

GRANDVIEW TEST REPORT

SCOPE OF WORK

CAN/ULC S134, STANDARD METHOD OF FIRE TESTS OF EXTERIOR WALL ASSEMBLIES

REPORT NUMBER

G104543835SAT-001 R0

TEST DATE(S)

08/05/21

ISSUE DATE

08/19/21

[REVISED DATE]

N/A

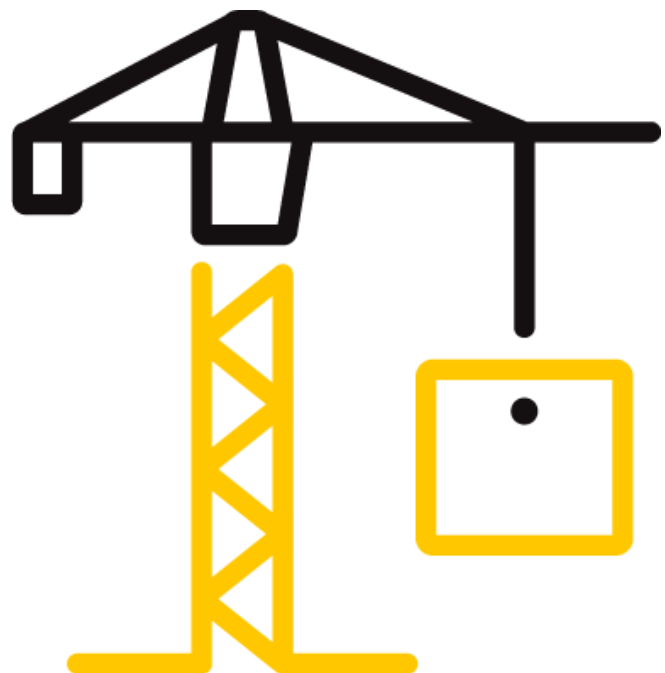
PAGES

27

DOCUMENT CONTROL NUMBER

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

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TEST REPORT FOR GRANDVIEW

Report No.: G104543835SAT-001 R0

Date: 08/19/21

REPORT ISSUED TO

GRANDVIEW

#570-999 West Broadway
Vancouver, BC V5Z 1K5
Canada

SECTION 1

SCOPE

Intertek Testing Services NA, Inc. dba Intertek Building & Construction (B&C) was contracted by Grandview EAS Building Systems Corp., #570-999 West Broadway, Vancouver, BC V5Z 1K5, to perform testing in accordance with CAN/ULC-S134, *Standard Method of Fire Test of Exterior Wall Assemblies*, on their Aluminum composite panel system. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek Testing Services 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 – Building and Construction	TITLE:	Senior Project Engineer
SIGNATURE:		SIGNATURE:	
DATE:	09/14/21	DATE:	09/14/21

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SECTION 2

SUMMARY OF TEST RESULTS

The assembly described and tested in this report **met** the Conditions of Acceptance of **CAN/ULC-S134, Standard Method of Fire Tests of Exterior Wall Assemblies, 2nd Edition, dated August 2013 (R2018)**. Construction of the full assembly is summarized in Section 8 of this test report.

SECTION 3

TEST METHOD(S)

The specimen was evaluated in accordance with the following:

CAN/ULC-S134-2013, *Standard Method of Fire Test of Exterior Wall Assemblies; 2nd Edition, dated August 2013 (Reaffirmed 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.

The test samples (sample ID SAT2107071727-001 & SAT2107071727-002) were received by the test facility on 07/7/21.

SECTION 5

EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
170199540	Stopwatch	Fisherbrand	02/24/22
HB9002195	DAQ Unit	Yokogawa	02/05/22
10340423	Thermo/Hygrometer	Omega	09/02/21
17331	Anemometer	Adafruit	08/24/21
17332	Anemometer	Adafruit	08/24/21
17334	Anemometer	Adafruit	08/24/21
189854	Radiometer	Medtherm	03/02/22
215262	Radiometer	Medtherm	10/30/21

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215263	Radiometer	Medtherm	03/02/22
2642089	Gas Flow Transducer	Rosemount	10/06/21
461564	E-Type TC	Omega	10/06/21
1217181017	Gas Pressure Transducer	Omega	10/06/21

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Adrian Law	Grandview (Remote witness Via Microsoft Teams)
Cherie Ho	Grandview (Remote witness Via Microsoft Teams)
Joseph DeRose	Intertek B&C (Remote witness Via Microsoft Teams)
Paul Tran	Intertek B&C (Remote witness Via Microsoft Teams)
Andres Olmos	Intertek B&C
Adriana Machuca	Intertek B&C
Emmanuel Ogoe	Intertek B&C

SECTION 7

TEST PROCEDURE

Testing was performed on 08/05/2021 in accordance with the CAN/ULC-S134 test method. Ambient conditions were 25.1°C and 90.3% relative humidity. Anemometers were used to verify ambient air velocity did not exceed 2 m/s as specified in the test method. Video recording, digital photographs, visual observations, and data collection were performed prior, during, and after testing was completed. All observations are recorded in the table located in Section 9.

In accordance with CAN/ULC-S134, once ambient conditions are met, the pilot burners are lit. The test then starts with the ignition of the burners. The burners proceed, controlled as specified in the test method, with a 5 min growth period, followed by a 15 min steady state period, followed by a 5 min ramp down period to zero.

Three water cooled heat flow transducers (0-100 kW/m²) were installed through the test specimen and the front wall of the test chamber 3.5 m above the top of the window opening; one within 0.2 m ± 0.05 m horizontally of the center line of the opening and one on each side and within 0.5 ± 0.1 m horizontally from the first. The transducers were installed so that their sensing faces were flush with the outer face of the test specimen. 24 GA (0.51 mm), Type K bare beaded thermocouples were used to monitor temperature of the specimen and were located approximately 89 mm to the right of the vertical center line and above the opening at 1.5 ± 0.05 m, 2.5 ± 0.05 m, 3.5 ± 0.05 m, 4.5 ± 0.05 m, 5.5 ± 0.05 m. At each of these levels, one thermocouple

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was installed on the outermost ridge of the test specimen, and one on the outer face of each representative layer within the specimen and one on the apparatus base wall surface.

