #57 (°F)	TC #58 (°F)	TC #59 (°F)	TC #60 (°F)	TC #61 (°F)	TC #62 (°F)	TC #63 (°F)	TC #64 (°F)	TC #65 (°F)	TC #66 (°F)	TC #67 (°F)
0.00	61	61	62	62	62	63	64	63	61	61	61	60
0.25	60	61	62	62	62	63	64	63	61	61	61	60
0.50	60	60	62	62	62	64	64	64	62	61	61	61
0.75	60	61	62	62	62	63	64	64	61	61	61	61
1.00	60	60	62	62	62	64	64	64	62	61	61	60
1.25	60	60	62	62	62	64	64	64	62	61	61	60
1.50	60	60	62	62	62	64	64	64	61	61	61	60
1.75	61	61	62	62	62	64	64	64	61	61	61	61
2.00	60	60	62	62	62	64	64	64	62	61	61	61
2.25	61	61	62	62	62	64	64	64	62	61	61	61
2.50	60	60	62	62	62	64	64	64	62	61	61	60
2.75	61	61	62	62	62	64	64	64	61	61	61	60
3.00	61	61	62	62	62	64	64	64	62	61	61	61
3.25	60	61	62	62	62	64	64	64	62	61	61	61
3.50	61	61	62	62	63	64	64	64	62	61	61	61
3.75	60	61	62	62	63	64	64	64	62	61	61	60
4.00	61	61	62	62	63	64	64	64	62	61	61	60
4.25	61	61	62	62	63	64	64	64	62	61	61	60
4.50	61	61	62	62	64	64	64	64	62	61	61	61
4.75	61	61	62	62	64	64	64	64	62	61	61	61
5.00	61	61	62	62	64	64	64	64	62	61	61	61
5.25	61	61	62	62	65	64	64	64	62	61	61	61
5.50	61	61	62	62	65	64	64	64	62	61	61	61
5.75	61	61	62	62	65	64	64	64	62	61	61	61
6.00	61	61	62	62	65	64	64	64	62	61	61	61
6.25	61	61	62	62	66	64	64	64	62	61	61	61
6.50	61	61	62	62	66	64	64	64	62	61	61	61
6.75	61	61	62	62	66	64	64	64	62	61	61	61
7.00	61	61	62	62	67	64	64	64	62	61	61	61
7.25	61	61	62	62	67	64	64	64	62	61	61	61
7.50	61	61	62	62	68	64	64	64	62	61	61	61
7.75	61	61	62	63	68	64	64	64	62	61	61	61
8.00	61	61	62	63	69	64	64	64	62	61	61	61
8.25	61	61	62	63	69	64	64	64	62	61	61	61
8.50	61	61	62	63	70	64	64	64	62	61	61	61
8.75	61	61	63	63	70	64	65	64	62	61	61	61
9.00	61	61	63	63	71	64	65	64	62	61	61	61
9.25	61	61	63	63	72	64	65	64	62	61	61	61
9.50	61	61	63	63	72	65	65	64	62	62	62	61
9.75	61	61	63	63	73	65	65	64	62	62	62	61
10.00	61	61	63	63	73	65	65	64	62	62	62	61
10.25	61	61	63	63	74	65	65	64	62	62	62	61
10.50	61	61	63	63	75	65	65	64	62	62	62	61
10.75	61	61	63	63	76	65	65	64	62	62	62	61
11.00	61	61	63	63	76	65	65	64	62	62	62	61
11.25	61	61	63	64	77	65	65	64	62	62	62	61
11.50	61	61	63	64	78	65	65	64	62	62	62	61
11.75	61	61	64	64	79	66	65	64	62	62	62	61
12.00	61	61	64	64	79	66	65	64	62	62	62	61
12.25	61	61	64	64	80	66	65	64	62	62	62	61
12.50	61	61	64	64	81	66	65	64	62	62	62	61



Total Quality. Assured.

