

# STAC, S.L.

# FIRE TEST REPORT

## SCOPE OF WORK

CAN/ULC S134, STANDARD METHOD OF FIRE TESTS OF EXTERIOR WALL ASSEMBLIES  
CONTAINING PANNEAUX 3D ACM PANELS WITH 4 MM FR BY STACBOND

## REPORT NUMBER

103816489SAT-003

## TEST DATE

06/14/19

## ISSUE DATE [REVISED DATE]

06/17/19 N/A

## RECORD RETENTION END DATE

06/17/29

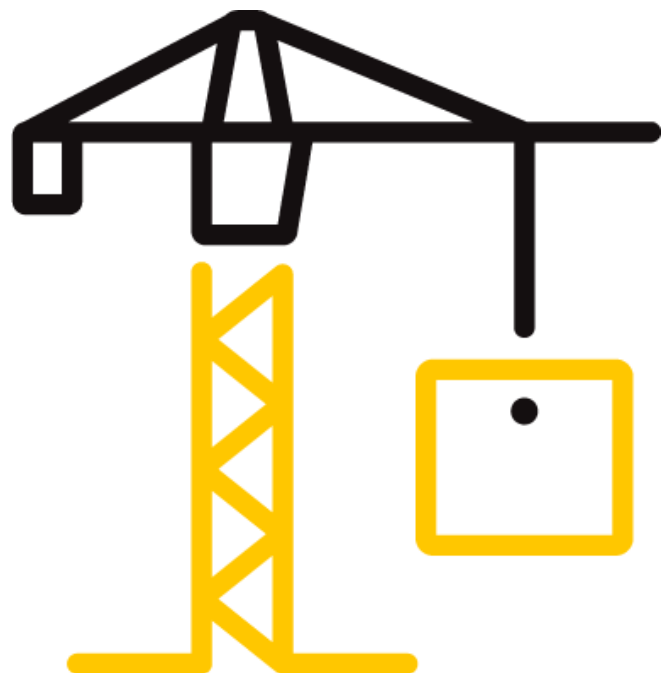
## PAGES

35

## DOCUMENT CONTROL NUMBER

GFT-OP-10C

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## TEST REPORT FOR STAC, S.L.

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Date: 06/17/19

### REPORT ISSUED TO

#### STAC S.L.

Poligono Industrial Picusa S/N  
15900 Padron  
A Coruna  
SPAIN

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by STAC S.L., Poligono Industrial Picusa S/N, 15900 Padron, A Coruna, SPAIN to evaluate resistance to flame propagation in accordance with **CAN/ULC-S134, Standard Method of Fire Test of Exterior Wall Assemblies, 2<sup>nd</sup> Edition, dated August 2013**, on Panneaux 3D ACM Panels with 4 mm StacBond FR. Testing was conducted at the Intertek B&C test facility in Elmendorf, Texas, USA. Results obtained are tested values and were secured by using the designated test method.

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

### SECTION 2

#### SUMMARY OF TEST RESULTS


**Wall System:** Exterior Wall Assembly

**Combustible Components:** Panneaux 3D ACM Panels with 4 mm StacBond FR

#### CAN/ULC S134 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, 2<sup>nd</sup> Edition, dated August 2013**. Construction of the full assembly is summarized in Section 9 of this test report.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Abel de Hoyos	<b>REVIEWED BY:</b>	Herbert W. Stansberry II
<b>TITLE:</b>	Senior Project Manager – Fire Resistance	<b>TITLE:</b>	Program Manager, Building & Construction
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	06/21/19	<b>DATE:</b>	06/24/19

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### SECTION 3

#### TEST METHOD(S)

The assembly was evaluated in accordance with the following:

**CAN/ULC-S134**, *Standard Method of Fire Test of Exterior Wall Assemblies*, 2<sup>nd</sup> Edition, dated August 2013

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

Samples were selected by Intertek representative Juan M. Flores on 03/11/19 and 03/12/2019 at the STAC S.L. manufacturing facility located at Poligono Industrial La Rozada, Parcela 2, Calle Isaac Prado Bodelon, 24516 Toral De Los Vados, Parandones, Leon, SPAIN. The samples were received at the Evaluation Center on 06/03/19 and were assigned Intertek Sample ID No. SAT1906031657-001. The samples contained the mark of the inspector.

The subject test specimens are traceable samples selected from the manufacturer's facility. Intertek selected the specimens and has verified their composition, manufacturing techniques and quality assurance procedures

### SECTION 5

#### CALIBRATED INSTRUMENTATION USED FOR TESTING

Description	Serial No.	Calibration Due Date
Stopwatch	170558059	08/02/19
DAQ Unit	HB9002195	08/03/19
Thermo/Hygrometer	170747548	10/16/19
Anemometer	17339	10/04/19
Anemometer	17338	10/04/19
Anemometer	17337	10/04/19
Anemometer	173310	10/04/19
Radiometer	206351	10/04/19
Radiometer	189853	10/04/19
Radiometer	189854	10/04/19
Gas Flow Transducer	2642089	10/04/19
E-Type TC	461564	10/04/19
Gas Pressure Transducer	1026161022	10/04/19

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### SECTION 6

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Marcos Garcia	STAC, S.L.
Anxo Faya Regars	STAC, S.L.
Emmanuel Ogoe	Intertek B&C
Juan M. Flores	Intertek B&C
Chris Owen	Intertek B&C
Abel de Hoyos	Intertek B&C

### SECTION 7

#### TEST PROCEDURE

Testing was performed on 06/14/2019 in accordance with the CAN/ULC S134 test method. Ambient conditions were 30°C and 58% 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. The test was performed at 11:00 AM. All observations are recorded in the table located in Section 8.

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/m<sup>2</sup>) 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. Two (2) layers of 24 GA (0.51 mm), Type K bare beaded thermocouples were used to monitor temperature of the specimen and were located on 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 was installed on the interface between the weather barrier and the air cavity behind the panels and at the outer layer of the specimen.

The output of the transducers and thermocouples were monitored by a National Instruments CDAQ-9188 Data Acquisition Unit. The data acquisition system was programmed to scan and save

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data every 5 seconds. Following the test, the files were imported into MS Excel for graphical display. The graphical display data can be found in Section 13.

### SECTION 8

#### TEST OBSERVATIONS

FIRE-RESISTANCE TEST OBSERVATIONS	
Time (Min:Sec)	Observations
Pre-test	Nothing to note
00:00	Test started at 11:00 A.M.
03:20	Flames tips coming out of burn room opening
04:30	Soot deposits collecting on panels directly above opening
06:00	Flame tips at 2 m
06:10	Panels directly above opening beginning to warp
07:10	Intermittent flaming on right side panel above opening
08:00	Flame tips at 2.5 m
10:00	Flaming on left side panel above opening, flame tips at 2.5 m
10:50	Flaming at center of widow header
12:00	Flaming droplets falling
13:00	Flame tips at 3 m
14:00	Sustained flaming at 1 m
15:30	Sustained flaming at 2 m, flame tips at 3 m
17:00	Sustained flaming at 2.5 m
22:00	Flaming localized to above window header
25:00	Gas off, sustained flaming at window header
26:40	Visible sustained flaming self-extinguished
27:40	Small flaming behind right panel above opening
53:00	Small flaming behind right panel self-extinguished
60:00	End of test.

### SECTION 9

#### TEST SPECIMEN DESCRIPTION

The Panneaux 3D ACM Panels with 4 mm StacBond FR consisted of sub construction, sheathing, staple applied air and moisture barrier, flashing and the ACM panels.

Exposed side sheathing – 4 ft. by 10 ft. by 5/8 in. thick, Type X Gypsum installed with the long dimension perpendicular to the CMU block wall.

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Air Barrier – Vapro Shield® WrapShield® IT breathable air barrier. The installation was completed on 06/10/19.

ACM Panels and Wall Brackets – Pre-assembled panels incorporating aluminium extrusions, aluminium stiffeners and pre-attached wall bracket. Refer to Section 14 of this report for further details.

The assembly was completed on 06/13/19.