The assembly was instrumented with fifteen (15) thermocouples, at the prescribed heights, as follows:

- TCs 1-5: (Layer 1) Flush with exterior ACM panels at 1.5 m, 2.5 m, 3.5 m, 4.5 m, and 5.5 m, respectively.
- TCs 6-10: (Layer 2) On the 2-inch thick mineral wool surface 1.5 m, 2.5 m, 3.5 m, 4.5 m, and 5.5 m, respectively
- TCs 11-15: (Layer 3) On the exterior Henry Blueskin SA water resistive barrier surface at 1.5 m, 2.5 m, 3.5 m, 4.5 m, and 5.5 m, respectively.

SECTION 8**TEST SPECIMEN DESCRIPTION****Exterior Sheathing**

The concrete base wall was sheathed with one-layer of 1/2 in. thick type X gypsum sheathing.

Vapor Barrier

A thin coat of Henry Blueskin SA liquid primer was applied onto the sheathing with a roller. One layer of Henry Blueskin SA water resistive barrier (36" wide x 75' rolls) was installed over the primer with the long dimension oriented vertically on the wall and self-adhered into place.

Framing

18 GA galvanized steel, 1-1/2 in. x 2 in. x 1-1/2 in. z-bar was installed onto the vapor barrier, spaced at nominal 60 in. up the entire wall assembly. 18 GA galvanized steel, 3 in. x 2 in. x 2 in. J-bar was installed at the base of the wall, windowsill and header, and at the top of the wall. The Z-bars and J-bars were installed using 1/4 in. x 2 in. concrete screw anchors, spaced at 16 in. o.c.

Insulation

24 in. x 48 in. x 2 in. thick mineral wool, with a density of 4 pcf, was used between the vapor barrier and ACM panel, held in place with 3-3/4 in. long concrete anchors and 2-inch wide round washers, using two fasteners and washers per piece of insulation

Exterior Panels

Exterior ACM panels were attached to the girts using 2 in. aluminum panel clip extrusions. These were spaced at 16 in. oc. The clip extrusions were installed using 1 in. long panhead self-drilling screws, one screw per panel clip. The panels were installed leaving a nominal 3/4" gap between panels edges, vertically and horizontally.

Window opening

The window opening jambs, sill and header were lined with 16GA steel flashing, width of 10 in. with 1 in. thick, 6 pcf ceramic fiber blanket.

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See **Section 14** for detailed drawings of the test assembly.

SECTION 9

TEST OBSERVATIONS

FIRE-RESISTANCE TEST OBSERVATIONS	
Time (min:sec)	Observations
00:00	Test start at 11:32 am
03:27	Flames exiting window
04:22	Panels above window opening warping
04:40	Flame height at 1 meter above opening
08:00	Panels above window opening burning
09:00	Flaming at window header
09:40	Center flame at 2.5 meters above opening
10:20	Debris falling
11:00	Flame tips at 3 meters in center
11:50	Flaming behind panels
15:20	Flaming behind panels at 3 meters
25:00	Gas off, residual flaming at window header
38:00	Flaming at header out
60:00	End of observation period

SECTION 10

TEST RESULTS

The acceptance criteria in accordance with Clause 10.2 of the standard has the following requirements:

- Flaming on or in the wall assembly shall not spread more than 5 m above the opening in the test specimen.
- The average heat flux shall not be more than 35 kW/m² measured 3.5 m above the opening in the test specimen.

Data for the three radiometers installed at the 3.5 m height above the window is listed in the table below. The maximum flame spread observed above the window opening was 3 m. The maximum average heat flux determined as required by the standard was 32.8 kW/m².

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Time (min)	Left Radiometer 1 min Avg. (kW/m ²)	Right Radiometer 1 min Avg. (kW/m ²)	Center Radiometer 1 min Avg. (kW/m ²)	Visual Flame Height (meters)
0:00	-1.55	-1.57	-1.44	0
1:00	-1.85	-1.54	-1.58	0
2:00	-1.24	-1.29	-1.38	0
3:00	-1.48	-0.60	-1.18	0
4:00	-0.53	2.19	0.23	1
5:00	0.81	4.07	1.64	1.5
6:00	2.45	4.29	1.62	2
7:00	3.17	7.13	3.05	2
8:00	2.60	8.28	3.46	2
9:00	2.22	10.44	2.03	2
10:00	3.16	9.75	1.65	2.5
11:00	3.43	15.46	2.12	3
12:00	3.54	26.88	2.78	3.5
13:00	2.99	26.42	4.23	3.5
14:00	4.30	23.53	4.30	3
15:00	5.93	22.42	6.92	2.5
16:00	10.10	20.75	11.46	3
17:00	11.06	19.41	14.04	3
18:00	13.10	21.76	16.61	3
19:00	12.37	23.48	15.79	2
20:00	11.74	25.22	15.00	2
21:00	12.23	17.46	16.02	1
22:00	7.95	11.83	11.14	0.5
23:00	5.39	8.54	7.53	0
24:00	5.17	6.09	5.69	0
25:00	2.97	4.25	4.32	0
26:00	1.77	2.50	3.21	0
27:00	1.00	1.91	2.24	0
28:00	-0.05	1.31	1.29	0
29:00	0.02	0.82	1.14	0
30:00	-0.20	0.54	0.82	0
31:00	-0.56	0.42	0.41	0
32:00	-0.79	0.41	0.32	0