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Project No. G104488273SAT-004a

January 26, 2021

Time (min)	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 #56 (°F)	TC #57 (°F)	TC #58 (°F)	TC #59 (°F)	TC #60 (°F)	TC #61 (°F)	TC #62 (°F)	TC #63 (°F)	TC #64 (°F)	TC #65 (°F)	TC #66 (°F)	TC #67 (°F)
12.75	61	61	64	65	82	66	65	65	62	62	62	61
13.00	61	61	64	65	82	66	65	65	62	62	62	61
13.25	61	61	64	65	83	66	65	65	62	62	62	62
13.50	61	61	64	65	84	67	66	65	62	62	63	62
13.75	62	61	64	65	84	67	66	65	62	62	63	62
14.00	62	61	65	65	85	67	66	65	62	62	63	62
14.25	62	61	65	66	86	67	66	65	62	62	63	62
14.50	62	62	65	66	87	67	66	65	62	62	63	62
14.75	62	61	65	66	87	67	66	65	62	62	63	62
15.00	62	61	65	66	88	68	66	65	62	62	64	62
15.25	62	62	65	67	89	68	66	65	62	62	64	62
15.50	62	62	65	67	89	68	67	65	62	62	64	62
15.75	62	62	65	67	90	68	67	65	62	62	64	62
16.00	62	62	66	67	91	69	67	66	63	62	64	62
16.25	62	62	66	68	91	69	67	66	63	62	64	62
16.50	62	62	66	68	92	69	67	66	63	62	64	63
16.75	62	62	66	68	93	69	67	66	63	62	65	63
17.00	62	62	66	69	93	70	68	66	63	63	65	63
17.25	62	62	67	69	94	70	68	66	63	63	65	63
17.50	62	62	67	69	95	70	68	66	63	63	65	63
17.75	63	62	67	70	95	71	68	66	63	63	65	63
18.00	63	62	67	70	96	71	68	66	63	63	65	63
18.25	63	62	67	70	97	71	68	67	63	63	66	63
18.50	63	62	67	71	97	71	68	67	63	63	66	64
18.75	63	62	68	71	98	72	68	67	63	63	66	64
19.00	63	62	68	71	99	72	69	67	63	63	66	64
19.25	63	63	68	72	99	72	69	67	63	63	66	64
19.50	63	63	68	72	100	73	69	67	64	63	67	64
19.75	63	63	68	73	101	73	69	67	64	63	67	64
20.00	64	63	68	73	101	74	69	68	64	63	67	64
20.25	64	63	69	74	102	74	69	68	64	64	67	65
20.50	64	63	69	74	103	74	70	68	64	64	68	65
20.75	64	63	69	75	104	75	70	68	64	64	68	65
21.00	64	63	69	75	105	76	70	68	64	64	68	65
21.25	64	64	70	76	106	76	70	68	64	64	68	65
21.50	64	64	70	76	106	76	70	68	64	64	69	65
21.75	64	64	70	76	107	77	71	68	64	64	69	66
22.00	64	64	70	77	108	78	71	69	64	64	69	66
22.25	65	64	70	77	109	78	71	69	65	64	70	66
22.50	65	64	71	78	110	79	71	69	65	64	70	66
22.75	65	64	71	78	111	79	71	69	65	64	70	66
23.00	65	64	71	79	112	80	72	70	65	65	70	66
23.25	65	64	71	79	113	80	72	70	65	65	71	67
23.50	65	64	71	80	114	81	72	70	65	65	71	67
23.75	65	65	72	80	115	81	72	70	65	65	71	67
24.00	66	65	72	81	116	82	73	70	65	65	71	67
24.25	66	65	72	81	117	83	73	70	65	65	72	67
24.50	66	65	73	82	118	83	73	70	65	65	72	68
24.75	66	65	73	83	119	84	73	70	66	65	72	68
25.00	66	65	73	83	121	85	73	71	66	66	73	68
25.25	66	66	73	84	122	86	74	71	66	66	73	68



Total Quality. Assured.