### SECTION 10

#### TEST RESULTS

Time (min)	Left Radiometer (1 min. Avg.)	Right Radiometer (1 min. Avg.)	Center Radiometer (1 min. Avg.)	Visual Flame Height (in meters)
0:00	-1.19	-0.97	-1.73	0
1:00	-0.96	-0.95	-0.45	0
2:00	-0.80	-0.69	-0.46	0
3:00	-0.50	-0.17	-0.05	.5 m
4:00	0.46	0.14	2.71	1 m
5:00	0.91	-0.16	3.95	1 m
6:00	0.86	-0.11	2.88	2 m
7:00	0.97	0.13	1.52	2 m
8:00	2.14	1.75	2.99	2.5 m
9:00	2.05	2.41	4.07	2.5 m
10:00	1.93	3.05	4.34	2.5 m
11:00	2.05	4.06	4.75	2.5 m
12:00	2.25	4.19	4.70	2.5 m
13:00	2.92	4.74	6.71	3 m
14:00	3.24	5.18	7.39	Flaming at 1 m
15:00	3.05	5.88	5.27	1 m
16:00	3.33	5.67	8.22	Flaming at 2 m
17:00	3.69	4.88	8.26	2.5 m
18:00	3.02	4.67	8.65	2.5 m
19:00	2.77	5.22	8.82	2.5 m
20:00	2.68	5.80	7.46	2.5 m
21:00	2.75	6.28	8.24	2.5 m
22:00	2.15	5.95	5.88	2.5 m
23:00	1.97	4.87	6.33	2.5 m
24:00	1.85	4.12	6.93	2.5 m

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Time (min)	Left Radiometer (1 min. Avg.)	Right Radiometer (1 min. Avg.)	Center Radiometer (1 min. Avg.)	Visual Flame Height (in meters)
25:00	1.42	4.08	7.90	Flaming at header
26:00	2.01	5.07	1.79	Flaming at header
27:00	1.17	4.27	5.71	Visible flaming out
28:00	1.60	3.19	-0.14	Flaming behind panel
29:00	1.01	4.24	0.19	1 m
30:00	0.13	3.92	1.14	1 m
31:00	-0.02	3.58	2.10	1 m
32:00	-0.44	3.26	5.72	1 m
33:00	0.78	2.92	-1.67	1 m
34:00	0.43	2.19	-7.72	1 m
35:00	-0.10	2.03	-5.88	1 m
36:00	0.40	1.85	4.14	1 m
37:00	-1.23	1.74	-2.25	1 m
38:00	1.20	1.53	-1.09	1 m
39:00	-0.29	1.44	-7.23	1 m
40:00	0.39	1.33	0.81	1 m
41:00	0.03	1.15	1.23	1 m
42:00	0.05	1.20	0.78	1 m
43:00	-0.01	1.11	0.77	1 m
44:00	0.17	1.10	1.26	1 m
45:00	0.13	1.07	2.01	1 m
46:00	-0.18	1.11	1.64	1 m
47:00	-0.21	1.03	1.22	1 m
48:00	0.42	1.09	1.98	1 m
49:00	-0.42	0.96	1.31	1 m
50:00	-0.28	1.05	0.81	1 m
51:00	-0.40	0.97	0.41	1 m
52:00	-0.18	0.86	0.85	1 m
53:00	0.02	0.83	1.19	Sustained Flaming out
54:00	-0.18	0.79	0.23	
55:00	-0.31	0.65	1.47	
56:00	-0.36	0.53	0.36	
57:00	-0.30	0.44	0.84	
58:00	-0.22	0.48	0.71	
59:00	-0.52	0.39	0.08	
60:00	-0.34	0.31	0.69	

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### SECTION 11

#### CONCLUSION

The STAC, S.L. exterior wall assembly containing, Panneaux 3D ACM Panels with 4 mm StacBond FR met the conditions of acceptance outlined in **CAN/ULC-S134, Standard Method of Fire Test of Exterior Wall Assemblies, 2<sup>nd</sup> Edition, dated August 2013.**



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### SECTION 12

#### PHOTOGRAPHS



**Photo No. 1**  
**Application of Weather Barrier**



**Photo No. 2**  
**Vapro Shield® WrapShield® IT Breathable Air Barrier**

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Photo No. 3  
Vapro Shield® Vapro Tape™

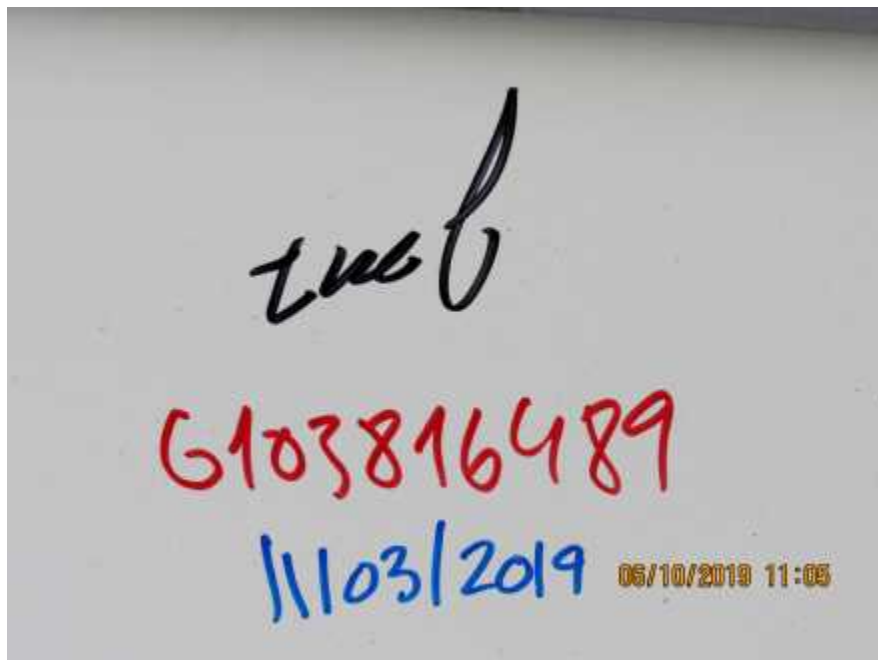


Photo No. 4  
Inspector's Signature, Project Number and Date

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**Photo No. 5**  
**Installation of J-Trim around Opening**



**Photo No. 6**  
**Installation of Vapro Shield® Vapro Tape™**

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**Photo No. 7**  
**Installation of Panels**



**Photo No. 8**  
**Completed Assembly**

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**Photo No. 9**  
**Beginning of Test**



**Photo No. 10**  
**Flames Coming Out of Opening**



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**Photo No. 11**  
**View During Test**



**Photo No. 12**  
**View During Test, Flaming Residue on Ground**

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**Photo No. 13**  
**Flaming Above Header**



**Photo No. 14**  
**Flaming Above Header**

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**Photo No. 15**  
**Sustained Flaming After End of Test**



**Photo No. 16**  
**Post Test View of Panels**



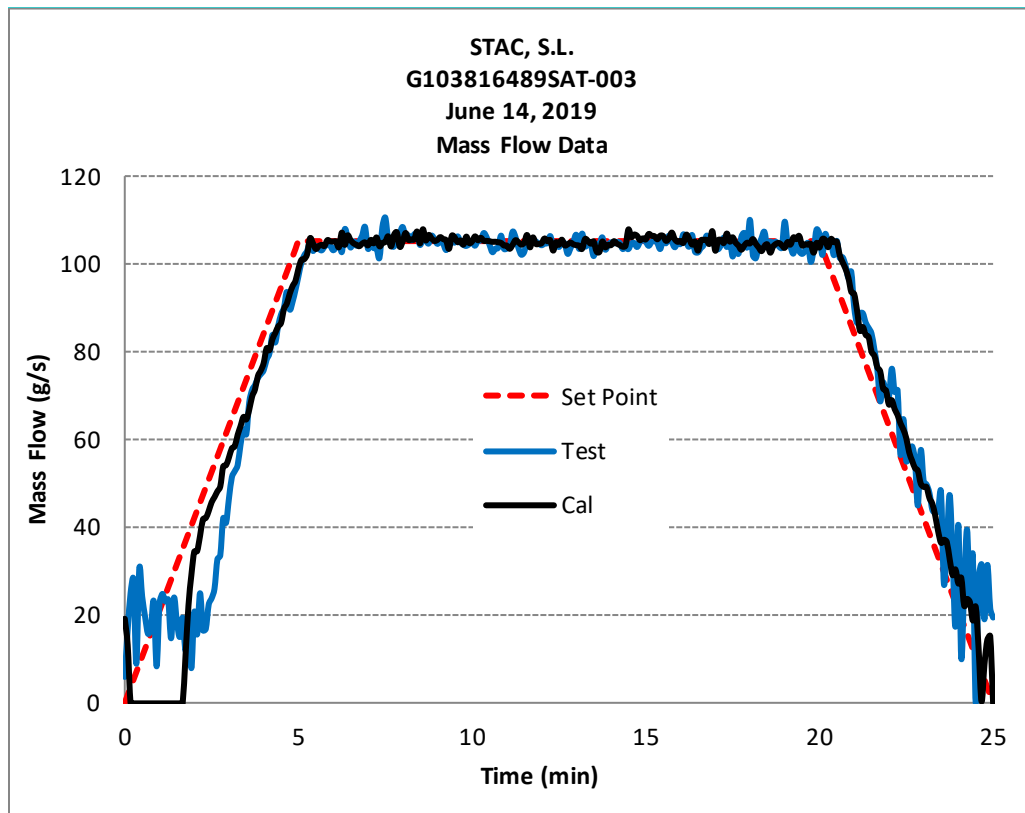
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**SECTION 13**