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33:00	-0.64	0.39	0.29	0
34:00	-0.59	0.22	0.22	0
35:00	-0.74	0.06	0.19	0
36:00	-0.67	-0.08	0.07	0
37:00	-0.71	-0.21	-0.27	0
38:00	-0.83	-0.24	-0.14	0
39:00	-1.10	-0.06	-0.34	0
40:00	-0.71	-0.22	-0.03	0
41:00	-0.93	-0.29	-0.27	0
42:00	-0.74	-0.21	-0.32	0
43:00	-1.00	-0.37	-0.39	0
44:00	-1.00	-0.54	-0.57	0
45:00	-0.99	-0.48	-0.56	0
46:00	-0.89	-0.63	-0.43	0
47:00	-1.17	-0.48	-0.58	0
48:00	-0.95	-0.67	-0.71	0
49:00	-1.19	-0.69	-0.68	0
50:00	-1.35	-0.73	-0.70	0
51:00	-0.95	-0.80	-0.69	0
52:00	-1.09	-0.75	-0.74	0
53:00	-1.05	-0.73	-0.74	0
54:00	-1.19	-0.89	-0.84	0
55:00	-1.22	-0.85	-0.87	0
56:00	-1.30	-0.82	-0.76	0
57:00	-1.22	-0.90	-0.84	0
58:00	-1.19	-0.93	-1.18	0
59:00	-1.19	-0.91	-0.59	0
60:00	-1.05	-1.00	-0.83	0

SECTION 11
CONCLUSION

The Grandview EAS Building Systems wall system Grandview Series 35 ACM panels **met** the conditions of acceptance outlined in **CAN/ULC S134-2013**, Standard Method of Fire Test of Exterior Wall Assemblies 2nd Edition, dated August 2013 (Reaffirmed 2018).

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SECTION 12

PHOTOGRAPHS

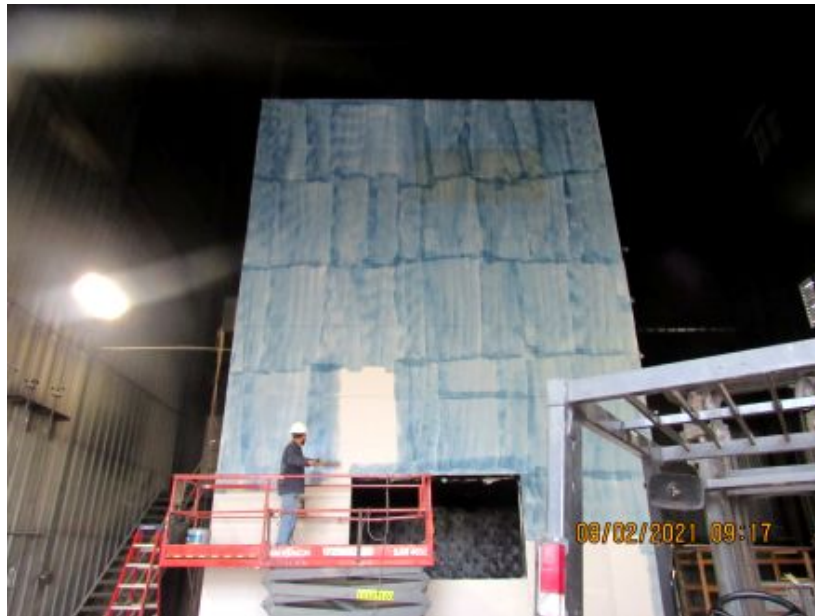


Photo No. 1
Primer installed



Photo No. 2
Vapor barrier

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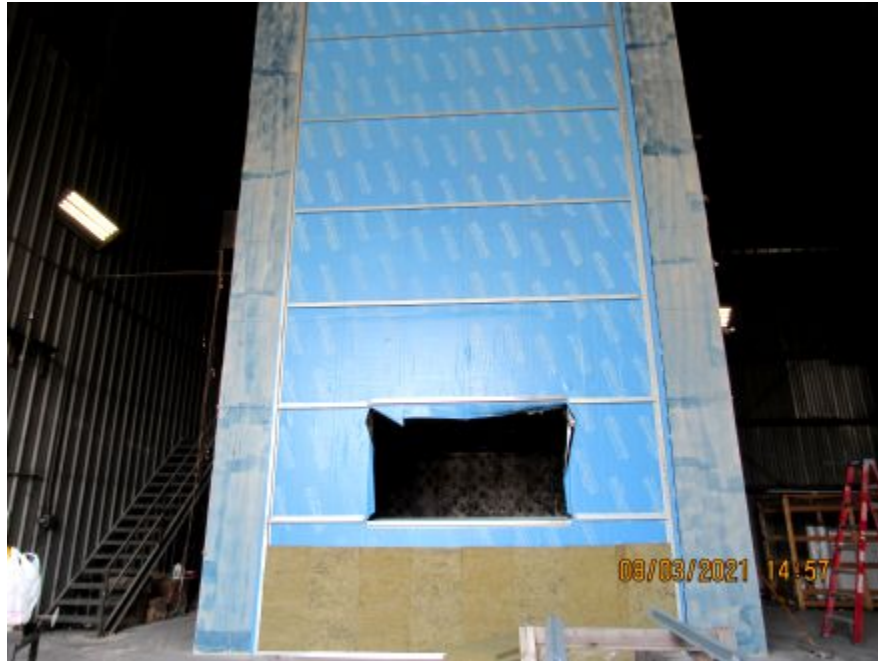


Photo No. 3
Vapor barrier installed with z girts



Photo No. 4
Z girt attachment spacing

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Photo No. 5
Insulation installed

