

HOOVER ARCHITECTURAL SOLUTIONS, LLC TEST REPORT

SCOPE OF WORK

NFPA 285 STANDARD FIRE TEST METHOD FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS OF EXTERIOR WALL ASSEMBLIES CONTAINING REYNOBOND 4MM FR ACM PANELS

REPORT NUMBER

G106406856SAT-002 R0

TEST DATE

01/29/26

ISSUE DATE

03/10/26

[REVISED DATE]

ORIGINAL

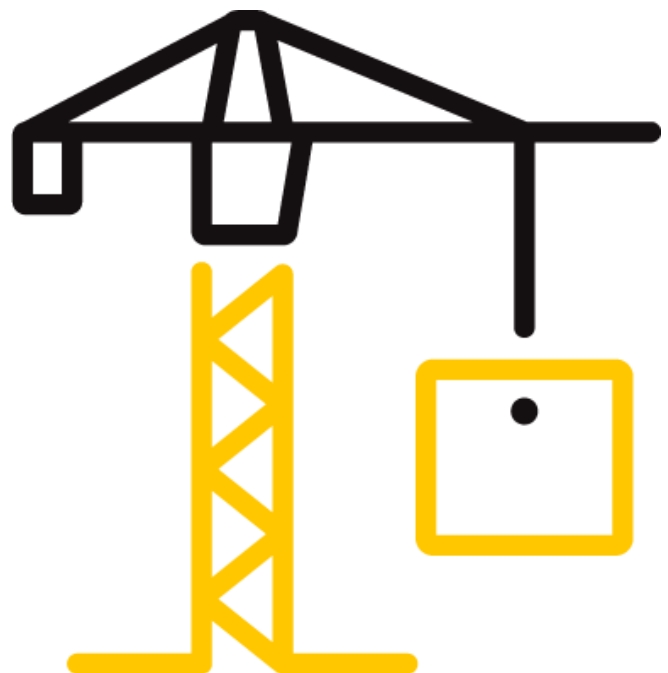
PAGES

44

DOCUMENT CONTROL NUMBER

GFT-OP-10c (22 MAY 2025)

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TEST REPORT FOR HOOVER ARCHITECTURAL SOLUTIONS, LLC

Report No.: G106406856SAT-002 R0

Date: 03/10/26

REPORT ISSUED TO

HOOVER ARCHITECTURAL SOLUTIONS, LLC

50 Industrial Boulevard
Eastman, GA 31023
USA

SECTION 1

SCOPE

Intertek Testing Services NA Ltd. dba Intertek Building & Construction (B&C) was contracted by **Hoover Architectural Solutions, LLC**, 50 Industrial Boulevard, Eastman, GA 31023, to perform testing in accordance with **NFPA 285-2025**, *Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components*, on their 4mm FR ACM panels. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek Building & Construction 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.

For INTERTEK B&C:

COMPLETED BY:	Klarissa Gonzalez
TITLE:	Project Engineer – Fire Resistance
SIGNATURE:	
DATE:	03/03/26

REVIEWED BY:	Abel de Hoyos
TITLE:	Manager – Fire Resistance
SIGNATURE:	
DATE:	03/10/26

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SECTION 2

SUMMARY OF TEST RESULTS

The assembly described and tested in this report **met** the Condition of Acceptance of NFPA 285-2025.

SECTION 3

TEST METHOD(S)

The specimen was evaluated in accordance with the following:

NFPA 285-2025, *Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components*

SECTION 4

MATERIAL SOURCE/INSTALLATION

The ACM panels and other materials were received at Intertek B&C test facility in Elmendorf, Texas, USA on 12/29/25 and 01/27/26 and were given Sample ID No. SAT2512291712-001 and SAT2512291712-001 through 003. The panels were witnessed by Intertek B&C personnel. The panels were witnessed during production and tagged prior to shipment on 12/16/25, (Reference Intertek B&C Product Sampling/Witnessing Form No. G106406856, dated 12/16/25). Aside from the base wall, the rest of the assembly and panels were installed by client provided subcontractor.

SECTION 5

EQUIPMENT

ASSET #	DESCRIPTION	CAL DUE DATE
10319133	Thermohydrometer	02/10/26
170199540	Stopwatch	06/02/26
99LE006	DAQ	04/10/26

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SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Trey Jones	Hoover Architectural Solutions, LLC
Amanda Woodard	Hoover Architectural Solutions, LLC
Steven Gaynor	Pivoth Corp.
Abel de Hoyos	Intertek B&C
Juan J Flores	Intertek B&C
Klarissa Gonzalez	Intertek B&C

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 285-2025 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 air space. The window burner was positioned in the center of the opening of the wall assembly. Testing was performed on 01/29/2026 in accordance with NFPA 285-2025 test method. The ambient conditions were 70.3°F and 48.1% 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 3:10 pm with the burners on for 30 minutes. All observations are recorded on the table located in Section 8. The apparatus is under calibrated conditions when the time average temperatures and the time average heat flux readings obtained for calibration wall match the requirements of Table 1.1.11 of NFPA 285-2025. Calibration data for the test furnace which was conducted on 10/24/2025 is displayed below.

Calibration Date:	10/24/2025
Window Burner Distance from Wall:	3.5 in.

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Table 1 – Average Burner Output and Heat Flux Information

TIME INTERVAL (MIN:SEC)	Gas Flow Values		Heat Flux Locations		
	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	16.3	0.0	1.1	1.3*	0.7
5:00-10:00	16.2	5.4	2.0	1.9	1.4
10:00-15:00	16.2	5.9	2.5	2.3	1.5*
15:00-20:00	17.2	7.3	3.4	3.4	2.3
20:00-25:00	17.2	7.8	4.0	4.3	2.6
25:00-30:00	17.7	8.2	4.2	4.5	2.6*

Table 2 – Average Time Temperature Values

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	1064	1154	559	801	725	632	541	490
5:00-10:00	1330	1354	882	997	971	865	749	684
10:00-15:00	1389	1378	983	1040	1018	917	809	754
15:00-20:00	1500	1507	1097	1110	1150	1064	962	903
20:00-25:00	1551	1549	1150	1176	1226	1103	981	931
25:00-30:00	1622	1651	1212	1229	1303	1195	1061	992

*Heat flux value 0.1 W/cm² outside allowable limit. The heat flux was verified to be within calibration limits during the previous calibration runs (10/23/25) conducted under identical burner position and gas flow setpoints.

SECTION 8

TEST SPECIMEN DESCRIPTION

Interior Cladding – 5/8-in. Type X gypsum.

Framing – Framing consisted of 6-in. × 18-ft. × 18-GA steel studs fastened to 14-ft × 6-in. × 18 GA steel track at the top and the bottom of the assembly using #6-1/2-in. long self-drilling screws per stud flange. 18-ft × 6-in., 18 GA steel studs were placed vertically along the full height and space 16-in. oc.

Exterior Cladding – 1/2-in. DensGlass Gold Exterior Sheathing.

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Weather Barrier – Henry Metal Clad 705FR LT was applied to the horizontally. A roll-on was added to the exterior cladding

Subgirt – 2-in. 16 GA steel z-girts were fastened to the DensGlass with 5/16-in. hex head self-driving screws at 16-in. o.c. Barrier Bond was used for sealing from the z-girt to the Henry weather barrier.

Exterior Insulation – 2-in. thick Rockwool Cavity Rock 4.3pcf was installed horizontally and friction fitted between z-girts. Then Tenmat FF 102-50 Fire blocking material measuring 28-in. by 3-in. was fastened to the exterior of the z-girt with 1/4-in. 1-1/2-in. hex head screw at 10-in. o.c.

Clips – Clips were fastened to the z-girt with #10-16 x 2-1/2-in. PFH TEK-3 screws.

Panels – Reynobond® 4mm FR ACM panels were used. The CEI R4000 system was part of the panels and was slid into the clips. A 4mm spline was used between panels having a nominal 1/2-in. exposure of the spline/gap between panels.

Window Flashing – BR-03 0.04-in. thick aluminium flashing by CEI was used and installed by subcontractors. Refer to assembly drawings in **Section 14**.

SECTION 9

TEST RESULTS

TIME (Min: Sec)	OBSERVATIONS
00:00	Test Started at 3:10 PM
00:34	Top flashing warping
01:28	Flame tips out of window
03:20	Charring of panels at 2-ft
05:00	Window burner on
08:30	Right pane; peeling off
10:00	Panels peeling off at 2-ft
18:00	Panel melting above window
19:25	Flaming at 3-ft
20:00	Flaming at 5-ft
23:00	Flaming at 6-ft
27:30	Flaming at 7-ft
30:00	Test Terminated at 3:40 PM

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SECOND FLOOR OBSERVATIONS

TIME (Min: Sec)	OBSERVATIONS
00:00	Test Started at 3:10 PM
05:00	No smoke in room
05:08	Minimal smoke at floor joint
10:00	Visibility at 100%
15:00	Visibility at 70%
20:00	Visibility at 50%
25:00	Visibility at 80%
30:00	Visibility at 90% – Test Terminated at 3:40 PM

SECTION 10

CONCLUSION

The assembly described containing 4mm FR ACM Panels **met** the Conditions of Acceptance of NFPA 285-25.

Test Requirements	Test Results	PASS/FAIL
Flames did not reach 10 ft above the window opening header	Flames did not reach 10 ft above the window opening header	PASS
Flames did not reach a lateral distance of 5 ft from the vertical centerline	Flames did not reach a lateral distance of 5 ft from the vertical centerline	PASS
Flames did not propagate beyond the limits of the first story test room	Flames did not propagate beyond the limits of the first story test room	PASS
No visible flaming in the second story test room	No visible flaming in the second story test room	PASS
TCs 11 and 14-17 (1000°F)	TCs 11 and 14-17 did not exceed their 1000°F limit	PASS
TCs 18-19, 28, and 31-40 (1000°F) Air cavity temps	TCs 18, 19, 28, and 31-40 did not exceed their 1000°F limit	PASS
TCs 49-54 (500°F above ambient) 2 nd floor temps	TCs 49-54 did not exceed 500°F above their ambient temperatures	PASS

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SECTION 11

PHOTOGRAPHS



Photo No. 1

Fire Block Tenmat FF 102-50 Received



Photo No. 2

Shipment Received

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Photo No. 3
Shipment Received



Photo No. 4
Shipment Received

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Photo No. 5

Roll on Primer and Metal Clad 705FR install



Photo No. 6

Z-girts and Mineral Wool install – Henry 925 Sealant used for Z-girts

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Photo No. 7

Clips fastened to the girts



Photo No. 8

Panels install complete

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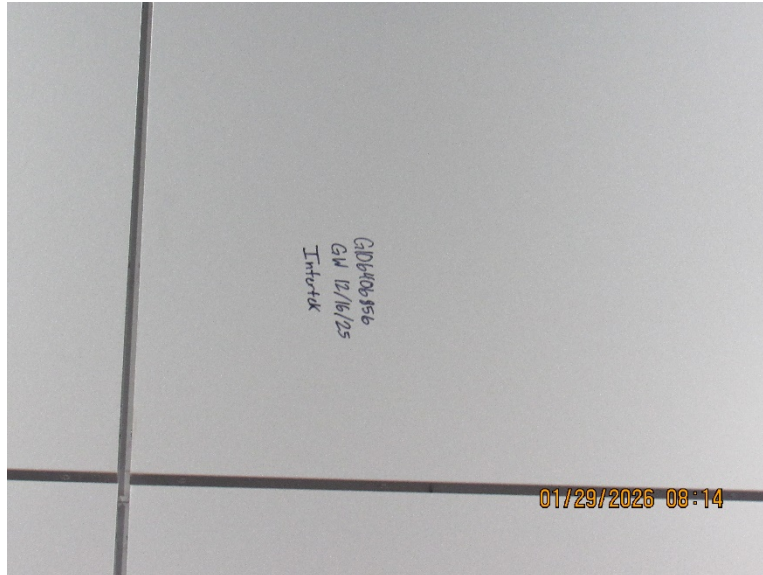