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TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

Report No.: 104488273SAT-004A R0

Date: 05/24/21

Carter Architectural Panels Inc.

Project No. G104488273SAT-004a

January 26, 2021

Time (min)	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 #56 (°F)	TC #57 (°F)	TC #58 (°F)	TC #59 (°F)	TC #60 (°F)	TC #61 (°F)	TC #62 (°F)	TC #63 (°F)	TC #64 (°F)	TC #65 (°F)	TC #66 (°F)	TC #67 (°F)
25.50	67	66	74	84	123	86	74	71	66	66	73	68
25.75	67	66	74	85	124	87	74	71	66	66	74	69
26.00	67	66	74	85	125	88	74	72	66	66	74	69
26.25	67	66	75	86	126	88	75	72	67	66	75	69
26.50	67	66	75	86	127	89	75	72	67	66	75	70
26.75	67	66	75	87	128	90	75	72	67	66	75	70
27.00	68	67	75	88	129	90	75	73	67	67	76	70
27.25	68	67	76	88	130	91	76	73	67	67	76	70
27.50	68	67	76	89	131	92	76	73	67	67	76	70
27.75	68	67	76	89	132	93	76	73	67	67	77	71
28.00	68	67	76	90	133	93	77	73	68	67	77	71
28.25	68	67	77	91	134	94	77	74	68	67	78	71
28.50	69	68	77	91	135	95	77	74	68	68	78	72
28.75	69	68	78	92	136	96	77	74	68	68	79	72
29.00	69	68	78	92	138	96	78	75	68	68	79	72
29.25	69	68	78	93	139	97	78	75	68	68	80	73
29.50	69	68	78	94	140	98	78	75	68	68	80	73
29.75	70	68	79	94	141	98	78	75	69	68	80	73
30.00	70	69	79	95	142	99	79	75	69	68	81	73
Max Temp	70	69	79	95	142	99	79	75	69	68	81	73
Max Allowed	811	811	812	812	812	813	814	813	811	811	811	810



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Report No.: 104488273SAT-004A R0