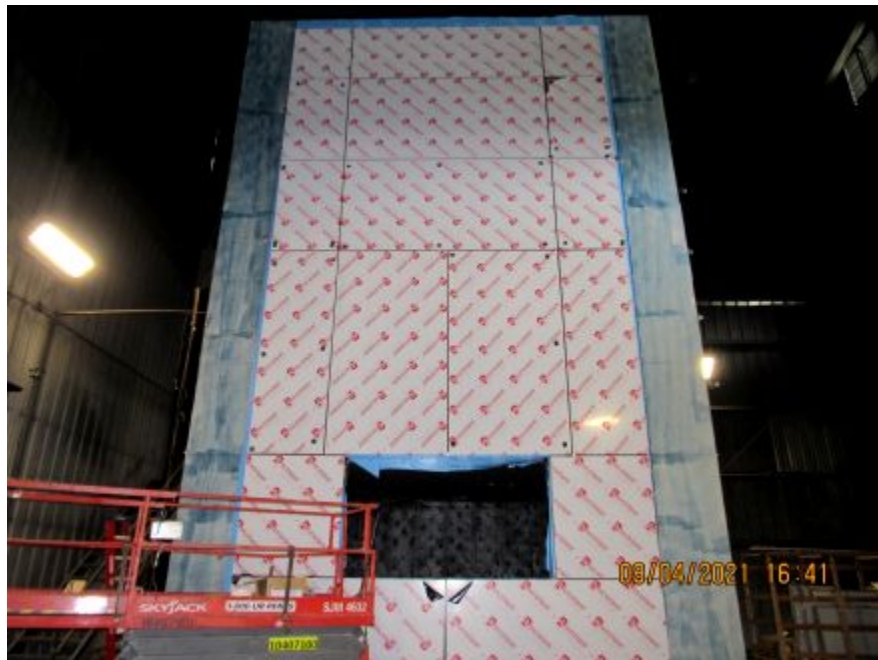


Photo No. 6
Panels installed

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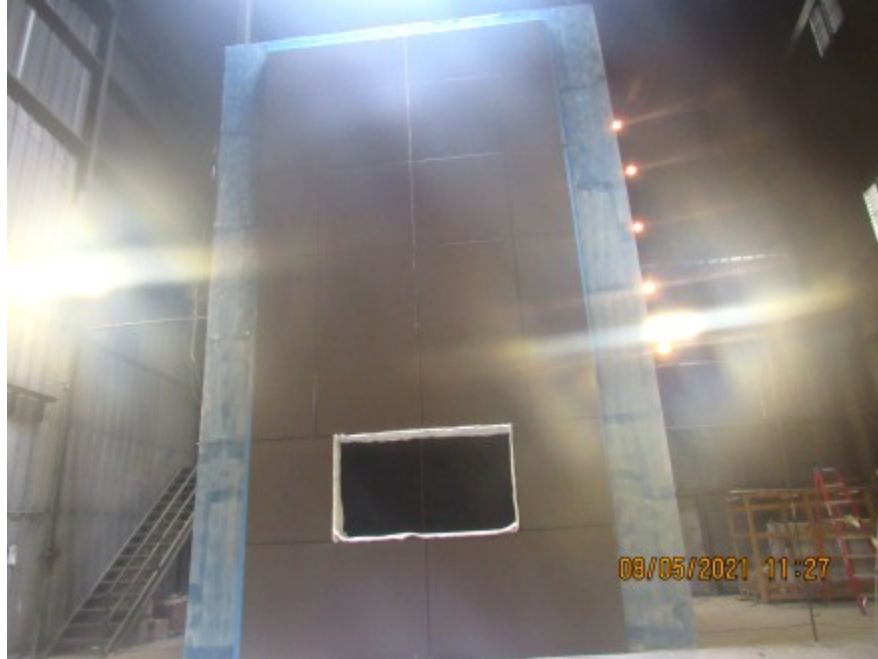


Photo No. 7
Test setup



Photo No. 8
Start of test

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Photo No. 9
Flames exiting window opening



Photo No. 10
Flame tips at 1 meter

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Photo No. 11
Increased flaming



Photo No. 12
Flaming at window header

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Photo No. 13
Debris falling



Photo No. 14
Flaming up center to 3 meters

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Photo No. 15
Gas off, residual flaming at header



Photo No. 16
Window header post-test

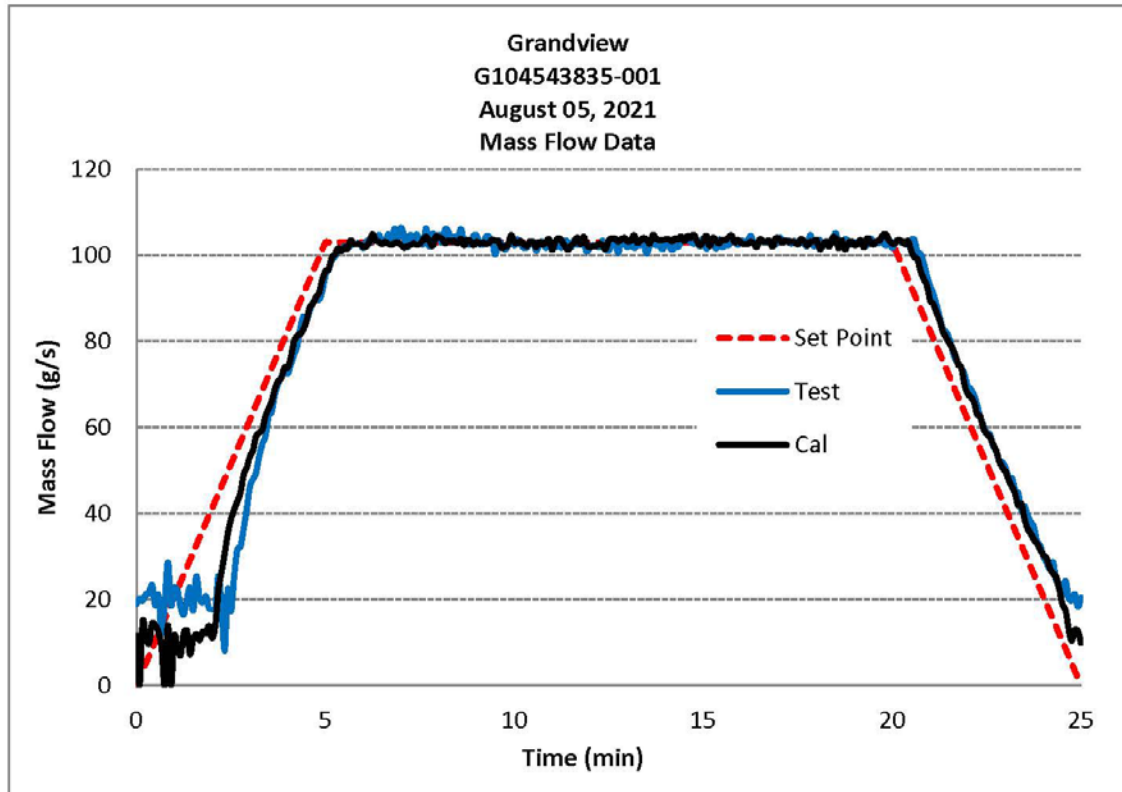
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SECTION 13