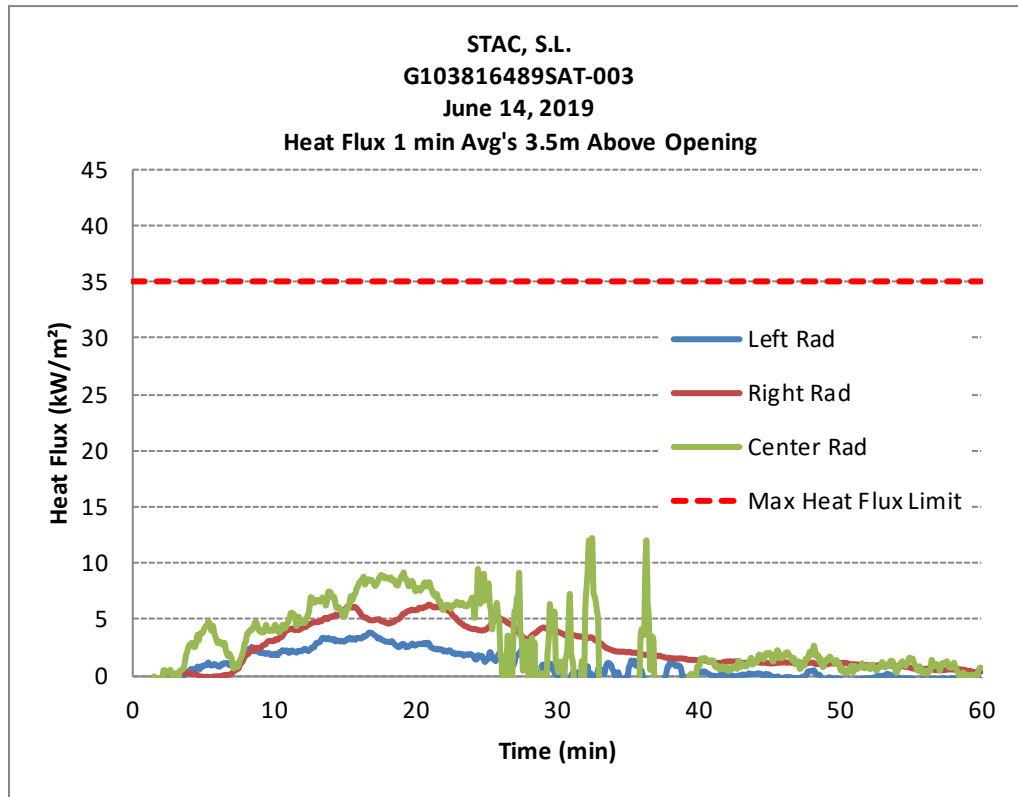
**GRAPHS**



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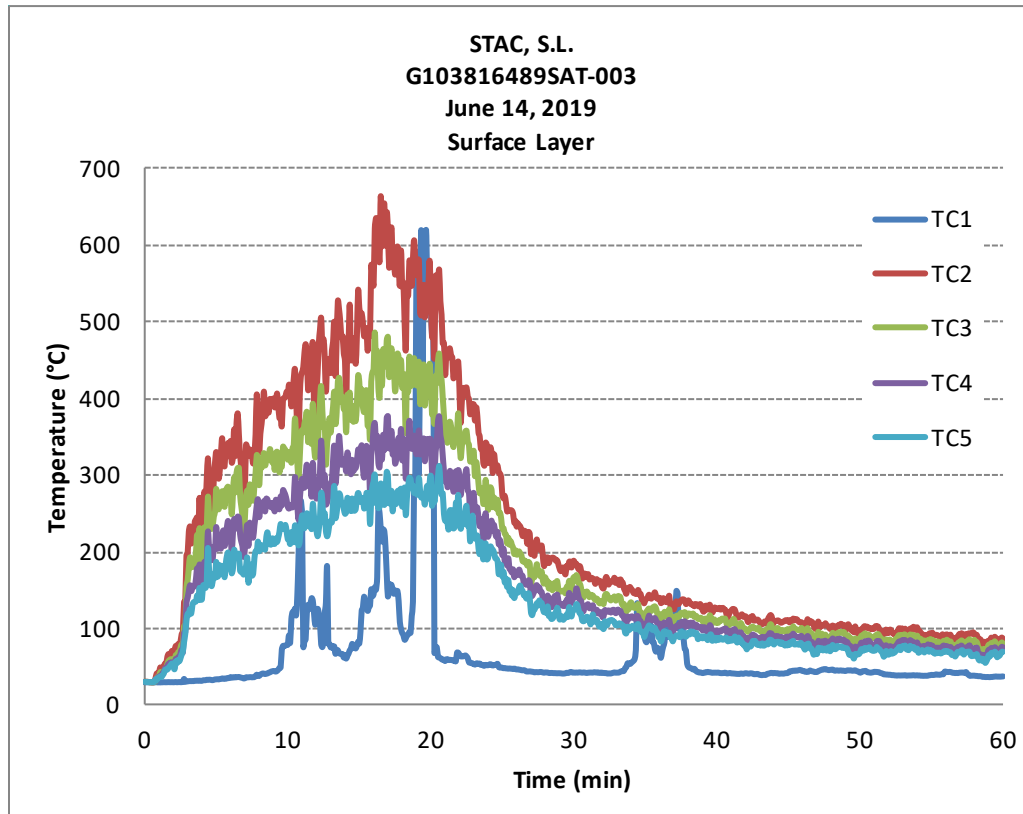
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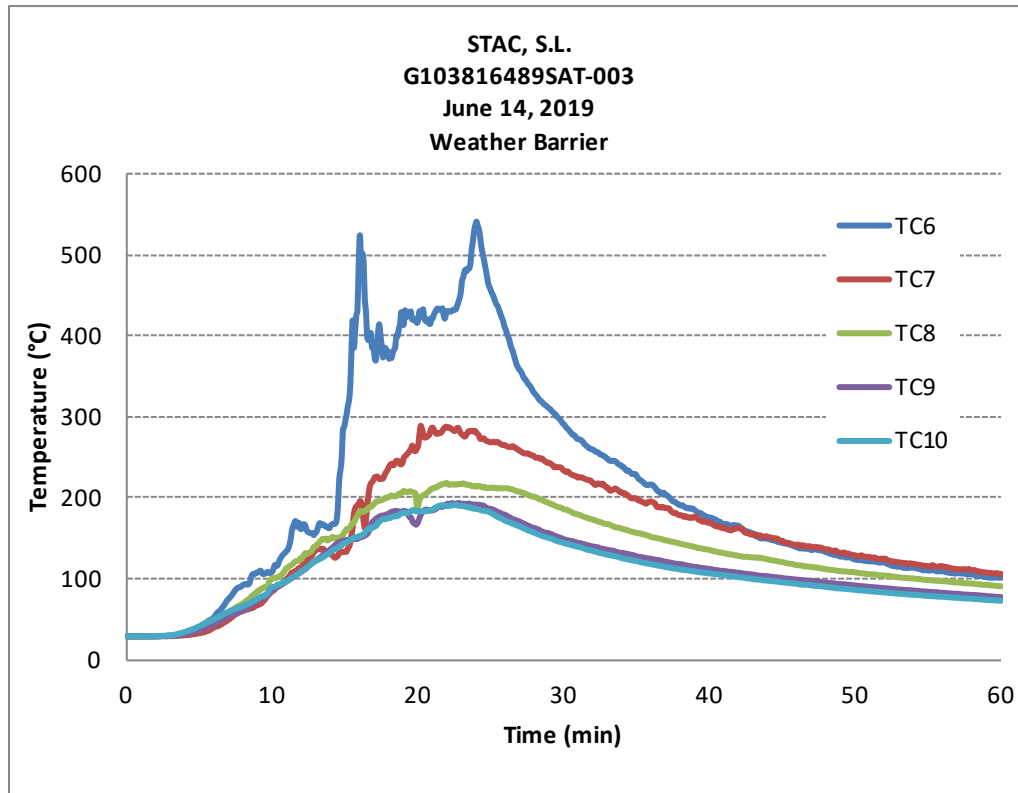
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Facsimile: 210-635-8101  
[www.intertek.com/building](http://www.intertek.com/building)