Photo No. 9
Witnessing signature on panels



Photo No. 10
Flashing installed by client

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Photo No. 11
Second floor Prior to testing



Photo No. 12
Wall Prior to testing

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Photo No. 13
Start of Test



Photo No. 14
Flames out the window

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Photo No. 15
Window burner on



Photo No. 16
Panels above the header opened up

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Photo No. 17
Flame tips at 7.5-ft



Photo No. 18
Post-Test

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Photo No. 19
Post-Test – Charr pattern

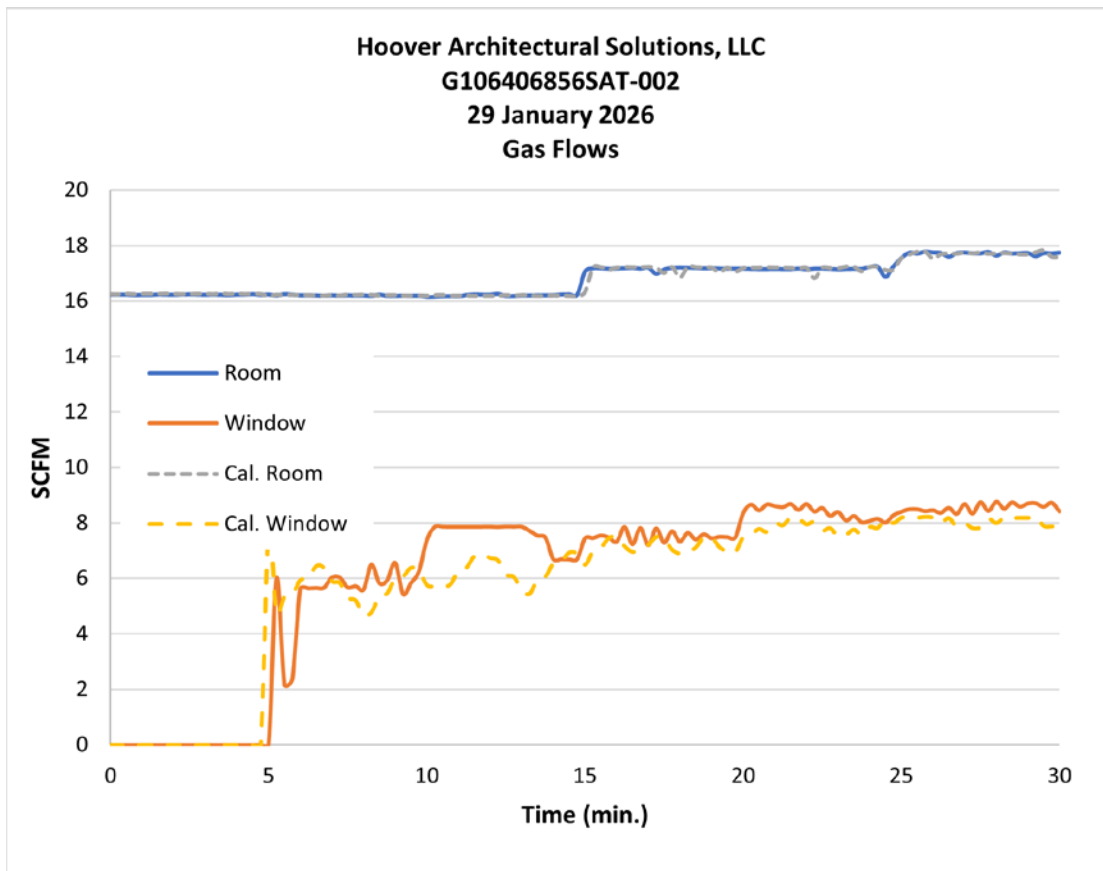
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SECTION 12

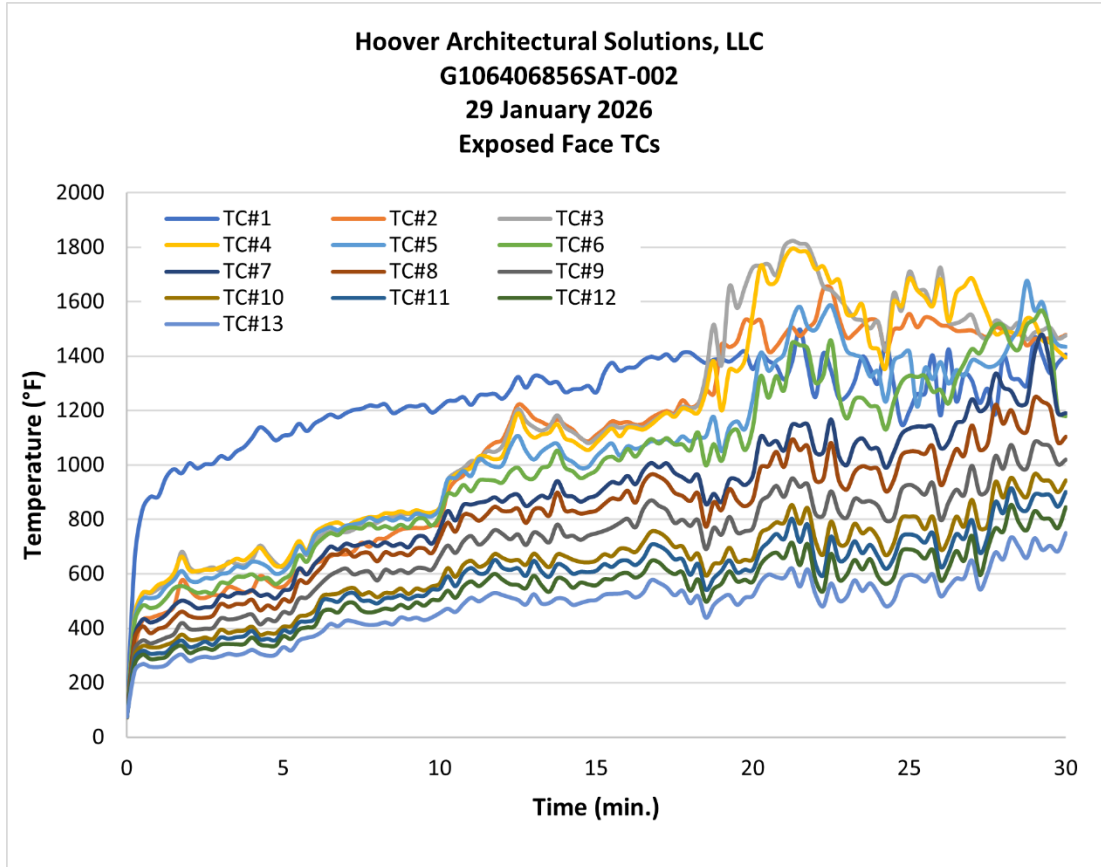
DATA (GRAPHICAL AND TABULAR)