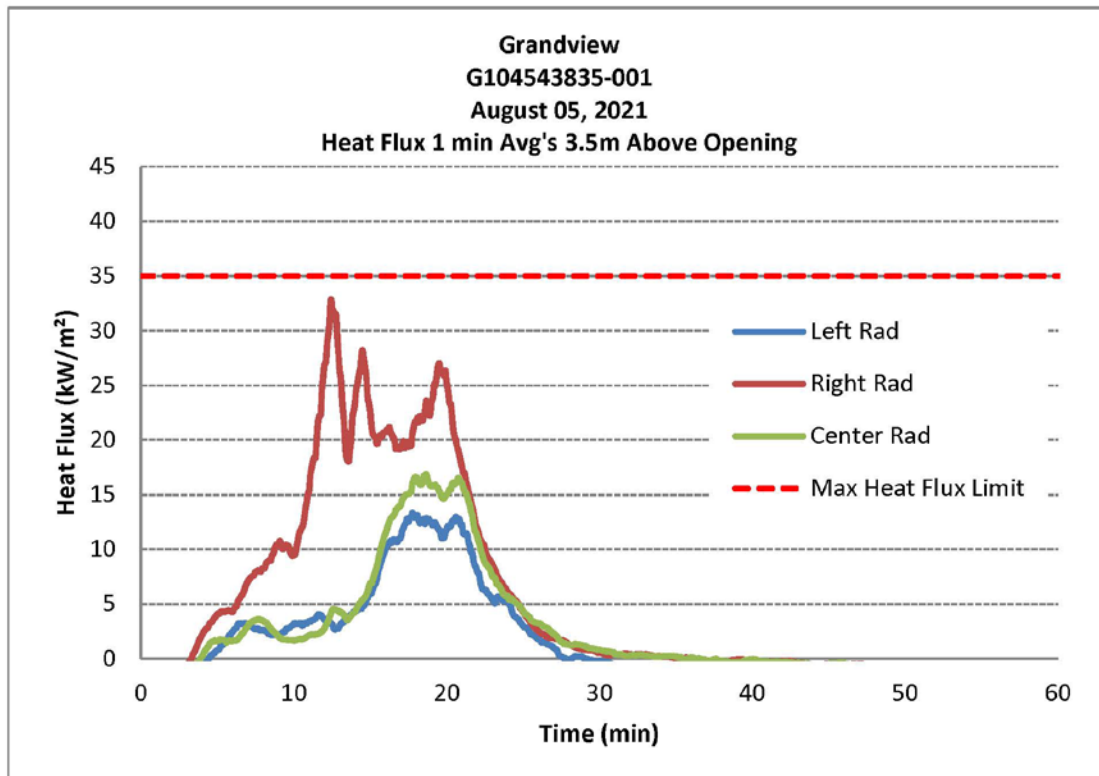
GRAPHS



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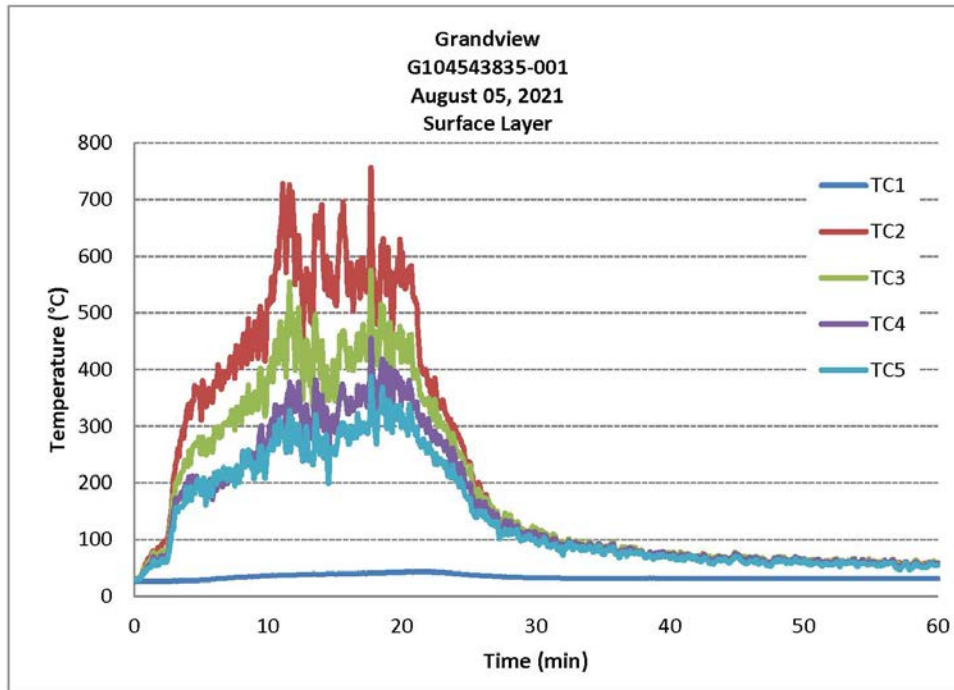
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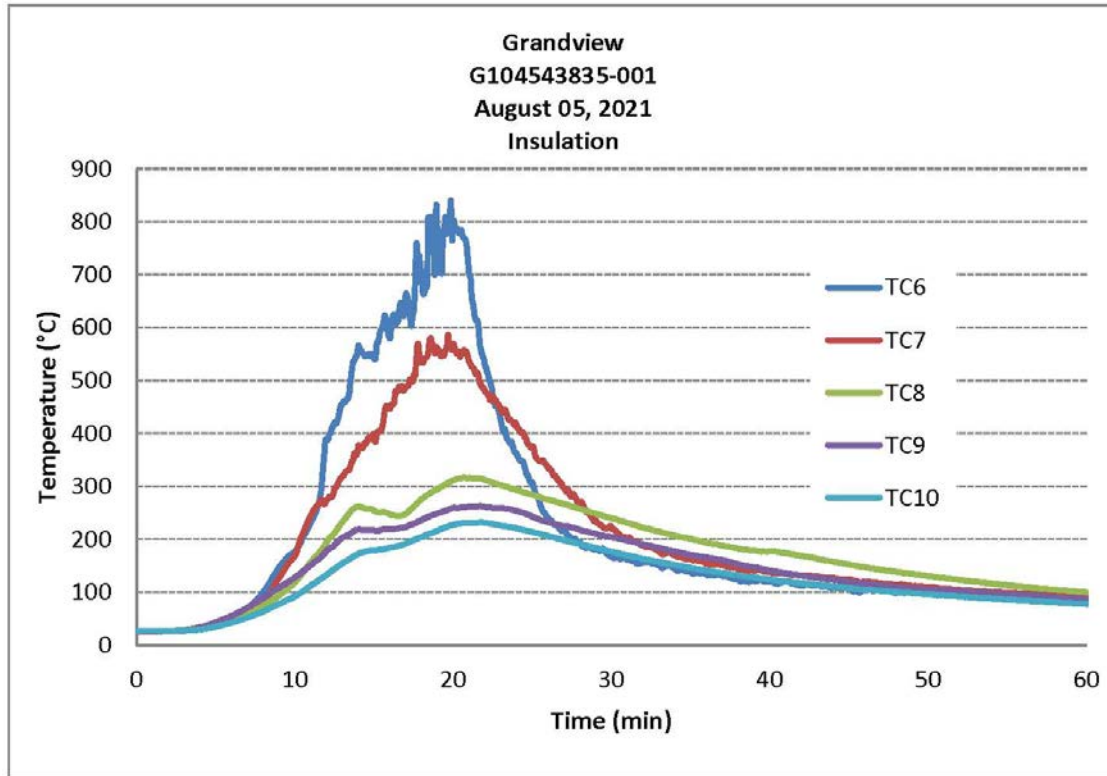