Date: 05/24/21

SECTION 15

DRAWINGS

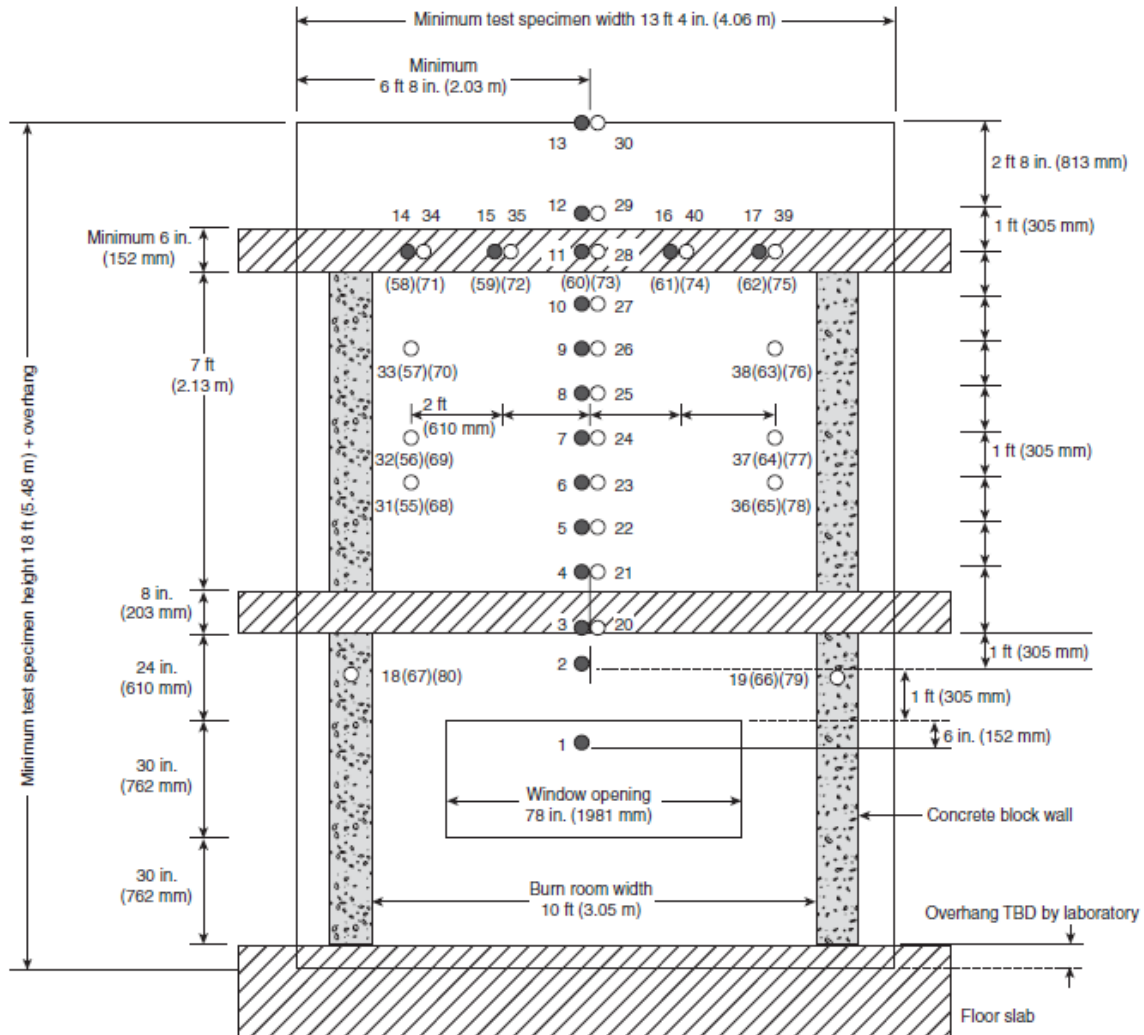
The "As-Built" drawings for the Carter Architectural Panels Inc. Fire resistance testing; Sheet Nos. 1-9; which follow have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