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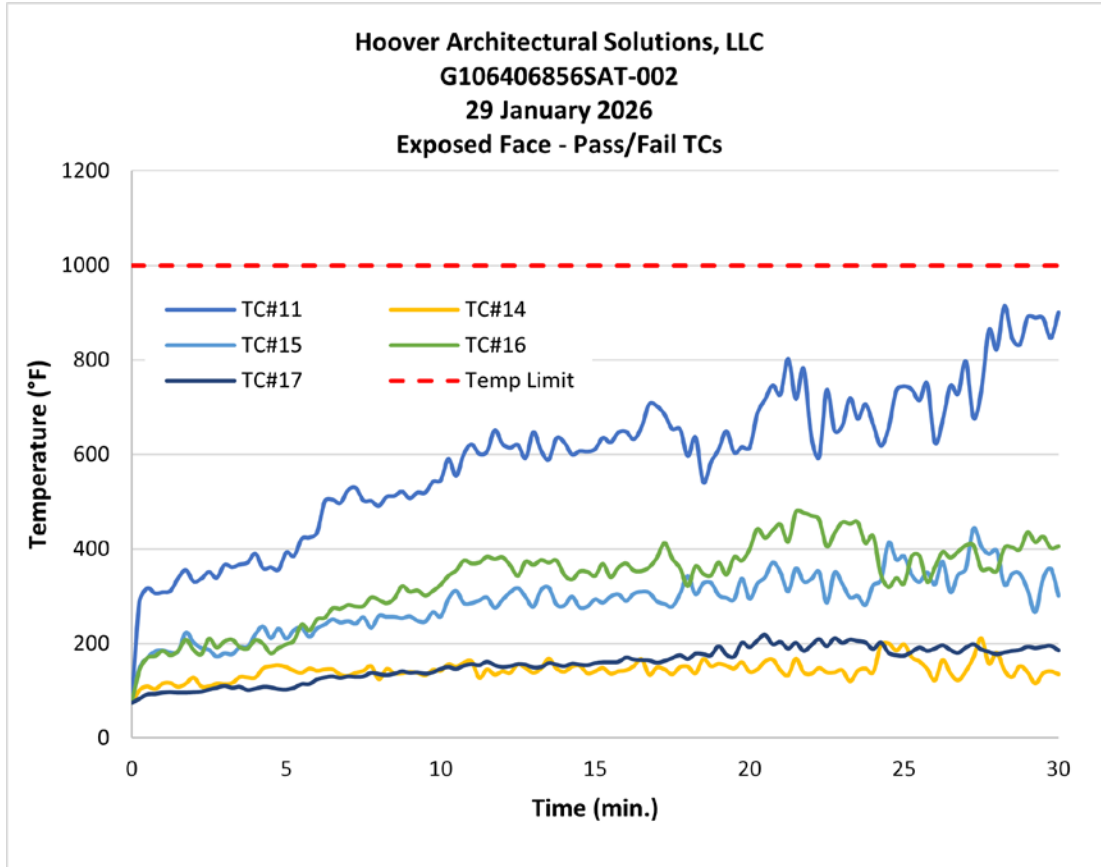
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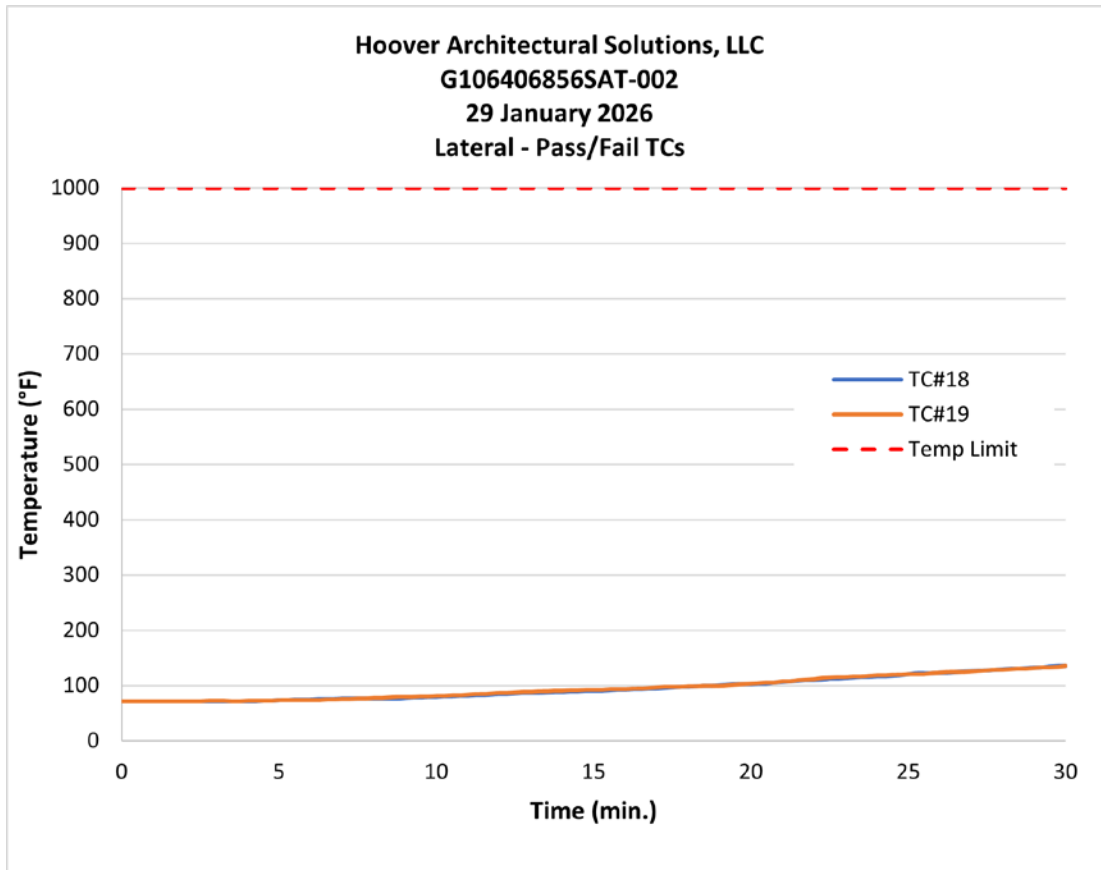
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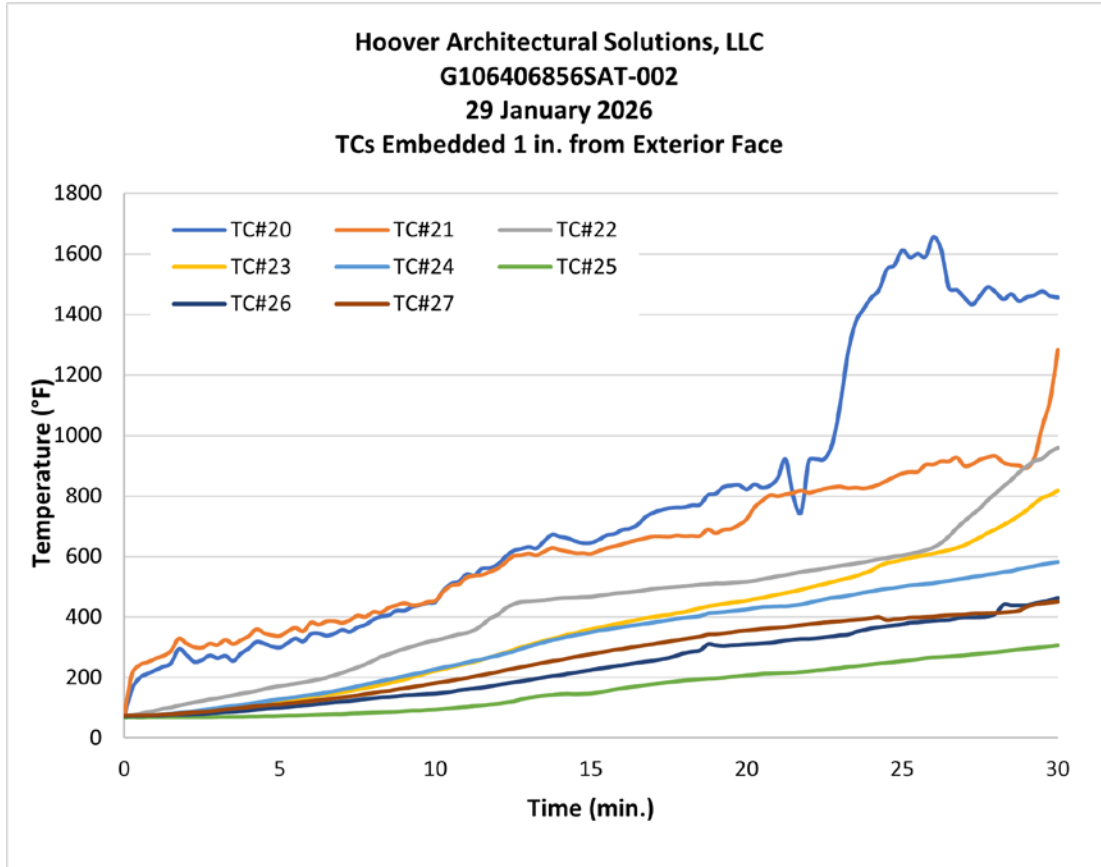
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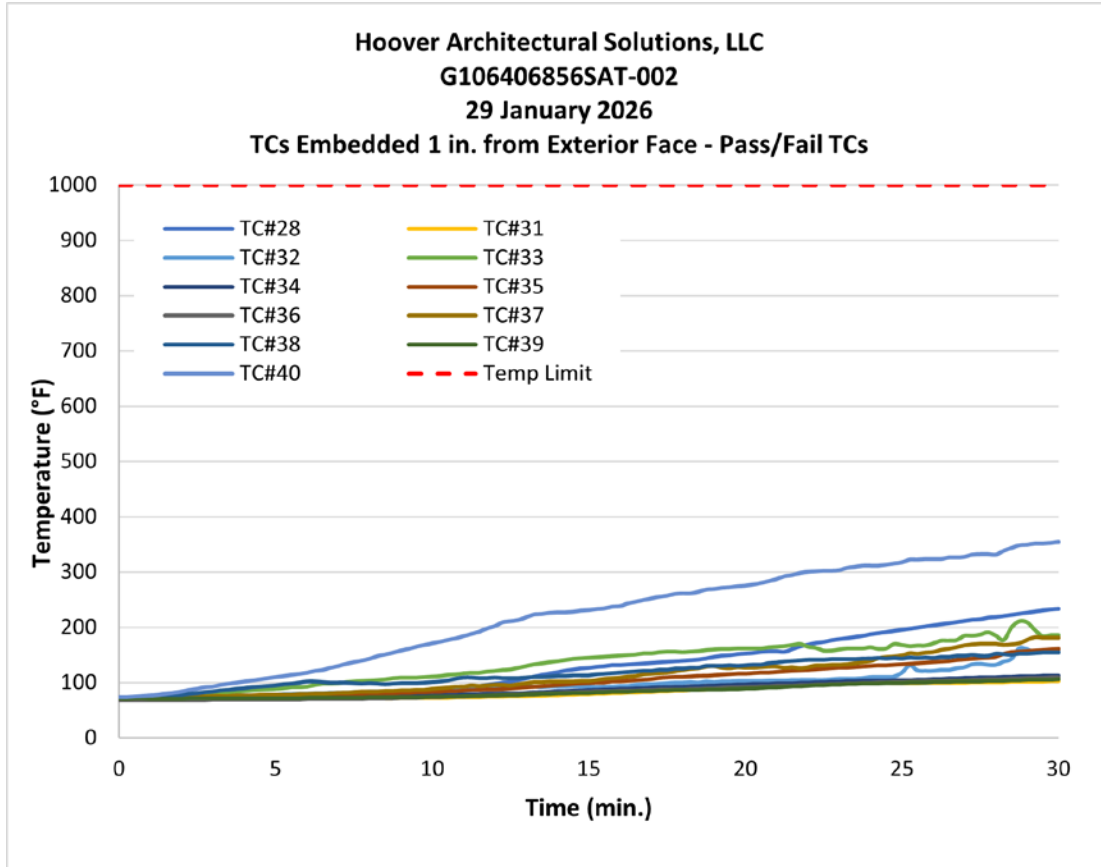
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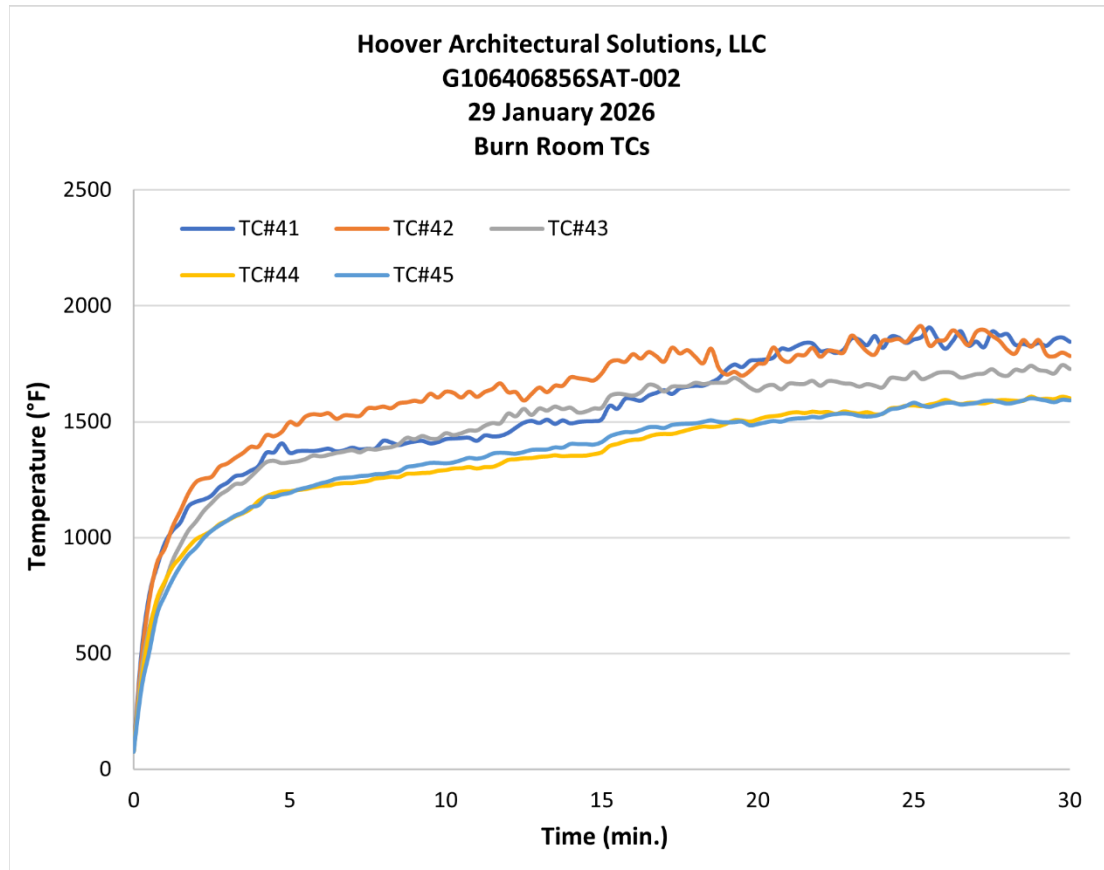
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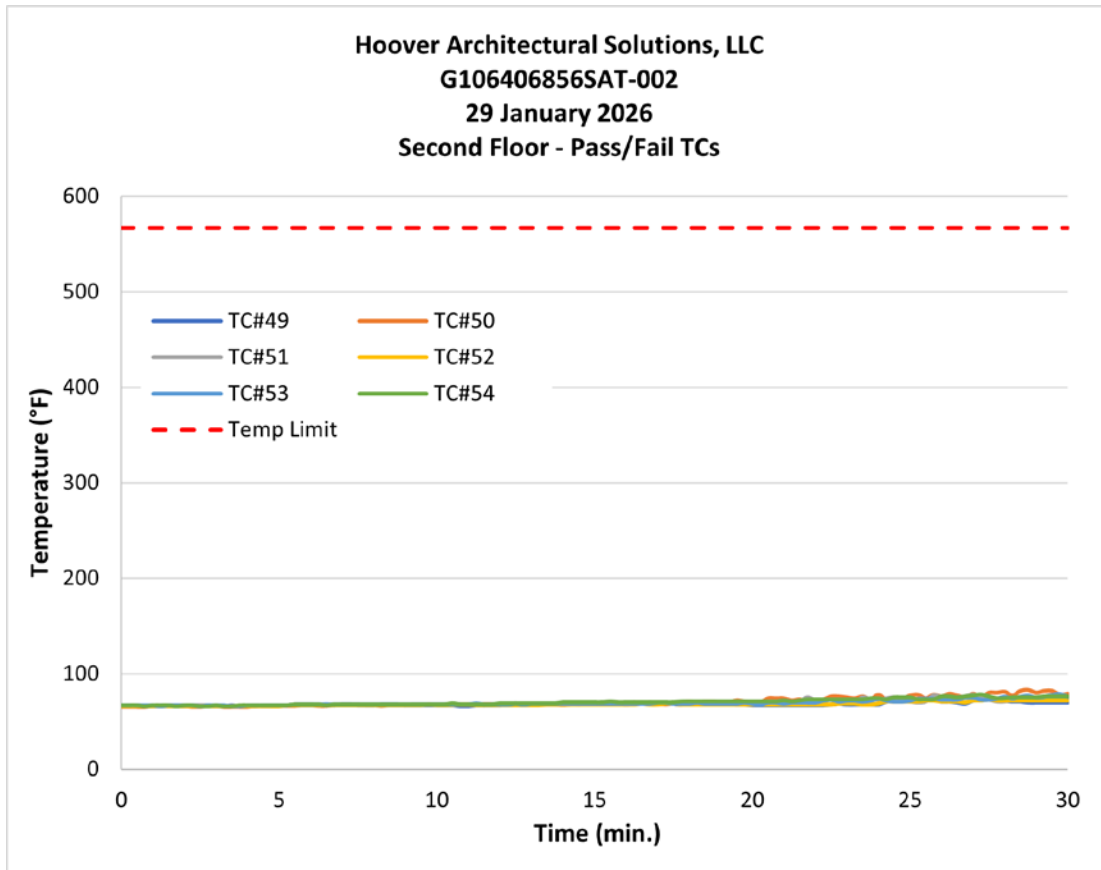
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Hoover Architectural Solutions, LLC