NOTE: TC1 READING AMBIENT TEMPERATURES DUE TO TC WIRES CROSSED AT CONNECTOR

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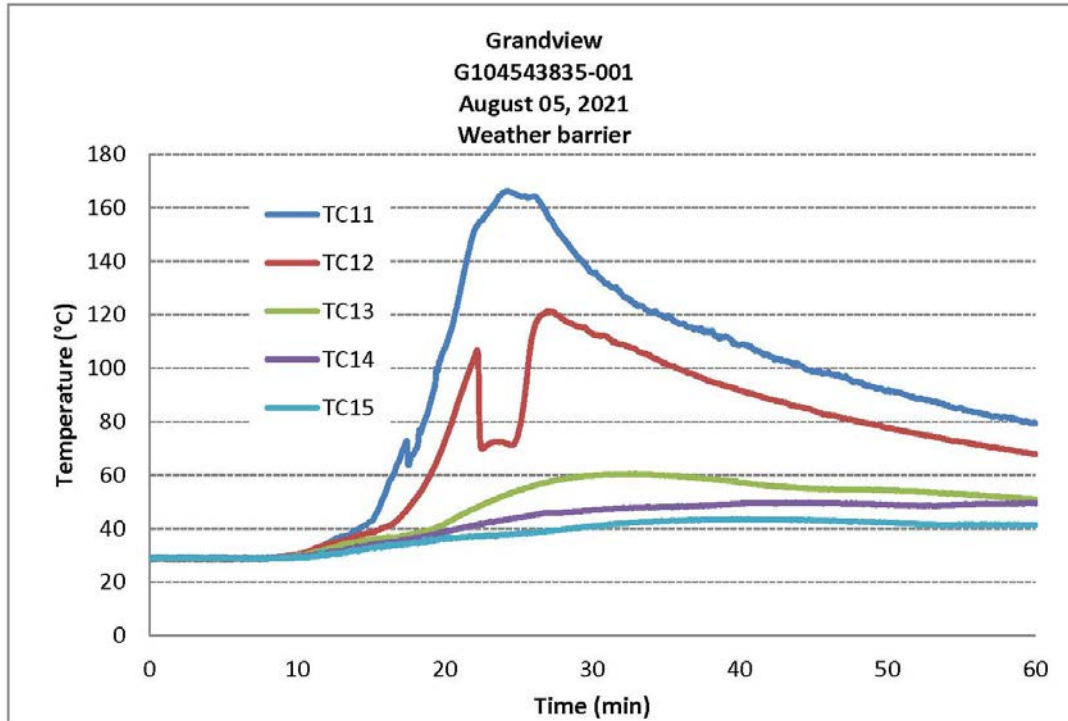
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SECTION 14

DRAWINGS

The "As-Built" drawings for the Grandview CAN/ULC S134 test; Sheet Nos. 1-4 and dated February 2021; 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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PROJECT

GRANDVIEW SERIES 35 ACM PANEL SYSTEM
ULC-S134 TESTING

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C1-----COVER
C2-----COMPONENTS
P1-----ELEVATIONS
P2-----DETAILS

PANEL INSTALLER

INTERTEK LABORATORY










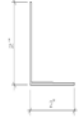
PANEL SUPPLIER

GRANDVIEW EAS
#570 - 999 WEST BROADWAY
VANCOUVER, BC V5Z 1K5

 GRANDVIEW EAS BUILDING SYSTEMS CORP. #570-999 WEST BROADWAY VANCOUVER, BC V5Z 1K5 TEL: (604) 674-8828	
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<small>PROJECT:</small> GRANDVIEW SERIES 35 ACM PANEL SYSTEM ULC-S134 TESTING	
<small>BY:</small> INTERTEK 16015 SHADY FALLS ROAD ELMENDORF, TX 78112	
<small>TITLE:</small> COVER PAGE	
<small>SCALE:</small> 1/8" = 1'-0"	<small>DATE:</small> 2/10/22
<small>PROJECT NO.:</small> ULC-8104	<small>REVISION:</small> 0