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### **SECTION 14**

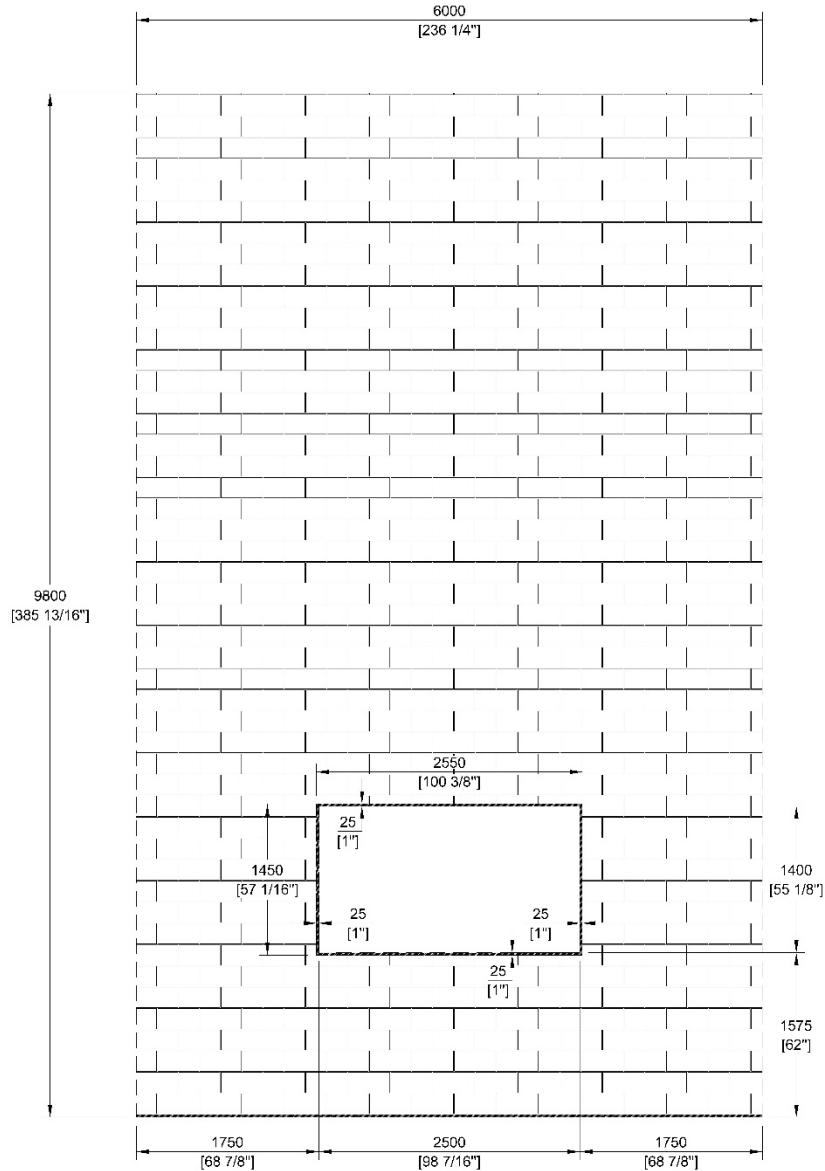
#### **DRAWINGS**

THE "AS-BUILT" DRAWINGS FOR THIS PROJECT 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: 06/17/19



**PANNEAUX 3D**  
755, rue Boucher, Saint-Jean-sur-Richelieu  
(Québec) J3B 8P4  
panneaux3d.com

TITLE: CONCRETE BLOCK WALL LAYOUT

PROJECT MANAGER: JÉRÔME LÉVESQUE

PROJECT: TEST CAN ULC S134, STACBOND

DRAWER: JÉRÔME LÉVESQUE

PROJECT NO: P2019-00388

SCALE: N.A.E.

REVISION: 1

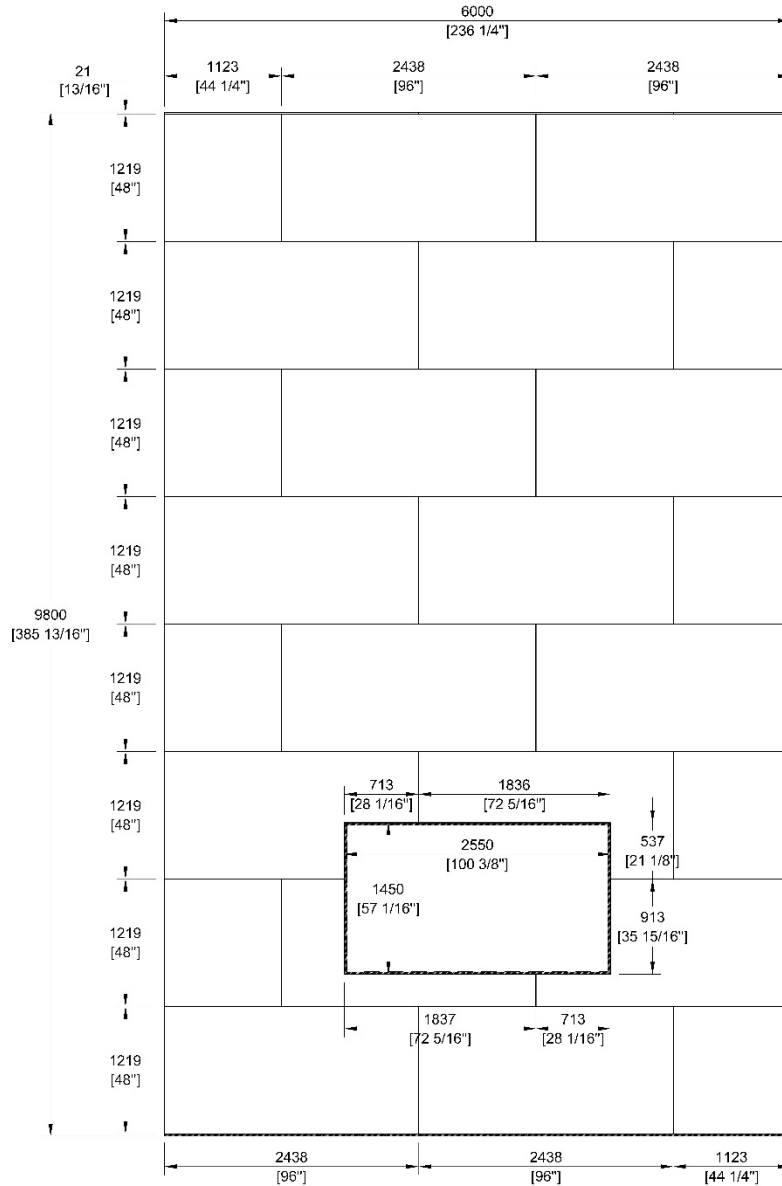
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Date: 06/17/19