29 January 2026

Time (min)	Burn Room (°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)
0	75	76	74	73	73	73	73	73	73	73	73	75	75
0.25	289	653	325	424	450	436	425	372	364	321	301	289	269
0.5	318	836	429	526	530	508	484	433	408	356	336	318	304
0.75	307	882	438	528	533	511	475	422	383	345	331	307	288
1	309	883	448	545	560	518	483	431	399	354	331	309	290
1.25	312	953	458	563	572	553	511	450	408	366	340	312	296
1.5	339	984	479	583	602	577	547	483	438	379	352	339	326
1.75	356	969	576	681	664	611	556	502	462	420	378	356	337
2	332	1006	543	625	614	577	545	493	446	398	359	332	310
2.25	338	987	515	608	611	571	531	474	439	396	360	338	321
2.5	352	1002	512	617	616	585	535	478	440	399	367	352	328
2.75	340	1004	523	624	616	584	530	482	448	402	362	340	322
3	367	1032	523	613	626	600	568	521	490	437	396	367	341
3.25	362	1022	552	645	639	605	566	516	480	433	384	362	343
3.5	368	1049	545	637	656	628	589	530	490	436	391	368	342
3.75	372	1066	532	632	650	623	590	529	490	445	393	372	343
4	391	1099	540	652	673	645	599	540	506	451	407	391	367
4.25	360	1138	592	704	697	641	581	520	467	415	377	360	342
4.5	362	1120	575	672	664	626	586	525	485	434	384	362	337
4.75	357	1090	554	640	630	601	563	510	473	427	382	357	337
5	393	1107	553	624	633	609	582	539	507	460	407	393	372
5.25	386	1113	581	651	673	642	602	548	502	457	409	386	362
5.5	422	1151	618	708	721	703	669	620	575	509	444	422	396
5.75	425	1124	599	669	685	675	645	598	567	513	449	425	404
6	436	1152	636	723	749	740	701	637	599	541	467	436	409
6.25	502	1168	649	743	771	760	730	666	629	570	519	502	461
6.5	505	1185	665	756	784	771	750	700	670	595	525	505	469
6.75	498	1174	673	756	789	761	743	690	671	610	529	498	459
7	525	1190	672	753	776	777	767	711	689	620	544	525	491
7.25	530	1202	683	763	790	782	771	703	664	598	549	530	494
7.5	503	1206	715	783	801	789	767	709	677	607	525	503	466
7.75	502	1218	700	779	809	806	785	717	677	608	533	502	459
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8.25	511	1223	730	804	823	806	776	716	680	615	531	511	474
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9	508	1216	768	820	823	800	770	698	669	603	527	508	475
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9.5	520	1220	769	811	826	815	803	737	694	621	540	520	484
9.75	543	1192	778	822	826	812	778	711	677	616	555	543	505
10	546	1211	786	838	845	842	815	764	733	663	566	546	506
10.25	591	1234	900	944	930	947	894	831	789	704	622	591	539
10.5	555	1236	943	971	965	952	891	796	756	677	590	555	513
10.75	602	1249	962	988	979	978	927	853	816	719	634	602	554
11	622	1220	1005	1014	990	960	904	854	816	739	649	622	573
11.25	602	1255	1021	1014	1031	1022	943	862	796	707	627	602	556
11.5	607	1257	1060	1050	1031	1006	945	867	819	728	640	607	578
11.75	652	1261	1082	1048	1021	994	943	881	847	761	674	652	601
12	623	1243	1094	1070	1033	1000	936	865	832	747	660	623	580
12.25	615	1275	1155	1141	1109	1067	976	886	831	727	649	615	563
12.5	621	1323	1222	1205	1190	1107	990	890	840	745	652	621	560

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		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)
12.75	593	1283	1206	1162	1130	1052	955	849	788	706	634	593	548
13	648	1325	1173	1139	1101	1020	951	868	836	752	675	648	594
13.25	609	1323	1159	1126	1112	1049	989	887	840	739	649	609	559
13.5	590	1300	1147	1141	1119	1069	999	881	815	716	626	590	535
13.75	635	1304	1168	1182	1150	1078	1053	941	899	781	672	635	584
14	626	1267	1148	1138	1099	1029	992	890	834	739	666	626	578
14.25	601	1277	1130	1121	1088	1011	977	884	833	740	653	601	550
14.5	608	1279	1099	1100	1068	989	952	865	822	725	645	608	569
14.75	607	1290	1088	1080	1055	994	965	879	827	741	643	607	562
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15.25	636	1338	1133	1123	1110	1058	1021	914	857	758	673	636	581
15.5	626	1375	1161	1146	1134	1079	1031	937	878	770	666	626	581
15.75	647	1345	1154	1136	1105	1034	1018	932	875	787	693	647	600
16	649	1357	1159	1142	1137	1069	1059	960	906	802	692	649	604
16.25	633	1359	1148	1144	1136	1059	1031	929	862	771	681	633	587
16.5	658	1384	1152	1137	1130	1069	1068	979	934	838	717	658	604
16.75	707	1397	1173	1156	1148	1087	1096	1007	966	870	756	707	648
17	703	1391	1189	1176	1173	1086	1079	991	958	850	753	703	643
17.25	685	1406	1199	1191	1192	1094	1099	1006	938	834	733	685	616
17.5	654	1383	1191	1184	1177	1079	1076	971	899	787	700	654	600
17.75	654	1411	1238	1214	1208	1105	1076	955	887	799	702	654	607
18	597	1412	1212	1209	1200	1087	1054	939	868	776	654	597	539
18.25	637	1391	1226	1221	1192	1103	1120	963	896	797	675	637	581
18.5	542	1374	1278	1330	1270	1105	999	856	774	691	595	542	499
18.75	584	1386	1262	1515	1382	1177	1077	894	864	769	637	584	545
19	612	1389	1443	1366	1200	1051	1015	864	835	744	644	612	565
19.25	650	1379	1434	1653	1349	1138	1111	945	912	809	697	650	610
19.5	605	1399	1455	1576	1344	1160	1129	946	870	752	647	605	573
19.75	616	1416	1533	1654	1387	1132	1055	926	849	757	653	616	579
20	615	1352	1522	1724	1559	1242	1139	960	874	768	655	615	572
20.25	687	1407	1531	1731	1731	1411	1326	1103	991	863	749	687	635
20.5	717	1382	1419	1736	1668	1346	1247	1074	996	886	767	717	666
20.75	747	1364	1436	1697	1675	1382	1327	1088	1049	923	790	747	679
21	728	1314	1477	1800	1754	1409	1275	1053	994	883	789	728	659
21.25	803	1376	1507	1822	1794	1528	1447	1146	1094	950	854	803	716
21.5	718	1498	1475	1812	1784	1581	1440	1143	1055	919	785	718	633
21.75	782	1367	1504	1805	1780	1508	1428	1148	1070	929	843	782	711
22	638	1249	1533	1738	1720	1496	1303	1047	945	821	723	638	580

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Time (min)	Burn Room (°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)
22.25	595	1409	1646	1656	1729	1549	1328	1047	950	814	672	595	538
22.5	737	1346	1650	1640	1669	1586	1458	1167	1082	903	793	737	674
22.75	651	1244	1543	1612	1679	1509	1258	1032	943	826	712	651	580
23	661	1253	1469	1576	1556	1420	1171	999	910	806	713	661	597
23.25	720	1306	1485	1537	1553	1404	1240	1076	974	875	785	720	652
23.5	676	1397	1514	1530	1588	1390	1246	1097	996	864	750	676	617
23.75	707	1354	1536	1501	1437	1325	1217	1060	988	867	767	707	655
24	664	1299	1525	1526	1426	1343	1211	1059	985	849	732	664	591
24.25	619	1447	1419	1423	1358	1232	1130	989	904	796	669	619	564
24.5	657	1297	1497	1630	1600	1380	1231	1045	944	805	712	657	587
24.75	736	1149	1505	1566	1582	1400	1304	1112	1035	909	805	736	683
25	745	1196	1556	1709	1685	1416	1328	1133	1050	927	811	745	691
25.25	738	1260	1507	1644	1642	1214	1323	1141	1050	914	808	738	682
25.5	715	1262	1543	1640	1616	1356	1327	1140	1041	891	765	715	657
25.75	750	1402	1537	1592	1584	1315	1270	1140	1069	933	811	750	689
26	626	1181	1515	1724	1682	1378	1276	1062	928	798	691	626	577
26.25	672	1424	1511	1525	1528	1299	1226	1083	989	861	730	672	620
26.5	746	1233	1494	1520	1631	1348	1317	1152	1059	909	811	746	685
26.75	729	1332	1494	1534	1656	1328	1373	1164	1035	889	775	729	649
27	798	1310	1495	1550	1686	1384	1426	1241	1146	997	873	798	741
27.25	678	1227	1481	1478	1619	1376	1411	1197	1056	895	769	678	597
27.5	735	1280	1472	1467	1550	1360	1470	1221	1077	909	778	735	692
27.75	864	1186	1506	1529	1482	1366	1514	1334	1221	1032	938	864	768
28	823	1397	1495	1515	1489	1396	1511	1285	1152	986	881	823	756
28.25	915	1321	1469	1499	1488	1457	1443	1271	1202	1073	954	915	854
28.5	846	1314	1490	1521	1481	1510	1425	1221	1134	1001	910	846	790
28.75	833	1292	1440	1461	1538	1676	1513	1229	1123	987	883	833	761
29	891	1466	1464	1486	1524	1567	1534	1408	1247	1083	967	891	831
29.25	890	1402	1463	1494	1459	1597	1567	1478	1233	1075	945	890	805
29.5	889	1336	1467	1504	1449	1488	1486	1366	1212	1066	941	889	802
29.75	847	1374	1466	1464	1420	1442	1195	1190	1084	1002	901	847	769
30	901	1405	1479	1475	1395	1434	1180	1190	1104	1019	944	901	846