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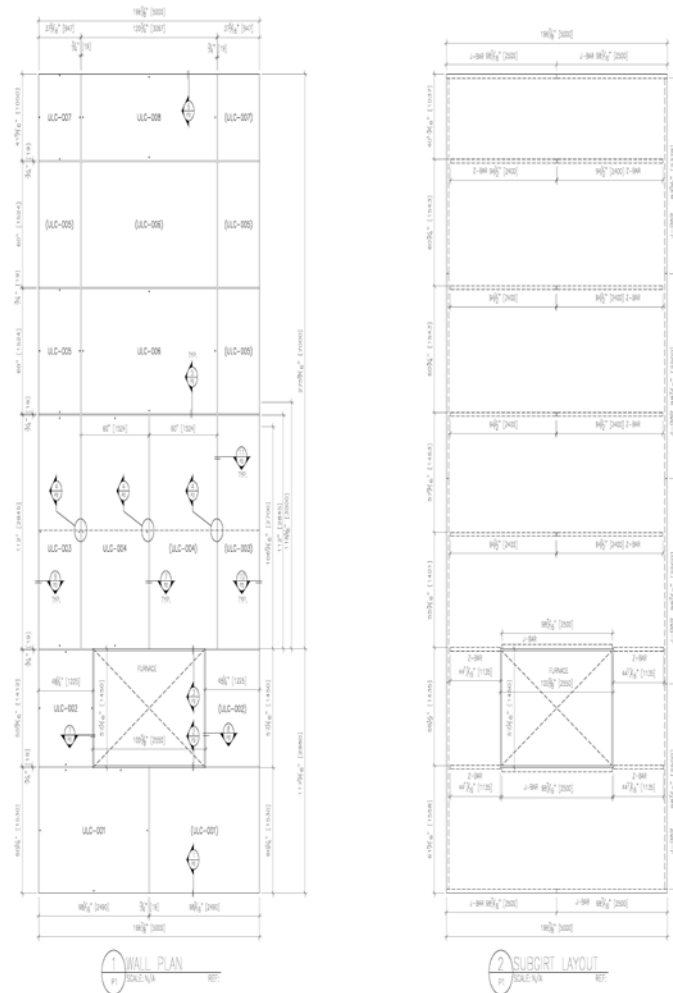
 <p>(B1) ACM SPINE DESCRIPTION: ACM SPINE - APPLIED BETWEEN PANELS AT BOTH HORIZONTALLY AND VERTICALLY JOINTS. SITE APPLIED FINISH MATCH PANELS Material: ACM QUANTITY: 20 PCS @ 18" (2400mm)</p>	 <p>DESCRIPTION: #10 X 1" PAN/HEX TEK W/ #3 DRILL POINT STAINLESS STEEL. 18-8 (COLDWORKED) SELF TAPPING SCREW WITH 1" LENGTH ADAPTABLE TO ENGAGE METAL SUBSTRATE. A MINIMUM OF 3 PITCHES OF THREAD TO MAINTAIN FULL STRENGTH. MINIMUM EDGE DISTANCE AND SPACING SHALL BE NOT LESS THAN 1.5 TIMES DIAMETER OF SCREW. APPLICATION: 1. PANEL CLIP TO J-BAR AND Z-BAR 2. J-TRACK TO J-BAR AND Z-BAR 3. TO DISCREET BAR TO J-BAR AND Z-BAR RECOMMENDATION: #10 PHEN TEX/S SELECT BY ITW BULDEX (LAB: PR25195) QUANTITY: 200 PCS</p>
 <p>(B2) J-TRACK CONTINUOUS ALUMINUM EXTRUSION DESCRIPTION: ALUMINUM EXTRUSION THAT ENGAGES POCKET OF PANEL PERIMETER EXTRUSION FOR THE PURPOSES OF FASTENING PANEL SYSTEM TO SUBSTRATE FIELD APPLIED UNISA - 701 QUANTITY: 4 PCS @ 18" (2500mm)</p>	 <p>DESCRIPTION: DRIFT TO SUBSTRATE / CONCRETE BLOCK 1/2" X 2" CONCRETE SCREW ANCHOR WITH 15" MIN. EMBEDMENT INTO MASONRY APPLICATION: Z-BAR AND J-BAR TO MASONRY SUBSTRATE QUANTITY: 200 PCS</p>
 <p>(C1) PANEL CLIP EXTRUSION (C1) DESCRIPTION: 2" ALUMINUM EXTRUSION THAT ENGAGES PANEL PERIMETER EXTRUSION FOR PURPOSE OF FASTENING PANEL SYSTEM TO SUBSTRATE FIELD APPLIED UNISA - 701 QUANTITY: 50 PCS @ 2" CLIPS (50mm)</p>	 <p>DESCRIPTION: INSULATION PIN 1/2" X 35" CONCRETE SCREW ANCHOR WITH 15" MIN. EMBEDMENT INTO MASONRY APPLICATION: INSULATION PIN WITH WASHER QUANTITY: CONSULT INSULATION SUPPLIER FOR SIZE AND QUANTITY WALL COVERING NEEDED: 600 SF INSTALL: AS PER RECOMMENDED MANUFACTURE INSTALLATION INSTRUCTIONS</p>
 <p>(B1) Z-BAR 18 GAUGE GALVANIZED BREAK SHAPE BREAK TO DIMENSIONS SHOWN QUANTITY: 12 PCS @ 14.5" (2400mm)</p>	 <p>DESCRIPTION: INSULATION PIN WASHER WASHERS USED WITH CONCRETE SCREW ANCHOR F9 APPLICATION: INSULATION PIN WITH WASHER QUANTITY: CONSULT INSULATION SUPPLIER FOR SIZE AND QUANTITY WALL COVERING NEEDED: 600 SF INSTALL: AS PER RECOMMENDED MANUFACTURE INSTALLATION INSTRUCTIONS</p>
 <p>(B2) J-BAR 18 GAUGE GALVANIZED BREAK SHAPE BREAK TO DIMENSIONS SHOWN QUANTITY: 15 PCS @ 18" (2500mm)</p>	<p>INSULATION: 2" - THICK ALUMINUM MINERAL WOOL INSTALL: INSULATION WITH 35" TAPCON MASONRY FASTENERS AND FLAT WASHERS INSTALL: AS PER MANUFACTURE LITERATURE</p>
 <p>(B1) Z-BAR 18 GAUGE GALVANIZED BREAK SHAPE BREAK TO DIMENSIONS SHOWN QUANTITY: 15 PCS @ 18" (2500mm)</p>	<p>MEMBRANE: HENRY BLUESEK SA WATER RESISTIVE BARRIER APPLY BLUESEK SA PRIMER / ADHESIVE OVER EXTERIOR SHEATHING BEFORE MEMBRANE APPLICATION INSTALLATION: AS PER MANUFACTURE LITERATURE</p>