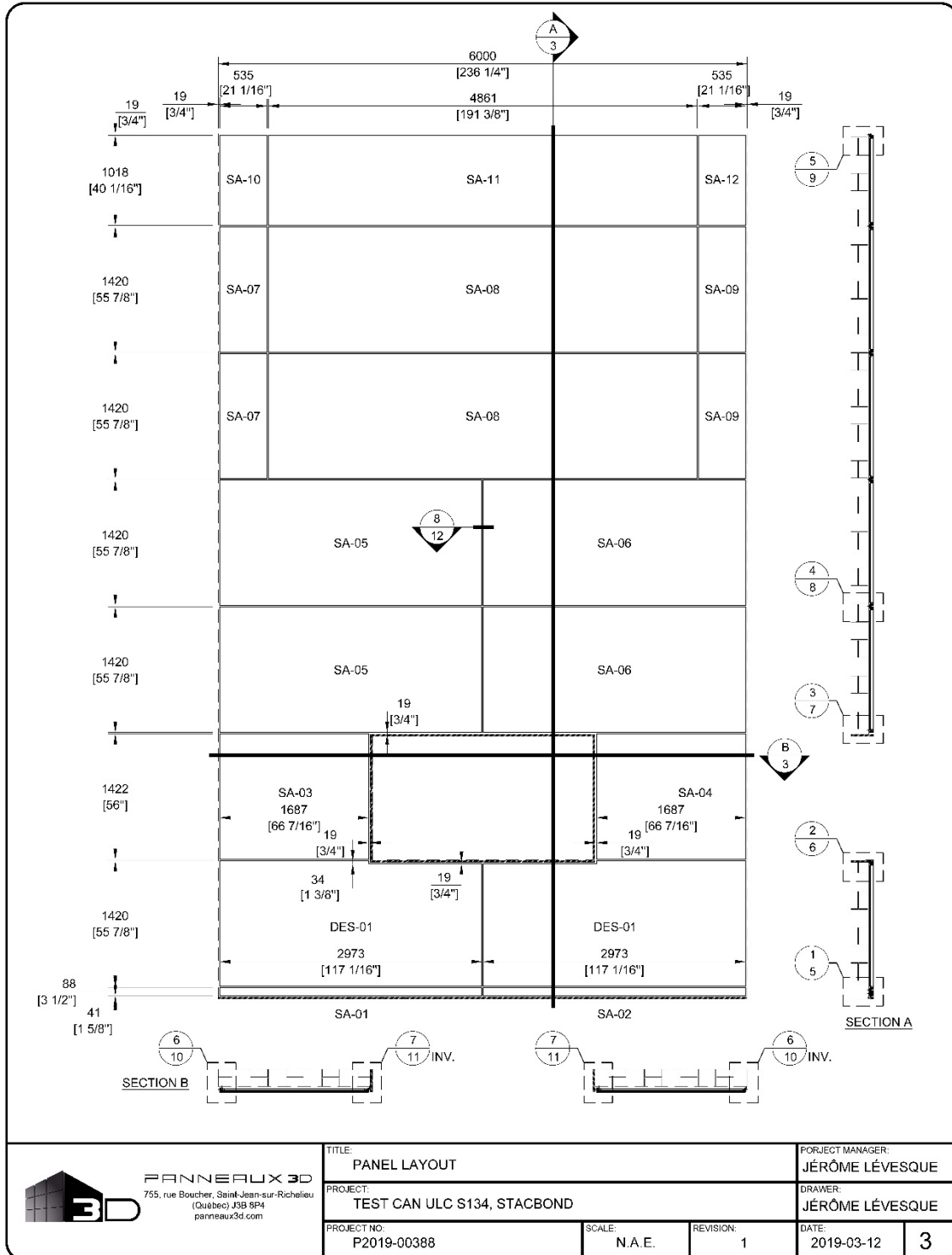
**PANNEAUX 3D**  
755, rue Boucher, Saint-Jean-sur-Richelieu  
(Québec) J3B 8P4  
panneaux3d.com

TITLE: GYPSUM SHEATHING LAYOUT			PROJECT MANAGER: JÉRÔME LÉVESQUE	
PROJECT: TEST CAN ULC S134, STACBOND			DRAWER: JÉRÔME LÉVESQUE	
PROJECT NO: P2019-00388	SCALE: N.A.E.	REVISION: 1	DATE: 2019-03-12	2