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Time (min)	Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail	
	TC#13 (°F)	TC#14 (°F)	TC#15 (°F)	TC#16 (°F)	TC#17 (°F)	TC#18 (°F)	TC#19 (°F)	TC#20 (°F)	TC#21 (°F)	TC#22 (°F)	TC#23 (°F)	TC#24 (°F)	TC#25 (°F)	TC#26 (°F)
0	75	74	75	75	75	71	71	71	73	73	73	73	69	72
0.25	244	101	149	144	84	71	71	163	211	75	73	73	70	73
0.5	269	109	170	170	93	71	71	200	241	79	74	74	69	73
0.75	259	103	184	174	94	71	71	214	250	85	75	75	70	74
1	258	115	186	185	97	71	71	225	262	90	76	77	70	74
1.25	265	116	182	176	98	71	71	237	271	96	78	79	70	75
1.5	291	108	184	185	97	71	71	248	287	100	80	81	70	76
1.75	304	115	224	209	97	71	71	295	328	107	82	84	70	77
2	280	128	203	187	98	71	71	276	312	112	85	87	70	77
2.25	291	109	191	178	99	71	71	253	300	117	87	90	70	79
2.5	296	109	187	211	103	71	71	259	298	122	90	94	70	80
2.75	292	115	173	192	107	71	72	274	311	127	93	97	70	82
3	298	114	180	205	111	71	72	265	307	131	96	100	71	84
3.25	307	116	178	209	107	71	72	273	324	136	99	104	71	86
3.5	302	129	193	193	109	71	71	256	310	140	102	107	71	87
3.75	308	128	194	190	102	71	71	280	323	146	105	111	71	89
4	321	128	220	208	105	71	72	297	336	150	108	114	72	91
4.25	307	147	237	200	109	71	72	319	359	155	112	118	72	94
4.5	300	152	212	180	108	72	72	313	346	161	115	122	73	96
4.75	303	154	232	191	104	72	72	304	339	167	119	126	73	99
5	331	150	211	199	103	73	73	300	337	171	123	129	74	101
5.25	319	142	229	207	107	73	73	315	352	175	127	133	75	103
5.5	355	138	234	241	115	74	73	330	364	179	130	136	75	106
5.75	365	147	215	228	115	74	73	320	352	183	134	140	76	108
6	372	142	233	252	125	74	73	345	381	188	137	143	77	110
6.25	389	145	241	255	129	75	73	347	374	193	141	147	78	113
6.5	416	145	252	275	131	75	74	339	385	199	144	151	79	115
6.75	408	134	245	274	128	75	74	346	386	207	148	156	80	118
7	428	131	248	282	131	76	75	358	380	215	152	161	80	121
7.25	425	138	243	279	130	76	75	352	389	224	156	166	82	123
7.5	417	142	256	280	131	76	76	367	404	233	161	172	83	126
7.75	412	152	234	298	139	76	76	375	400	243	166	178	84	129
8	414	124	259	293	136	76	77	392	416	255	171	183	85	132
8.25	422	146	257	286	134	76	77	403	414	268	177	189	86	135
8.5	415	137	257	296	137	76	78	407	430	276	182	194	87	136
8.75	440	137	254	322	142	76	79	422	438	286	189	200	88	138
9	433	140	258	310	139	77	79	422	445	294	194	205	90	141
9.25	439	138	249	313	140	78	79	434	438	302	202	211	92	142
9.5	430	133	247	302	137	78	80	440	440	309	209	216	92	144
9.75	440	144	267	312	140	79	80	448	449	317	217	222	94	146
10	456	142	258	325	147	79	81	451	454	322	223	228	95	147
10.25	472	156	295	344	151	80	81	488	483	328	229	234	97	150
10.5	460	151	312	355	147	80	82	510	503	335	235	239	99	153
10.75	489	159	286	376	154	81	82	518	508	342	241	244	102	158
11	512	162	286	370	157	81	83	542	530	347	247	250	104	161
11.25	499	127	292	372	155	82	84	539	536	356	253	256	107	164
11.5	516	145	298	384	162	82	84	561	539	373	260	261	109	167
11.75	530	134	276	379	155	83	85	563	549	394	268	267	112	171
12	522	141	293	383	151	84	86	574	560	407	275	273	114	176
12.25	513	138	309	366	153	84	86	600	580	428	284	280	118	180
12.5	504	156	318	344	157	85	87	619	601	441	292	286	122	184

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Time (min)	Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail	
	TC#13 (°F)	TC#14 (°F)	TC#15 (°F)	TC#16 (°F)	TC#17 (°F)	TC#18 (°F)	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)
12.75	487	148	299	374	156	86	88	626	604	449	301	295	129	188		
13	525	138	278	367	150	86	88	632	609	451	308	303	134	192		
13.25	491	147	314	377	151	86	89	628	604	453	315	310	138	197		
13.5	493	168	319	372	159	87	89	652	616	455	322	317	141	201		
13.75	510	147	283	376	156	88	90	673	628	458	329	324	143	205		
14	507	140	281	346	153	88	90	666	621	461	335	329	146	208		
14.25	486	151	300	336	158	89	91	661	616	462	343	335	147	213		
14.5	493	153	277	353	156	89	91	651	610	463	348	340	146	217		
14.75	501	137	279	352	155	90	92	645	610	465	355	345	147	221		
15	504	141	294	344	159	90	92	646	608	466	360	350	148	225		
15.25	523	148	287	369	161	90	92	656	618	470	366	355	152	230		
15.5	526	136	300	341	161	91	93	671	627	473	371	359	156	233		
15.75	527	141	305	361	162	92	93	675	633	477	377	363	161	238		
16	532	143	291	370	171	92	93	689	640	479	381	367	165	241		
16.25	513	152	306	355	167	93	94	693	648	481	387	371	169	245		
16.5	531	167	310	354	166	93	94	706	654	484	392	374	172	249		
16.75	576	134	308	362	165	94	95	731	660	488	397	378	176	253		
17	567	149	290	382	160	94	96	745	666	492	401	382	179	256		
17.25	550	145	284	413	164	95	97	754	666	495	405	386	182	261		
17.5	521	135	279	380	170	96	97	760	665	497	409	390	185	265		
17.75	538	150	306	360	176	97	97	762	669	499	414	394	188	273		
18	492	151	343	322	168	97	98	763	667	501	417	397	191	281		
18.25	518	137	305	364	179	98	98	770	668	503	424	400	193	286		
18.5	439	167	328	348	178	99	99	772	668	506	430	403	195	290		
18.75	485	152	329	345	176	99	99	803	689	508	436	412	197	310		
19	510	157	303	372	195	100	99	808	677	510	440	414	198	307		
19.25	522	153	297	346	177	101	100	830	688	510	444	416	200	305		
19.5	486	147	294	383	173	102	101	835	691	512	448	419	203	307		
19.75	512	160	338	376	202	102	102	837	704	514	451	422	205	308		
20	519	140	295	400	193	102	103	822	723	516	455	425	208	310		
20.25	571	145	327	443	207	103	104	839	762	519	460	429	210	311		
20.5	597	162	341	424	219	103	105	828	784	524	464	433	213	313		
20.75	588	166	372	440	199	105	105	835	802	529	470	434	214	315		
21	585	143	351	452	204	106	107	860	799	534	475	435	215	319		
21.25	620	133	311	416	190	107	107	921	805	538	480	435	216	323		
21.5	553	168	360	479	202	108	109	798	810	543	485	438	217	326		
21.75	616	139	332	477	185	109	110	747	818	548	491	441	219	328		
22	526	136	337	471	197	109	111	917	810	552	498	447	221	328		

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Time (min)	Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail		Pass/ Fail	
	TC#13 (°F)	TC#14 (°F)	TC#15 (°F)	TC#16 (°F)	TC#17 (°F)	TC#18 (°F)	TC#19 (°F)	TC#20 (°F)	TC#21 (°F)	TC#22 (°F)	TC#23 (°F)	TC#24 (°F)	TC#25 (°F)	TC#26 (°F)
22.25	481	148	352	463	210	110	113	922	817	555	504	453	224	330
22.5	564	139	287	406	195	112	114	923	823	560	510	458	226	333
22.75	502	139	351	434	212	112	115	972	828	564	517	463	230	336
23	515	143	327	457	202	113	115	1100	831	568	523	466	232	340
23.25	576	120	298	454	209	114	116	1270	825	572	529	470	236	342
23.5	537	142	301	457	206	115	116	1374	827	576	536	475	238	351
23.75	565	147	282	413	203	115	117	1417	824	580	545	480	241	357
24	527	139	324	428	189	116	118	1455	829	585	554	484	244	363
24.25	481	196	335	346	203	116	118	1481	838	590	569	489	247	367
24.5	502	200	414	320	181	117	119	1548	850	594	579	493	249	370
24.75	579	185	378	339	176	118	119	1563	863	599	584	496	252	373
25	596	198	385	328	175	120	120	1612	874	603	590	500	255	376
25.25	590	171	346	385	183	122	120	1588	879	608	596	504	258	382
25.5	571	162	331	386	192	122	120	1600	880	613	601	506	261	383
25.75	598	146	351	331	185	122	122	1591	903	620	606	509	265	386
26	518	122	326	362	190	123	123	1656	904	629	610	511	267	388
26.25	550	165	374	394	197	123	124	1614	914	644	616	516	268	390
26.5	582	137	309	382	187	124	124	1487	914	666	622	519	270	391
26.75	584	122	346	395	181	125	124	1481	927	693	629	523	272	396
27	649	141	359	408	192	126	125	1455	899	716	638	527	274	399
27.25	543	171	444	408	199	127	126	1433	905	738	651	532	277	399
27.5	601	211	406	358	188	127	127	1462	920	759	664	535	279	400
27.75	678	157	390	359	183	128	128	1490	928	786	679	540	282	403
28	653	181	397	354	178	129	128	1473	931	808	691	543	284	412
28.25	733	143	325	403	182	130	129	1450	910	831	705	548	287	441
28.5	698	129	348	404	185	130	130	1467	903	852	719	551	290	439
28.75	658	152	348	400	187	131	130	1444	900	877	736	558	293	439
29	730	139	314	436	194	132	131	1457	892	897	754	563	296	439
29.25	687	115	267	415	191	132	132	1464	927	915	776	567	298	445
29.5	703	137	338	427	194	134	132	1476	1030	923	795	573	301	450
29.75	682	141	359	403	196	135	133	1461	1117	945	804	577	304	457
30	749	135	302	406	186	135	135	1456	1282	958	819	581	307	463