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SITE:	INTERTEK 16015 SHADY FALLS ROAD ELMENDORF, TX 78112				
TITLE:	SPECIFICATIONS				
SCALE:	REV:	DATE:	BY:	CHKD:	APPD:
		2/10/2021	DP	DP	DP
PROJECT NO:	DRWING NO:	REVISION:			
ULC-8194	C2	0			

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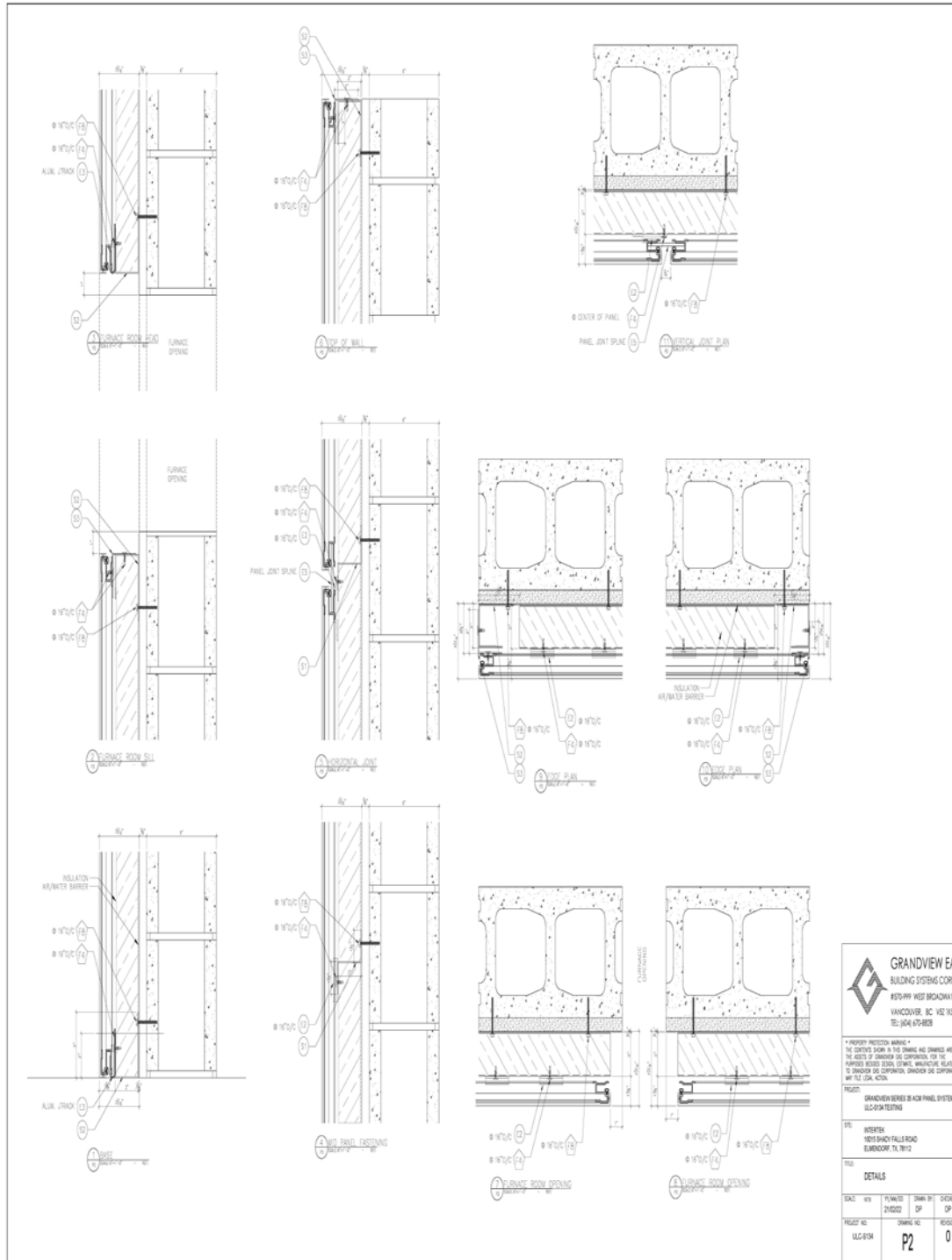


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PROJECT:	GRANDVIEW EAST BUCHANAN FRANKLIN SYSTEM GLEASON TESTING			
SITE:	INTERVIEW 1850 BAYVIEW FALLS ROAD NEWBRIDGE, FL 33912			
TITLE:	ELEVATIONS			
SCALE:	1/8" = 1'-0"	1/4" = 1'-0"	1/2" = 1'-0"	CHECKED DGP
PROJECT NO.	84-0134		DATE 2/20/82	REVISION 0

TEST REPORT FOR GRANDVIEW

Report No.: G104543835SAT-001 R0

Date: 08/19/21





Total Quality. Assured.

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TEST REPORT FOR GRANDVIEW

Report No.: G104543835SAT-001 R0

Date: 08/19/21

SECTION 15

REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	08/19/21	N/A	Original Report Issue