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Date: 06/17/19

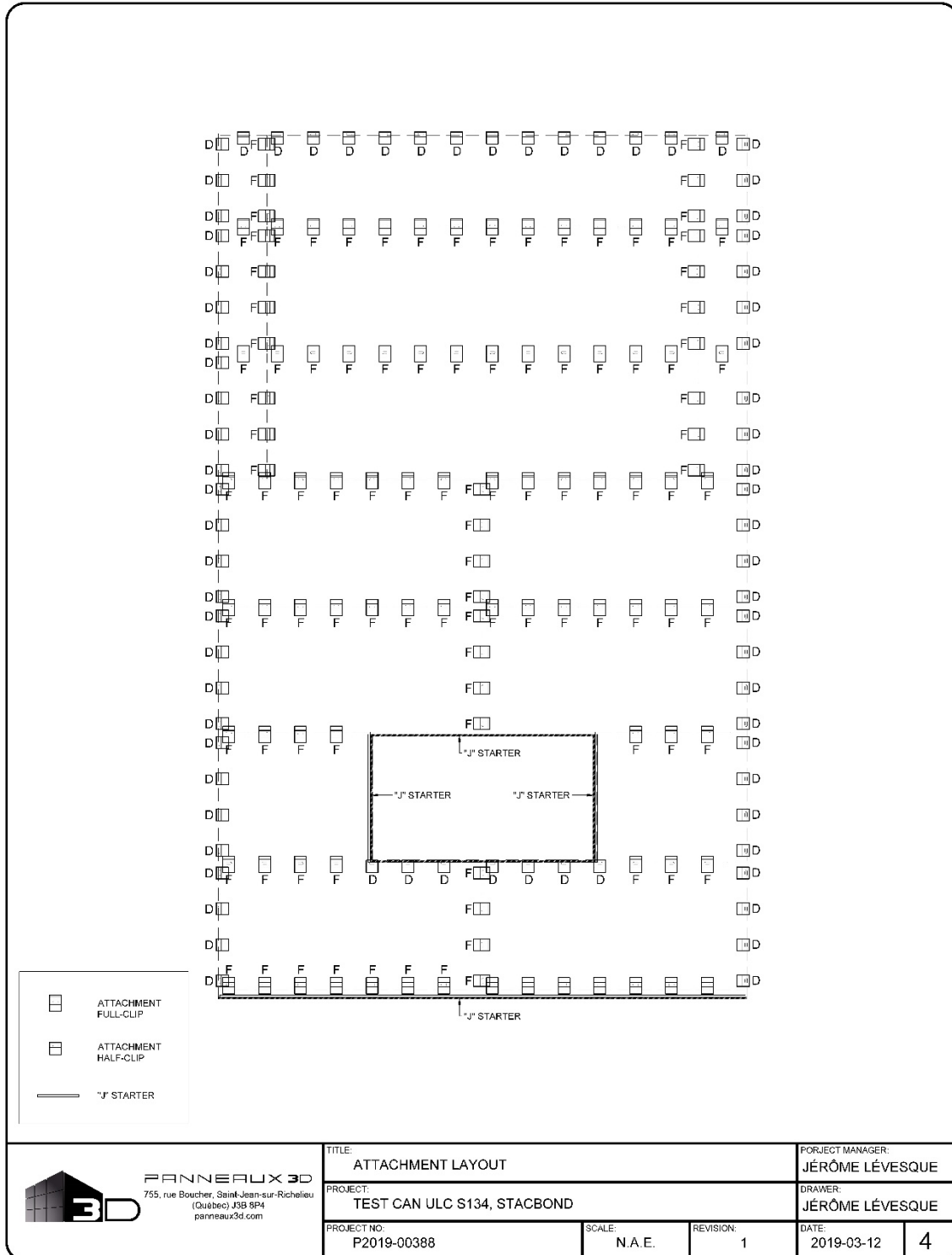




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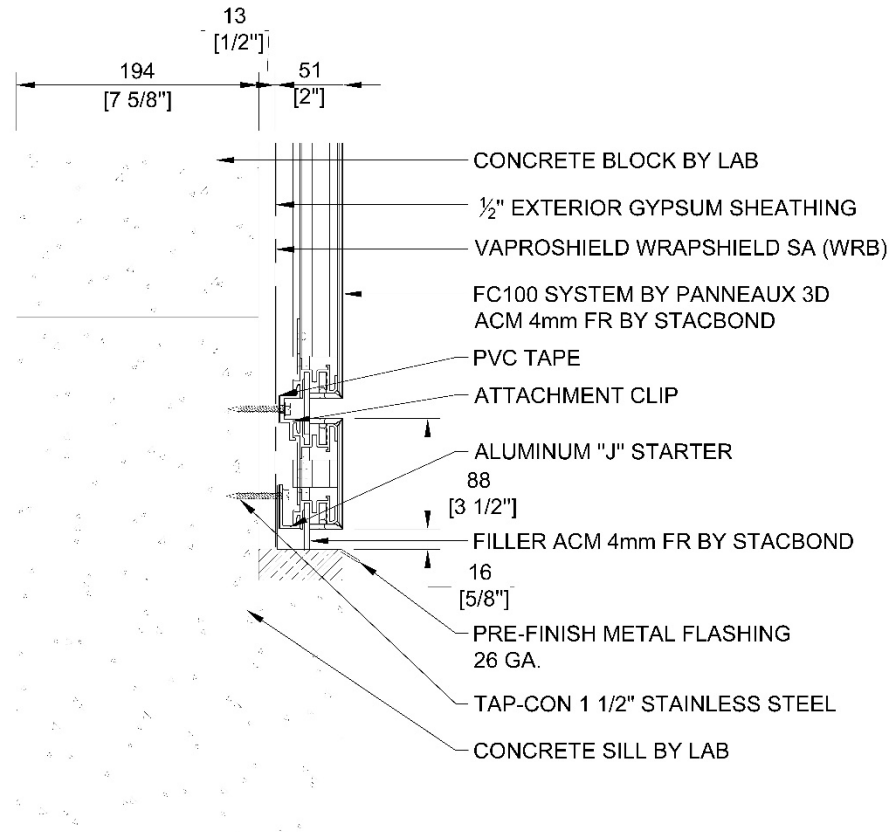
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**PANNEAUX 3D**  
755, rue Boucher, Saint-Jean-sur-Richelieu  
(Québec) J3B 8P4  
panneaux3d.com

TITLE:  
DETAIL AT CONCRETE SILL

PROJECT MANAGER:  
JÉRÔME LÉVESQUE

PROJECT:  
TEST CAN ULC S134, STACBOND

DRAWER:  
JÉRÔME LÉVESQUE

PROJECT NO:  
P2019-00388

SCALE:  
N.A.E.

REVISION:  
1

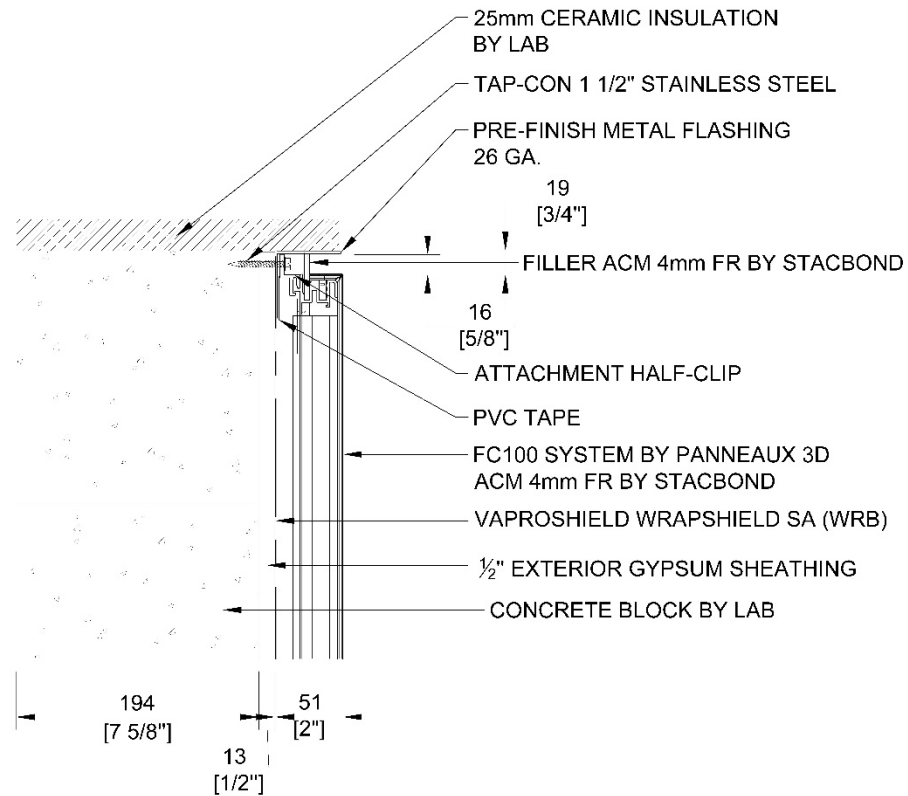
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Date: 06/17/19



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PANNEAUX 3D  
755, rue Boucher, Saint-Jean-sur-Richelieu  
(Québec) J3B 8P4  
panneaux3d.com

TITLE:  
DETAIL AT WINDOW SILL

PROJECT MANAGER:  
JÉRÔME LÉVESQUE

PROJECT:  
TEST CAN ULC S134, STACBOND

DRAWER:  
JÉRÔME LÉVESQUE

PROJECT NO:  
P2019-00388

SCALE:  
N.A.E.

REVISION:  
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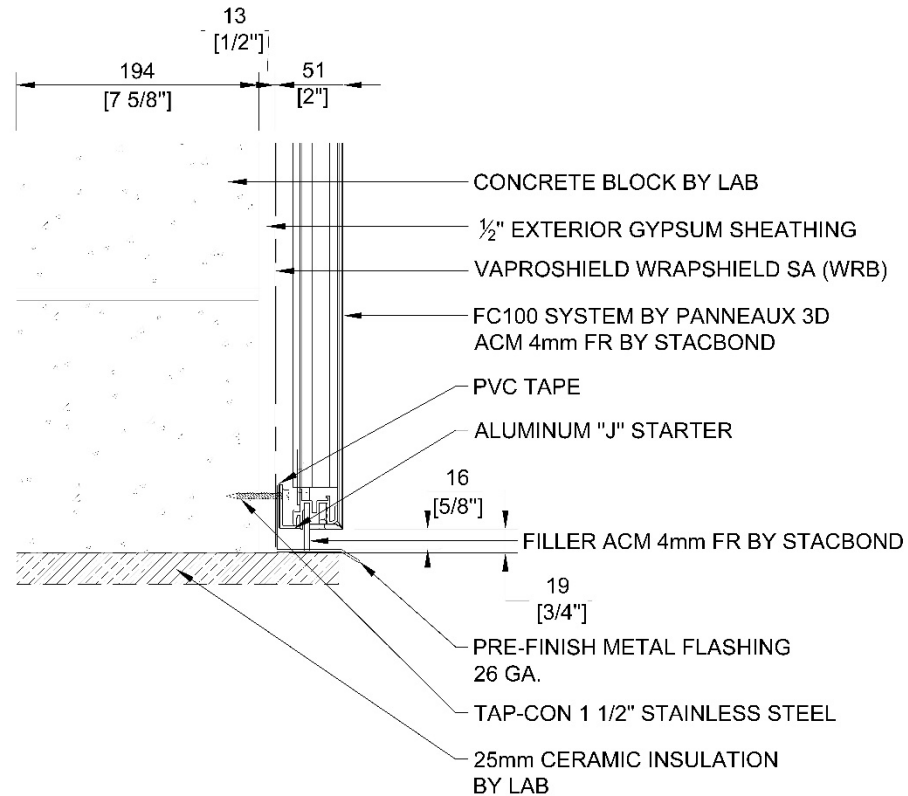
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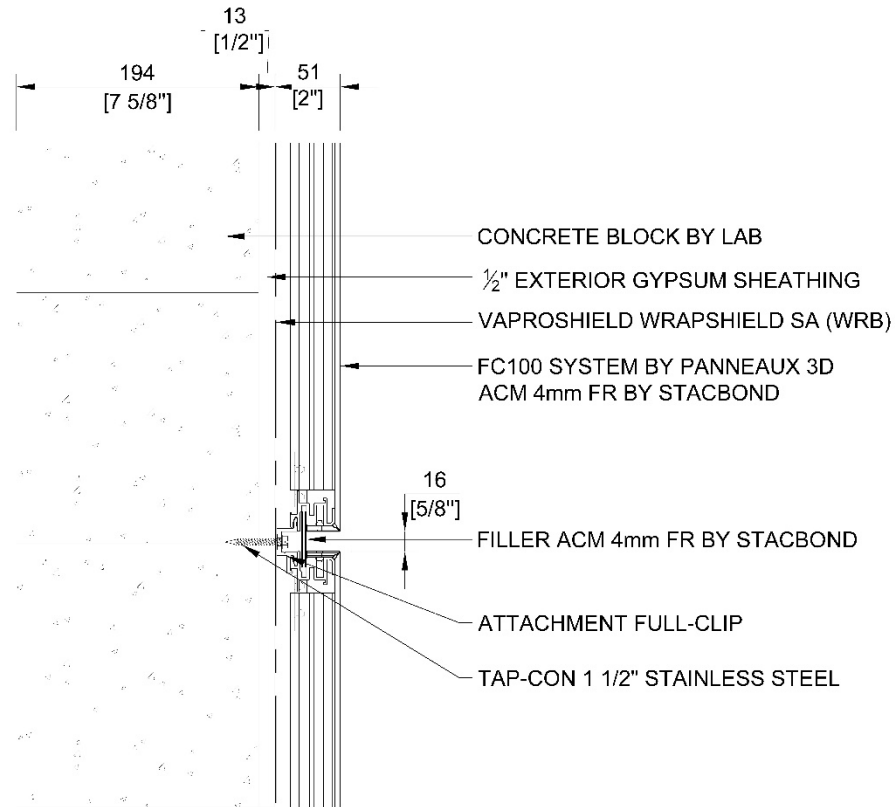
**PANNEAUX 3D**  
755, rue Boucher, Saint-Jean-sur-Richelieu  
(Québec) J3B 8P4  
panneaux3d.com