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	TC#27 (°F)	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)	TC#42 (°F)
0	73	71	74	75	69	73	74	71	71	68	73	73	71	74		
0.25	74	71	75	76	69	73	74	71	71	68	73	73	70	74		
0.5	74	71	74	79	69	73	74	71	71	68	73	73	71	75		
0.75	74	71	75	81	69	74	74	71	71	68	73	73	71	76		
1	75	71	76	84	69	74	75	71	71	68	73	74	70	77		
1.25	77	71	77	86	69	74	75	71	71	68	73	75	70	78		
1.5	78	71	78	89	69	74	75	71	71	68	74	76	70	80		
1.75	80	71	80	92	69	74	76	71	71	68	74	77	70	82		
2	82	71	82	94	69	75	77	71	71	68	74	78	70	84		
2.25	84	71	84	97	69	75	78	71	71	68	75	80	71	87		
2.5	86	71	86	99	70	75	79	71	71	68	75	81	71	89		
2.75	88	71	88	102	70	76	80	71	71	68	75	83	71	92		
3	91	71	90	103	70	76	81	71	71	69	76	84	71	93		
3.25	94	71	92	106	70	76	82	71	72	69	76	86	71	96		
3.5	96	72	94	108	70	76	83	71	72	69	76	87	71	98		
3.75	99	72	97	111	70	77	84	71	72	69	77	89	71	100		
4	102	72	99	113	70	77	85	71	72	69	77	90	71	102		
4.25	105	72	102	116	70	77	86	71	72	69	77	92	71	104		
4.5	107	73	104	118	70	77	87	71	73	69	78	93	71	106		
4.75	110	73	107	120	70	78	88	72	73	69	78	94	71	108		
5	111	73	109	122	70	78	89	72	73	69	78	95	71	110		
5.25	114	73	111	125	70	79	90	72	73	69	78	97	71	112		
5.5	116	74	114	127	70	79	92	72	74	69	78	98	71	114		
5.75	119	74	116	130	70	80	92	72	74	69	79	100	71	116		
6	122	75	119	133	70	80	93	72	75	70	79	102	72	118		
6.25	125	75	122	136	70	81	96	73	75	70	80	102	72	121		
6.5	127	76	125	139	70	81	98	73	75	70	80	101	72	123		
6.75	131	76	128	142	70	82	98	73	76	70	81	100	72	127		
7	134	77	131	145	71	82	99	73	76	70	82	100	72	130		
7.25	137	77	135	148	71	82	101	73	77	70	82	100	72	134		
7.5	140	78	138	151	71	83	102	73	77	70	83	99	72	137		
7.75	145	78	141	154	71	83	103	74	78	70	84	98	72	140		
8	148	79	144	157	71	84	104	74	78	71	84	99	73	143		
8.25	153	80	148	160	71	84	105	74	79	71	84	98	73	148		
8.5	155	80	151	163	71	84	106	75	80	71	85	97	73	151		
8.75	160	81	155	166	71	84	108	75	80	71	85	98	73	154		
9	164	82	158	168	72	85	109	75	81	72	86	99	73	158		
9.25	168		162	171	72	85	109	75	81	72	86	99	73	161		
9.5	172		166	174	72	85	109	76	82	72	87	99	73	165		
9.75	177	84	170	177	72	86	110	76	82	73	87	100	73	168		
10	181	85	174	180	72	86	111	76	83	73	89	101	74	171		
10.25	185	86	178	183	72	87	112	77	83	73	90	102	74	174		
10.5	189	87	182	186	72	87	114	77	84	74	91	104	74	177		
10.75	194	88	187	189	73	88	115	77	84	74	93	107	74	180		
11	198	90	192	193	73	88	117	78	85	74	93	109	75	184		
11.25	203	92	198	197	73	89	118	78	86	75	95	109	75	188		
11.5	208	93	202	200	73	90	118	78	86	76	94	108	75	192		
11.75	213	95	208	204	74	90	120	79	87	76	95	108	76	198		
12	218	97	212	207	74	90	121	79	87	77	96	109	76	202		
12.25	224	99	218	212	74	90	123	80	88	77	96	108	77	209		
12.5	229	101	223	215	75	91	124	80	89	78	95	108	77	211		

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	TC#27 (°F)	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)	TC#42 (°F)
12.75	234	104	228	220	75	92	127	80	90	78	97	108	77	213		
13	239	107	232	225	75	93	130	81	91	79	99	109	78	218		
13.25	244	110	237	230	76	93	133	82	92	80	101	110	78	223		
13.5	249	113	241	235	76	92	135	82	93	80	101	110	79	224		
13.75	254	116	245	240	77	93	137	83	94	81	102	111	79	226		
14	258	118	249	244	77	93	139	84	95	81	102	112	80	227		
14.25	263	121	254	249	78	93	141	84	96	82	102	112	80	227		
14.5	268	123	258	254	78	94	143	85	97	82	102	113	81	228		
14.75	273	125	261	258	79	93	144	85	98	83	103	113	81	230		
15	277	126	265	262	79	93	145	86	99	83	103	113	81	231		
15.25	282	128	269	266	80	92	146	86	100	84	105	115	82	233		
15.5	286	129	273	270	80	93	147	87	100	84	107	116	82	234		
15.75	291	131	277	274	81	93	148	87	102	84	108	117	83	237		
16	294	131	280	277	81	94	149	88	102	85	109	118	83	238		
16.25	299	132	284	282	82	94	150	88	103	85	111	119	83	243		
16.5	303	133	287	285	82	96	151	89	104	85	112	120	84	246		
16.75	307	134	292	289	83	97	153	89	105	86	115	121	84	249		
17	310	135	295	292	83	97	153	90	106	86	116	121	84	252		
17.25	315	136	299	296	84	98	155	91	108	87	117	123	85	255		
17.5	319	137	303	299	84	99	156	91	109	87	118	123	85	257		
17.75	323	138	307	303	85	100	156	92	110	87	120	125	86	260		
18	327	139	311	306	85	100	155	92	110	87	123	125	86	261		
18.25	331	140	315	308	86	101	156	93	111	88	125	127	86	261		
18.5	335	141	317	311	86	100	157	93	112	88	126	127	86	264		
18.75	342	143	321	313	87	102	159	94	112	89	129	130	87	268		
19	343	146	323	316	88	101	160	94	113	89	130	130	87	269		
19.25	346	148	325	318	89	102	161	95	114	90	127	130	87	271		
19.5	349	149	327	321	90	102	161	95	115	91	126	131	88	272		
19.75	353	151	329	324	91	103	162	96	116	91	128	130	88	274		
20	355	152	331	326	92	103	162	96	116	92	127	131	89	275		
20.25	358	153	334	329	93	103	162	97	117	92	127	132	89	277		
20.5	361	155	336	331	94	103	162	97	118	93	128	132	90	280		
20.75	363	156	339	335	94	104	164	97	118	93	129	135	91	283		
21	365	156	341	338	95	104	165	98	119	94	129	136	91	287		
21.25	367	155	344	341	96	104	166	98	120	94	127	138	92	292		
21.5	370	160	346	344	96	105	168	98	121	94	128	139	93	294		
21.75	373	165	349	347	96	105	170	99	122	95	126	140	93	298		
22	376	168	351	349	97	105	165	99	123	95	128	141	94	300		

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	TC#27 (°F)	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)	TC#42 (°F)
22.25	379	171	354	351	97	105	163	100	124	96	131	141	95	301		
22.5	382	173	357	352	98	105	158	100	125	96	131	141	95	302		
22.75	384	176	359	355	98	106	158	101	126	97	132	142	96	302		
23	386	178	361	356	99	107	160	101	127	97	132	142	96	303		
23.25	389	180	364	358	99	107	162	102	127	98	133	142	97	307		
23.5	391	182	367	360	99	107	162	102	128	98	135	142	97	309		
23.75	393	184	369	362	99	108	162	103	129	99	137	143	98	311		
24	396	187	372	363	99	110	164	103	130	99	139	143	98	311		
24.25	399	189	375	365	99	110	161	103	131	100	144	144	98	311		
24.5	390	191	377	366	100	110	162	103	131	100	146	143	99	313		
24.75	393	193	379	368	99	111	170	104	132	101	147	144	99	315		
25	394	195	380	370	99	118	168	104	133	101	149	143	99	317		
25.25	398	197	382	372	99	131	166	104	134	102	153	145	100	322		
25.5	398	199	384	374	99	122	167	105	135	102	152	144	100	322		
25.75	400	201	386	376	100	121	167	105	136	103	154	145	100	323		
26	401	203	387	378	100	121	171	106	137	103	155	144	101	323		
26.25	404	205	389	379	100	123	176	106	138	103	159	146	101	323		
26.5	406	207	391	380	100	123	176	107	139	104	161	146	101	326		
26.75	408	209	393	383	100	126	177	107	141	104	164	148	102	326		
27	409	211	395	384	100	128	185	108	142	104	167	148	102	327		
27.25	412	213	397	387	101	133	185	108	143	105	169	150	102	331		
27.5	412	214	398	388	101	134	187	109	144	105	170	148	102	332		
27.75	413	217	401	390	101	132	191	109	145	106	170	148	103	332		
28	413	218	403	393	101	132	185	109	147	106	170	152	103	331		
28.25	415	220	404	396	101	138	177	110	152	106	168	151	103	338		
28.5	417	222	405	400	102	143	200	110	155	107	169	150	104	343		
28.75	421	224	406	402	102	162	211	111	156	107	171	152	104	348		
29	434	226	408	405	102	160	209	111	157	108	177	152	105	349		
29.25	441	228	410	408	102	154	195	111	158	108	182	153	105	351		
29.5	445	230	412	409	102	157	184	112	159	108	181	154	105	351		
29.75	448	232	415	411	103	156	186	112	160	109	181	154	105	352		
30	451	233	416	413	103	157	186	112	161	109	181	154	106	354		