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Date: 05/24/21

Standard TC Locations

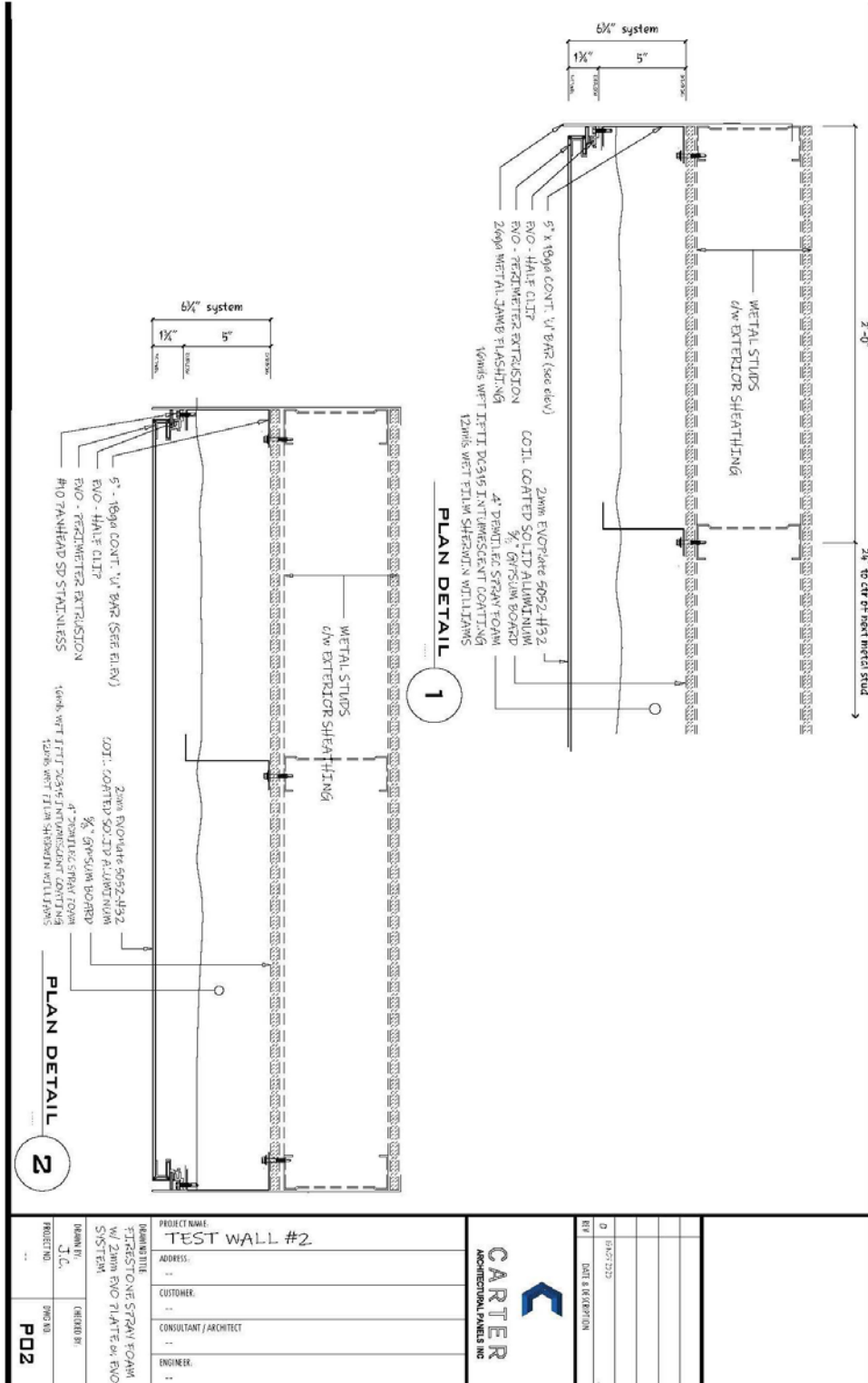


- Thermocouples — 1 in. (25 mm) from exterior wall surface
- Thermocouples — In the wall cavity air space or the insulation, or both, as shown in Figure 6.1(b) Details A through I.
- () Thermocouples — Additional thermocouples in the insulation or the stud cavity, or both, where required for the test specimen construction being tested, as shown in Figure 6.1(b) Details C through I.

TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

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Date: 05/24/21



TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

Report No.: 104488273SAT-004A R0

Date: 05/24/21

5/8" system

1 3/4"

5"

2mm EVOFORTE 5052 #32
LOTL COATED SOLID ALUMINIUM
3/4" GYPSUM BOARD
4" PENWILLET SPRAY FOAM
12mm WET FILM INSULWASCENT COATING
5" x 10mm VERTICAL I-BAR (SEE ELEV.)

WETAL SILLING 2x 2 1/2"
w/ EXT. SHEATHING

EVO - FULL CLIP
EVO - PERIMETER EXTRUSION (TYP)
#10 FRAMHEAD S.D. STAINLESS

3/4" I-JOIST

PLAN DETAIL 3

PROJECT NAME:	TEST WALL #2
ADDRESS:	
CUSTOMER:	
CONSULTANT / ARCHITECT:	
ENGINEER:	