TITLE: DETAIL AT WINDOW HEAD		PROJECT MANAGER: JÉRÔME LÉVESQUE	
PROJECT: TEST CAN ULC S134, STACBOND		DRAWER: JÉRÔME LÉVESQUE	
PROJECT NO: P2019-00388	SCALE: N.A.E.	REVISION: 1	DATE: 2019-03-12
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Date: 06/17/19



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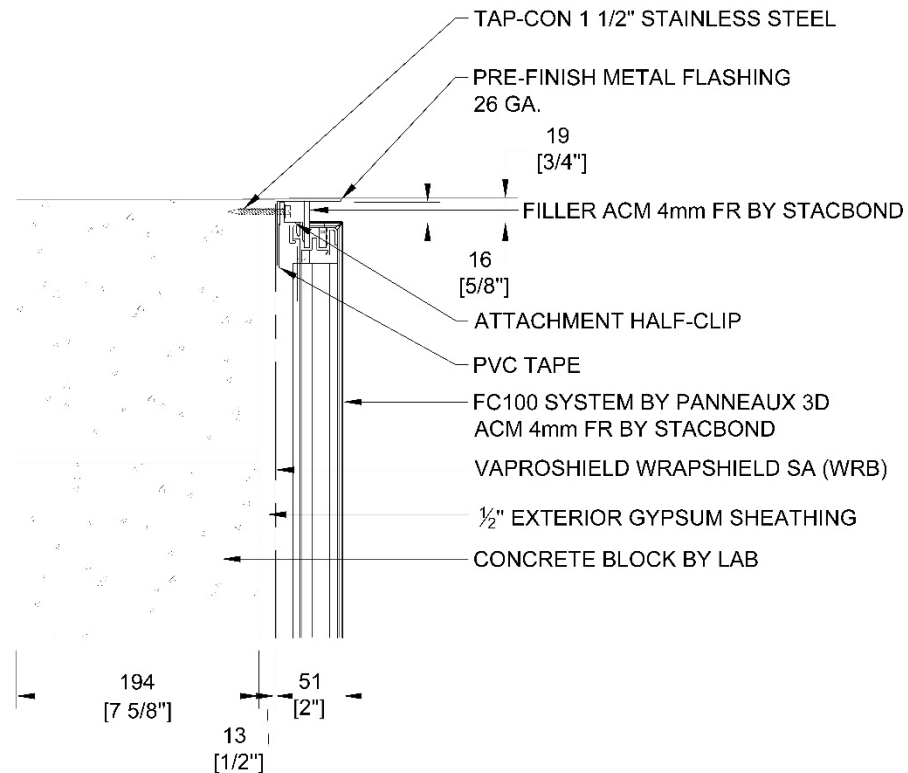
**PANNEAUX 3D**  
755, rue Boucher, Saint-Jean-sur-Richelieu  
(Québec) J3B 8P4  
panneau3d.com

TITLE: DETAIL AT HORIZONTAL JOINT			PROJECT MANAGER: JÉRÔME LÉVESQUE	
PROJECT: TEST CAN ULC S134, STACBOND			DRAWER: JÉRÔME LÉVESQUE	
PROJECT NO: P2019-00388	SCALE: N.A.E.	REVISION: 1	DATE: 2019-03-12	8

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**PANNEAUX 3D**  
755, rue Boucher, Saint-Jean-sur-Richelieu  
(Québec) J3B 8P4  
panneaux3d.com

TITLE:  
DETAIL AT PARAPET

PROJECT MANAGER:  
JÉRÔME LÉVESQUE

PROJECT:  
TEST CAN ULC S134, STACBOND

DRAWER:  
JÉRÔME LÉVESQUE

PROJECT NO:  
P2019-00388

SCALE:  
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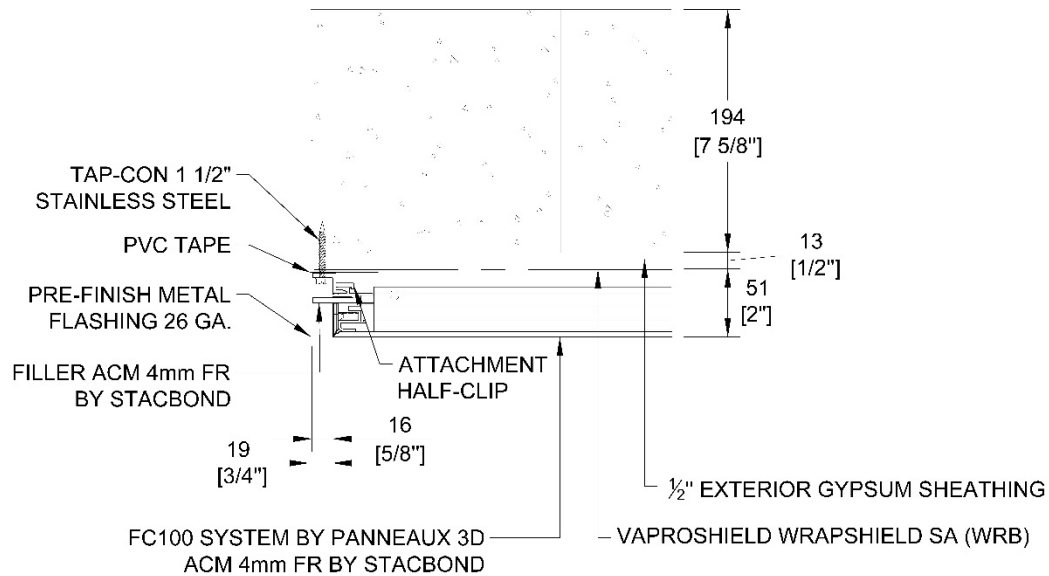
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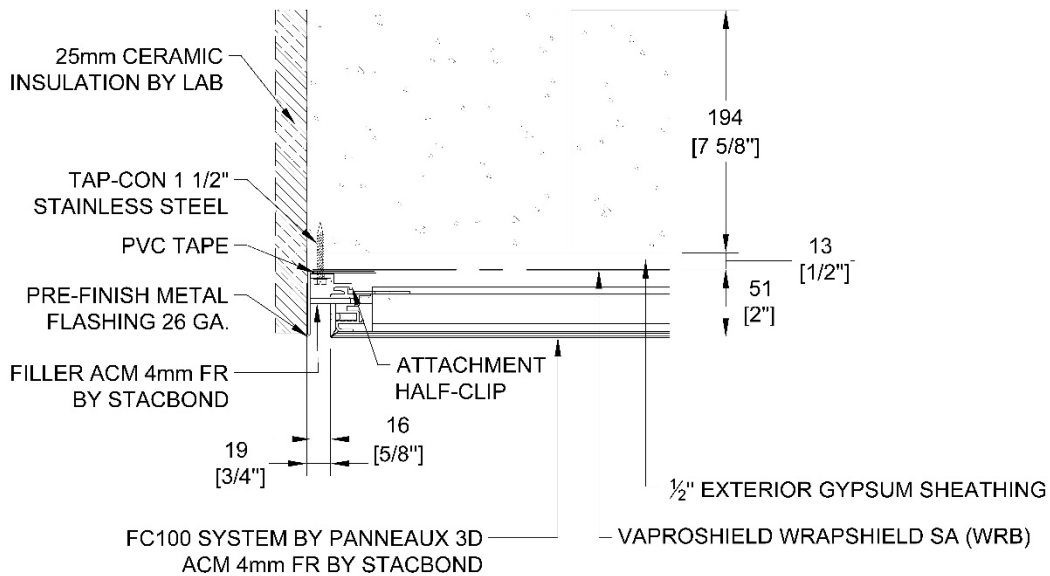
**PANNEAUX 3D**  
755, rue Boucher, Saint-Jean-sur-Richelieu  
(Québec) J3B 8P4  
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TITLE: DETAIL AT EDGE OF SYSTEM		PROJECT MANAGER: JÉRÔME LÉVESQUE	
PROJECT: TEST CAN ULC S134, STACBOND		DRAWER: JÉRÔME LÉVESQUE	
PROJECT NO: P2019-00388	SCALE: N.A.E.	REVISION: 1	DATE: 2019-03-12
			10