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0	75	77	81	76	75	80	80	88	66	65	66	66	66	67	67	66	66	67	67	67	67
0.25	501	473	419	380	348	471	455	506	67	65	66	66	66	67	67	66	66	67	67	67	67
0.5	750	729	610	590	506	819	781	813	67	65	66	66	66	67	67	66	66	67	67	67	67
0.75	874	890	721	736	670	988	961	937	66	65	66	66	66	67	67	66	66	67	67	67	67
1	975	953	804	810	750	1034	1028	980	66	66	66	66	66	67	67	66	66	67	67	67	67
1.25	1030	1047	902	875	820	1059	1077	1011	67	66	66	66	66	67	67	66	66	67	67	67	67
1.5	1065	1115	969	915	878	1083	1110	1062	67	66	66	67	66	67	67	66	66	67	67	67	67
1.75	1133	1189	1030	958	925	1129	1146	1143	67	66	67	66	67	66	67	66	66	67	67	67	67
2	1154	1239	1070	993	957	1135	1152	1134	66	66	67	66	67	66	67	66	66	67	67	67	67
2.25	1164	1254	1116	1011	999	1145	1176	1139	67	65	67	65	67	66	67	66	66	67	67	67	67
2.5	1181	1262	1150	1030	1030	1155	1197	1162	67	65	67	65	67	66	67	66	66	67	67	67	67
2.75	1217	1305	1184	1058	1053	1168	1222	1183	67	66	67	66	67	66	67	66	66	67	67	67	67
3	1236	1319	1205	1073	1074	1190	1233	1199	66	66	66	66	66	66	67	66	66	67	67	67	67
3.25	1264	1343	1231	1091	1095	1202	1242	1208	66	65	66	65	66	66	67	66	66	67	67	67	67
3.5	1270	1364	1235	1105	1109	1217	1265	1220	67	65	66	65	66	66	67	66	66	67	67	67	67
3.75	1288	1391	1263	1124	1132	1233	1289	1240	66	65	66	65	66	66	67	66	66	67	67	67	67
4	1308	1392	1296	1158	1140	1255	1306	1283	66	65	66	65	66	66	67	66	66	67	67	67	67
4.25	1365	1441	1326	1178	1174	1300	1323	1308	66	66	66	66	66	67	67	66	66	67	67	67	67
4.5	1367	1437	1332	1191	1176	1305	1333	1308	67	66	66	66	66	66	67	66	66	67	67	67	67
4.75	1406	1456	1322	1199	1187	1299	1327	1314	67	66	66	66	66	66	67	66	66	67	67	67	67
5	1365	1498	1326	1200	1193	1302	1349	1323	67	66	67	66	67	66	67	66	66	67	67	67	67
5.25	1372	1486	1330	1205	1207	1300	1354	1313	67	66	67	66	67	66	67	66	66	67	67	67	67
5.5	1374	1521	1339	1209	1215	1303	1366	1328	67	66	68	66	68	67	68	66	66	67	67	67	67
5.75	1373	1532	1355	1216	1224	1318	1370	1331	67	67	68	67	68	67	68	66	66	67	67	67	67
6	1377	1529	1351	1222	1235	1308	1374	1340	67	67	68	67	68	67	68	66	66	67	67	67	67
6.25	1383	1536	1358	1224	1243	1317	1380	1352	67	66	67	66	67	67	68	66	66	67	67	67	67
6.5	1371	1512	1366	1232	1255	1312	1379	1356	68	66	67	66	67	67	68	66	66	67	67	67	67
6.75	1376	1527	1372	1235	1259	1321	1389	1351	67	67	67	67	67	67	68	66	66	67	67	67	67
7	1387	1526	1378	1235	1261	1319	1386	1377	68	67	68	67	68	67	68	66	66	67	67	67	67
7.25	1380	1525	1369	1240	1266	1332	1401	1365	68	67	68	67	68	67	68	66	66	67	67	67	67
7.5	1383	1557	1383	1244	1268	1333	1417	1369	67	67	68	67	68	67	68	66	66	67	67	67	67
7.75	1384	1558	1380	1255	1274	1338	1404	1369	67	67	67	67	67	67	68	66	66	67	67	67	67
8	1417	1565	1387	1258	1275	1346	1400	1370	67	67	67	67	67	67	68	66	66	67	67	67	67
8.25	1410	1558	1391	1262	1282	1349	1408	1381	68	66	67	66	67	67	68	66	66	67	67	67	67
8.5	1399	1579	1404	1261	1286	1347	1424	1394	68	67	67	66	67	67	68	66	66	67	67	67	67
8.75	1407	1583	1431	1275	1305	1347	1423	1407	68	67	67	66	67	67	68	66	66	67	67	67	67
9	1414	1590	1425	1276	1310	1356	1432	1416	67	67	67	66	67	67	68	66	66	67	67	67	67
9.25	1417	1587	1439	1279	1316	1362	1433	1424	67	67	67	66	67	67	68	66	66	67	67	67	67
9.5	1406	1620	1428	1280	1323	1358	1439	1445	67	67	68	67	68	67	68	66	66	67	67	67	67
9.75	1411	1604	1428	1288	1323	1364	1457	1456	67	67	68	67	68	67	68	66	66	67	67	67	67
10	1424	1629	1451	1291	1321	1377	1463	1458	67	67	68	67	68	67	68	66	66	67	67	67	67
10.25	1427	1624	1443	1298	1325	1378	1465	1466	67	67	68	67	68	67	68	66	66	67	67	67	67
10.5	1429	1604	1451	1299	1335	1380	1480	1465	67	68	68	67	68	67	68	66	66	67	67	67	67
10.75	1430	1629	1463	1304	1345	1383	1486	1454	66	67	68	67	68	67	68	66	66	67	67	67	67
11	1417	1607	1463	1298	1341	1380	1468	1466	66	67	68	67	68	67	68	66	66	67	67	67	67
11.25	1440	1628	1483	1304	1348	1394	1483	1493	67	67	68	67	68	67	68	66	66	67	67	67	67
11.5	1436	1641	1495	1305	1363	1395	1481	1491	67	68	67	66	67	67	68	66	66	67	67	67	67
11.75	1438	1665	1494	1318	1367	1404	1495	1500	67	68	68	67	68	67	68	66	66	67	67	67	67
12	1451	1627	1536	1335	1365	1425	1526	1495	67	67	68	67	68	67	68	66	66	67	67	67	67
12.25	1474	1627	1524	1338	1363	1445	1544	1508	68	68	68	67	68	67	68	66	66	67	67	67	67
12.5	1495	1591	1556	1342	1370	1457	1546	1497	68	67	69	67	69	67	69	66	66	67	67	67	67

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12.75	1503	1619	1530	1343	1379	1454	1532	1501	68	67	68	67	68	69
13	1494	1647	1558	1348	1380	1451	1540	1522	69	68	68	67	69	69
13.25	1508	1627	1549	1350	1381	1463	1536	1511	68	68	68	67	69	69
13.5	1490	1655	1566	1355	1390	1459	1541	1541	68	68	68	68	69	69
13.75	1505	1655	1555	1351	1389	1477	1560	1522	68	68	68	68	69	69
14	1492	1691	1561	1353	1405	1457	1535	1541	68	67	69	68	69	70
14.25	1498	1687	1540	1353	1404	1462	1543	1544	69	68	69	68	69	70
14.5	1501	1683	1545	1354	1404	1461	1551	1553	69	68	68	68	69	70
14.75	1502	1678	1558	1360	1402	1469	1566	1557	69	68	69	68	69	70
15	1510	1708	1561	1368	1413	1470	1548	1557	69	68	69	68	69	70
15.25	1568	1755	1610	1395	1437	1520	1608	1596	69	68	70	68	69	70
15.5	1555	1765	1621	1404	1449	1531	1626	1650	69	68	70	68	69	71
15.75	1598	1758	1618	1415	1456	1565	1679	1660	69	69	69	68	69	70
16	1597	1791	1613	1422	1456	1578	1687	1683	68	69	70	68	69	70
16.25	1590	1772	1628	1424	1465	1586	1726	1683	69	70	69	68	69	70
16.5	1612	1800	1660	1436	1477	1584	1682	1675	70	69	70	69	69	70
16.75	1624	1782	1654	1445	1478	1604	1734	1677	69	70	69	68	69	70
17	1635	1759	1631	1447	1474	1600	1730	1715	69	69	69	68	70	70
17.25	1619	1819	1652	1447	1487	1600	1721	1723	69	68	69	69	70	70
17.5	1643	1794	1653	1455	1491	1615	1710	1702	69	69	69	69	69	70
17.75	1650	1808	1654	1464	1492	1615	1744	1740	68	70	70	68	69	71
18	1655	1779	1669	1473	1494	1630	1723	1716	71	71	70	68	69	71
18.25	1655	1752	1663	1479	1500	1637	1735	1708	69	70	70	68	70	71
18.5	1669	1815	1668	1477	1507	1629	1708	1700	69	71	70	68	69	71
18.75	1687	1731	1669	1480	1500	1644	1727	1700	71	71	69	68	69	71
19	1724	1703	1671	1492	1498	1677	1734	1677	69	70	70	68	69	71
19.25	1746	1715	1690	1506	1499	1696	1748	1698	69	70	70	68	69	71
19.5	1735	1698	1672	1505	1501	1708	1784	1723	68	72	70	68	69	71
19.75	1762	1719	1647	1500	1485	1688	1783	1770	68	71	70	68	70	71
20	1765	1749	1634	1510	1491	1696	1746	1755	67	70	70	68	69	71
20.25	1768	1755	1654	1520	1498	1700	1765	1758	67	70	69	68	68	71
20.5	1776	1820	1659	1524	1504	1712	1744	1743	67	74	71	68	70	71
20.75	1814	1772	1641	1528	1501	1733	1747	1771	67	74	71	68	70	71
21	1810	1758	1665	1537	1511	1710	1770	1767	67	74	72	68	69	72
21.25	1826	1787	1664	1541	1515	1721	1784	1776	67	72	71	68	70	71
21.5	1839	1787	1664	1537	1516	1725	1797	1801	67	73	71	68	70	72
21.75	1837	1818	1677	1543	1522	1736	1756	1777	67	71	75	68	70	73
22	1804	1780	1656	1540	1519	1721	1782	1791	67	73	72	68	70	73

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G106406856SAT-002

Hoover Architectural Solutions, LLC

29 January 2026

Time (min)									Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail	Pass/ Fail
	TC#41 (°F)	TC#42 (°F)	TC#43 (°F)	TC#44 (°F)	TC#45 (°F)	TC#46 (°F)	TC#47 (°F)	TC#48 (°F)	TC#49 (°F)	TC#50 (°F)	TC#51 (°F)	TC#52 (°F)	TC#53 (°F)	TC#54 (°F)
22.25	1807	1806	1676	1542	1529	1722	1796	1790	67	73	71	68	72	73
22.5	1796	1803	1674	1533	1534	1712	1791	1805	68	76	73	68	73	73
22.75	1810	1799	1666	1544	1537	1703	1785	1828	69	76	71	69	71	73
23	1858	1871	1664	1539	1534	1733	1772	1805	68	75	73	69	72	73
23.25	1853	1838	1652	1535	1526	1733	1777	1797	68	74	71	69	72	73
23.5	1829	1802	1663	1541	1523	1725	1794	1795	68	76	75	68	71	73
23.75	1869	1790	1656	1532	1526	1732	1776	1799	68	73	73	68	72	74
24	1818	1848	1649	1534	1536	1711	1754	1791	68	78	73	69	74	74
24.25	1865	1850	1689	1557	1554	1757	1765	1767	71	72	74	71	72	73
24.5	1863	1857	1688	1560	1559	1746	1757	1754	72	71	75	71	71	75
24.75	1839	1844	1686	1569	1569	1715	1733	1738	72	73	72	71	71	75
25	1854	1884	1715	1570	1583	1728	1737	1726	73	77	71	71	72	75
25.25	1865	1911	1685	1567	1571	1773	1786	1838	73	78	70	71	74	73
25.5	1906	1828	1695	1574	1565	1798	1859	1850	73	74	71	72	74	73
25.75	1857	1849	1711	1581	1574	1764	1860	1860	73	78	77	72	74	73
26	1814	1853	1715	1594	1582	1736	1835	1870	71	76	75	71	73	76
26.25	1848	1894	1711	1583	1583	1756	1840	1882	71	79	74	71	73	76
26.5	1890	1865	1691	1576	1575	1763	1833	1887	70	77	75	71	73	75
26.75	1828	1830	1697	1581	1578	1755	1852	1857	69	75	76	70	75	76
27	1845	1887	1706	1581	1582	1757	1851	1889	72	79	78	72	75	77
27.25	1821	1896	1709	1579	1591	1768	1814	1852	73	75	75	72	73	78
27.5	1888	1871	1727	1587	1592	1795	1833	1846	74	80	73	73	73	76
27.75	1871	1848	1705	1593	1586	1778	1865	1934	74	80	71	72	74	74
28	1877	1809	1699	1593	1579	1773	1842	1881	72	81	71	72	76	74
28.25	1831	1794	1725	1590	1584	1789	1922	1872	71	77	73	72	74	75
28.5	1835	1852	1720	1590	1593	1755	1870	1890	71	82	74	72	76	75
28.75	1827	1823	1742	1608	1602	1772	1919	1894	70	83	73	72	77	75
29	1839	1852	1724	1597	1598	1766	1896	1889	70	80	73	72	75	75
29.25	1827	1789	1719	1599	1592	1801	1914	1861	70	82	73	72	76	76
29.5	1855	1782	1709	1597	1585	1821	1948	1876	70	82	73	72	78	76
29.75	1863	1798	1745	1608	1596	1804	1900	1852	70	78	73	72	79	76
30	1844	1783	1728	1601	1593	1831	1953	1873	70	79	74	72	76	76



Total Quality. Assured.