REVISION	DATE & REVISION
0	05/25/21

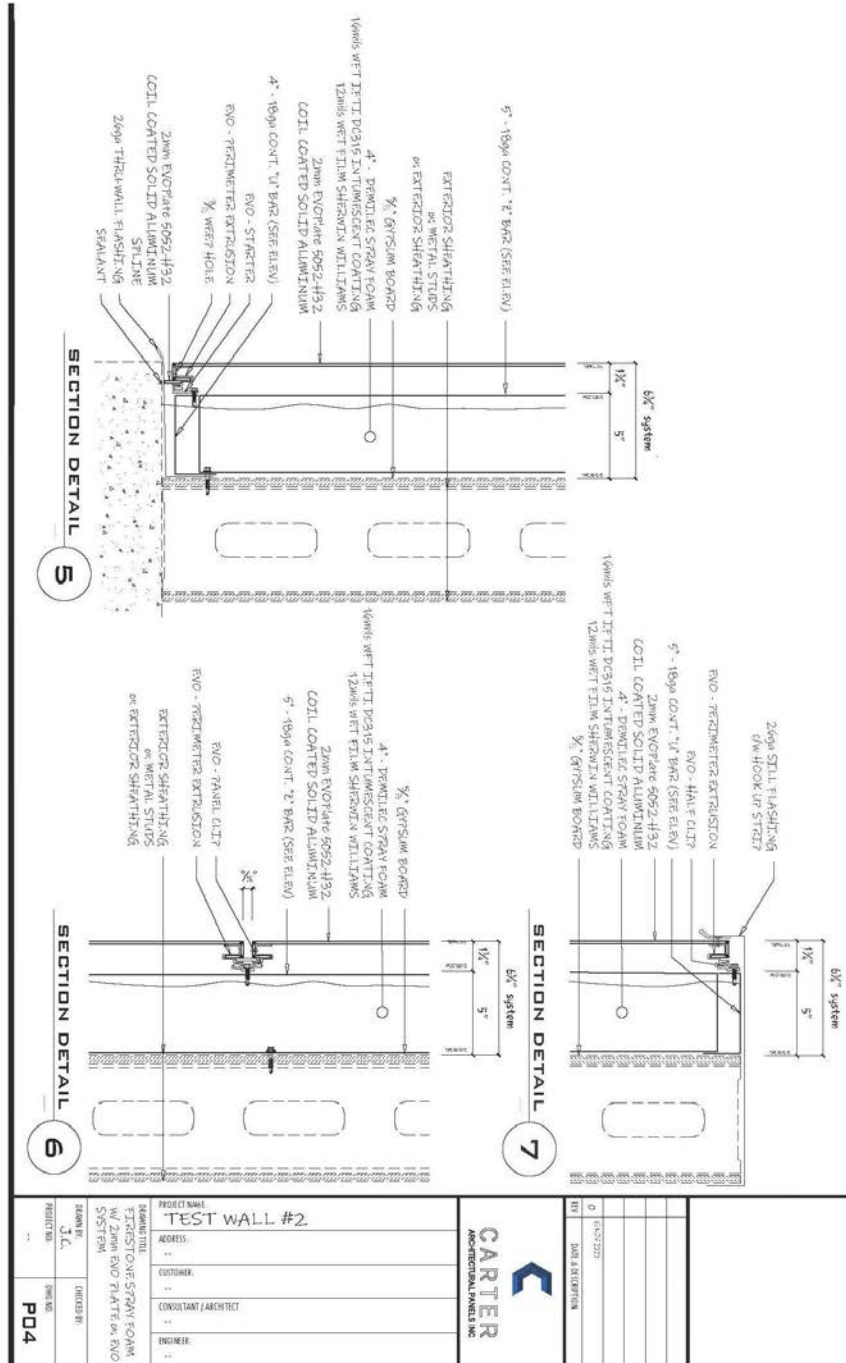
SKANNED BY:	J.C.
PROJECT NO.:	PO3

CARTER
ARCHITECTURAL PANELS INC

TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

Report No.: 104488273SAT-004A R0

Date: 05/24/21

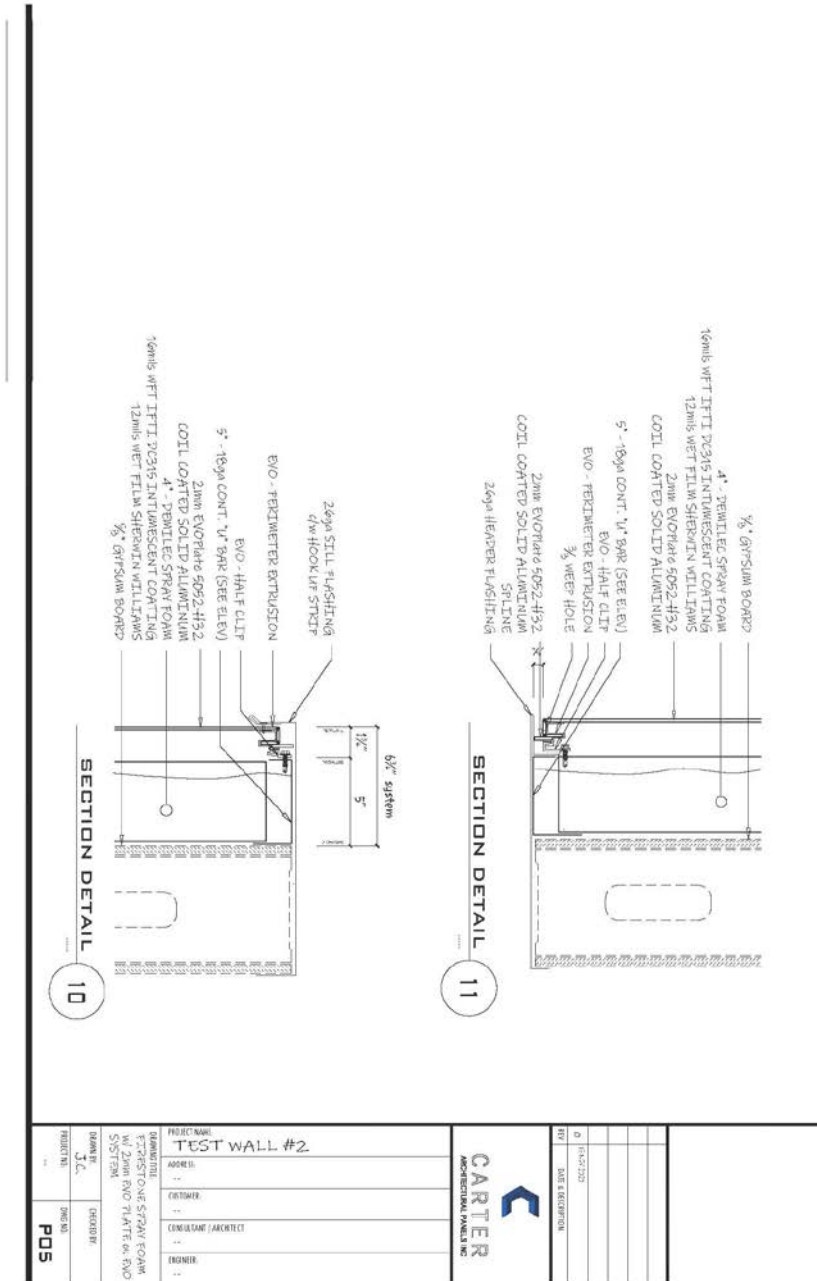


PROJECT NAME	TEST WALL #2
ADDRESS	
CUSTOMER	
CONSULTANT / ARCHITECT	
ENGINEER	
REMARKS	TEST WALL #2
TESTER	J.C.
DATE & RECEIPT	
PROJECT NO.	PD4

TEST REPORT FOR CARTER ARCHITECTURAL PANELS INC.

Report No.: 104488273SAT-004A R0

Date: 05/24/21





Total Quality. Assured.

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REVISION #	DATE	SECTION	REVISION
0	05/24/21	N/A	Original Report Issue