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SECTION 13

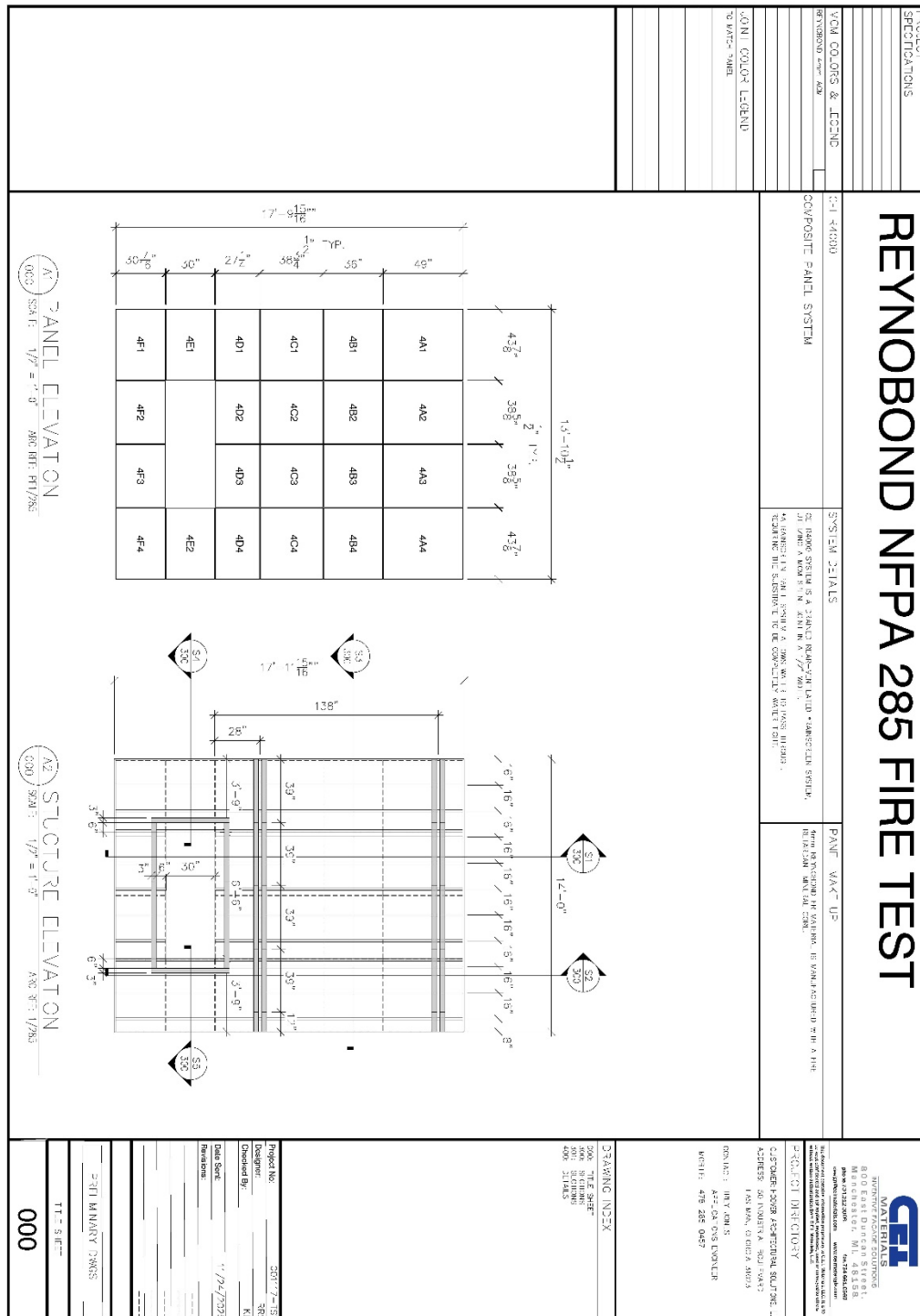
DRAWINGS

The "As-Built" drawings for Hoover Architectural Solutions, LLC, which have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C as per the drawings included in this report. Any deviations are documented herein or on the drawings.

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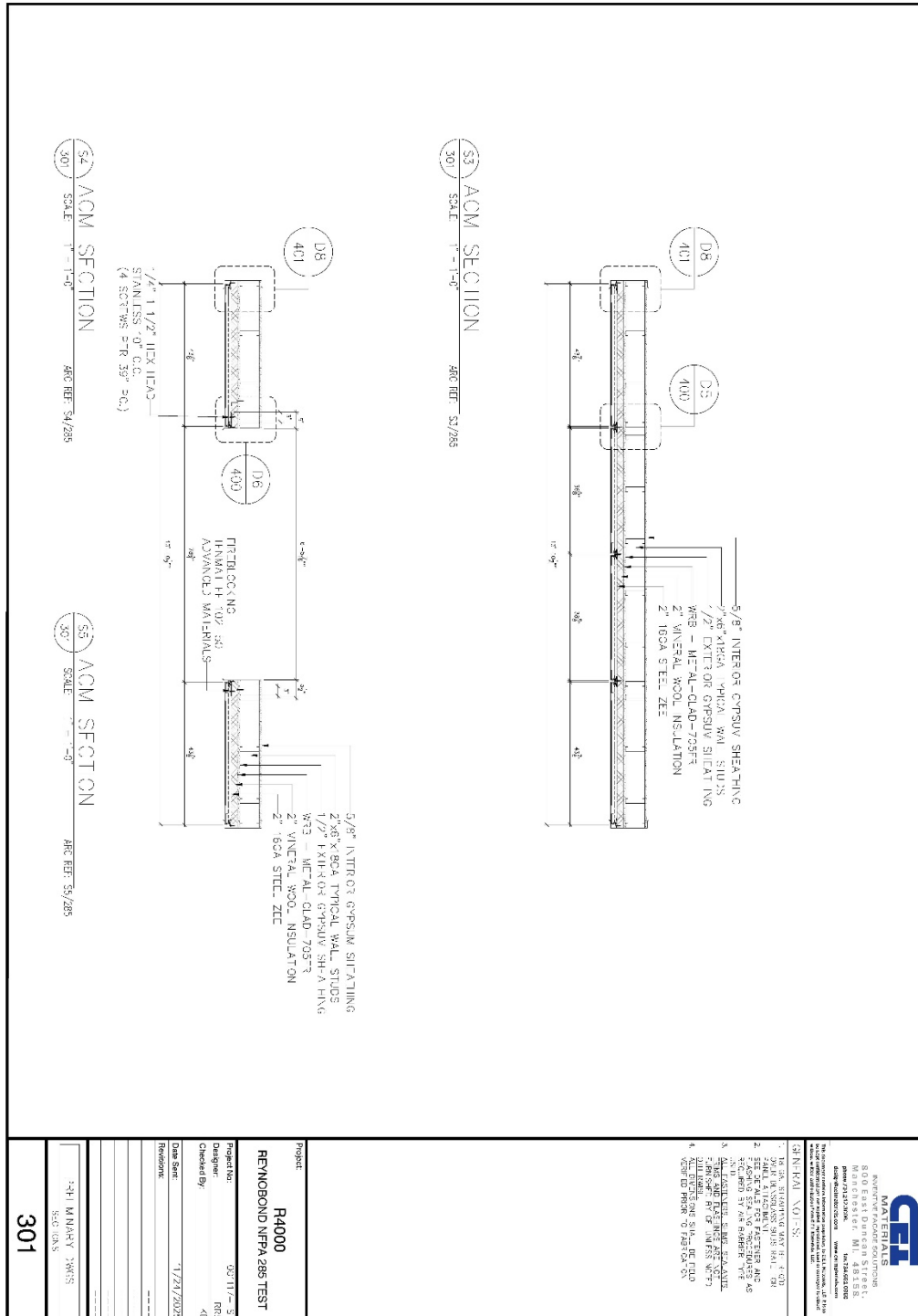
Date: 03/10/26



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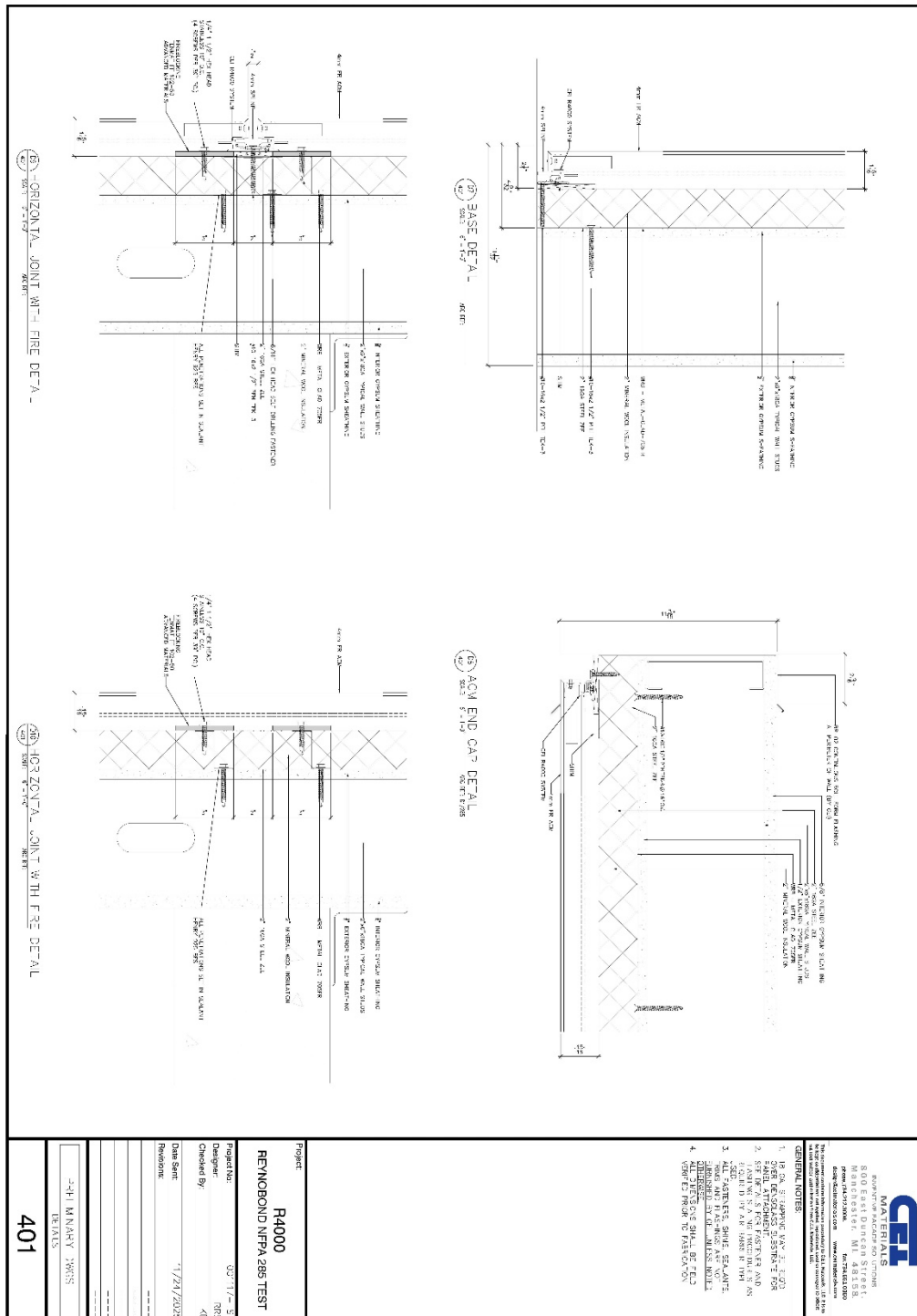
Date: 03/10/26



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SECTION 14

REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	03/10/26	N/A	Original Report Issue