**TEST REPORT FOR STAC, S.L.**

Report No.: 103816489SAT-003

Date: 06/17/19



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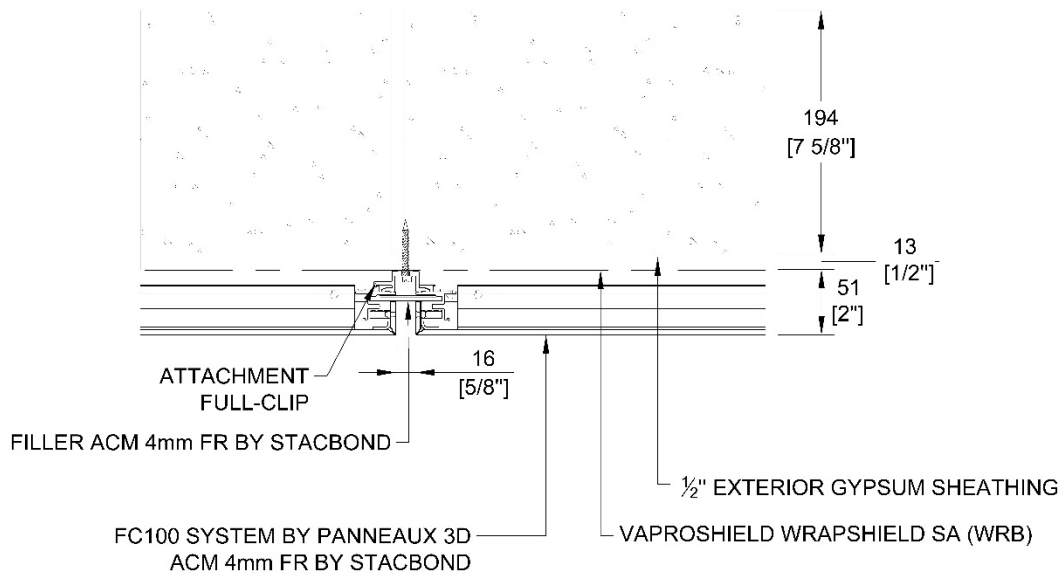
TITLE: DETAIL AT WINDOW JAMB		PROJECT MANAGER: JÉRÔME LÉVESQUE	
PROJECT: TEST CAN ULC S134, STACBOND		DRAWER: JÉRÔME LÉVESQUE	
PROJECT NO: P2019-00388	SCALE: N.A.E.	REVISION: 1	DATE: 2019-03-12
			11



**TEST REPORT FOR STAC, S.L.**

Report No.: 103816489SAT-003

Date: 06/17/19



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TITLE: DETAIL AT VERTICAL JOINT			PROJECT MANAGER: JÉRÔME LÉVESQUE	
PROJECT: TEST CAN ULC S134, STACBOND			DRAWER: JÉRÔME LÉVESQUE	
PROJECT NO: P2019-00388	SCALE: N.A.E.	REVISION: 1	DATE: 2019-03-12	12

## TEST REPORT FOR STAC, S.L.

Report No.: 103816489SAT-003

Date: 06/17/19



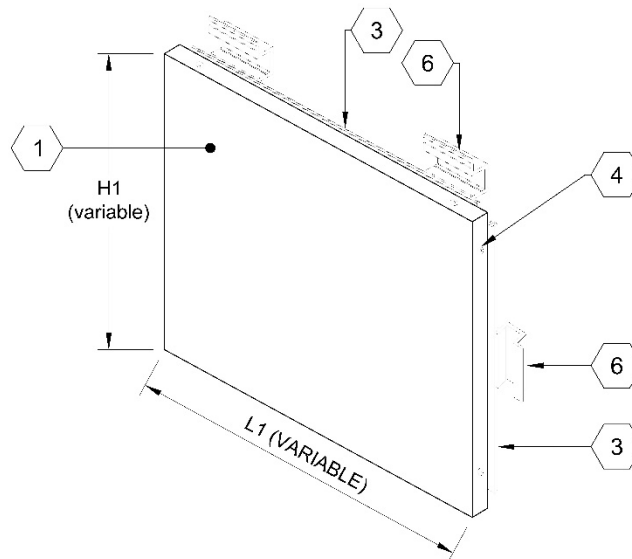
### PANNEAUX 3D

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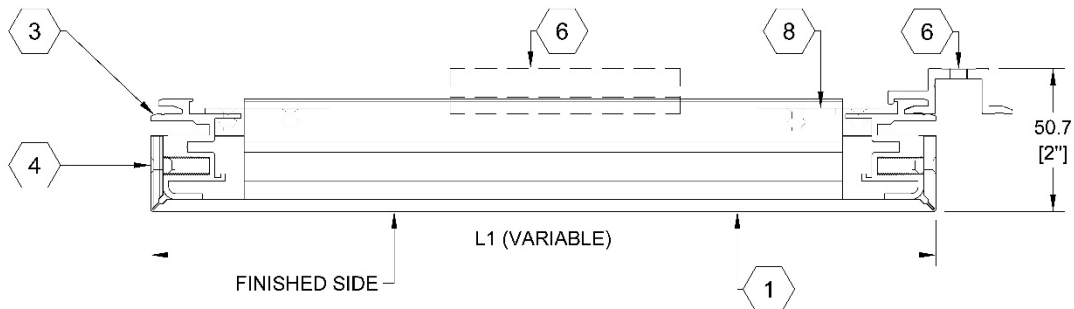
### FUTURA FC-100

ACM/MCM 4MM FR STACBONC

#### ISOMETRIC VIEW (TYPE "SA")



#### COUPE A (CROSS SECTION)



#### LIST OF MATERIALS

- |   |  |   |
|---|--|---|
| 1 ACM/MCM $\frac{1}{8}$ " OR $\frac{5}{32}$ "<br>COLOR TBD.           | 6 MOVABLE ALUMINUM CLIPS<br>(FULL-CLIP OR HALF-CLIP).                    | 11 STAINLESS FASTENERS FOR WOOD<br>(SUPPLIED BY INSTALLER).                           |
| 2 FILLER<br>ACM/MCM $\frac{1}{8}$ " OR $\frac{5}{32}$ "<br>COLOR TBD. | 7 "J" STARTER (ALUMINUM).  | 12 FURRINGS<br>RECOMMENDED MINIMUM 19ga<br>(SUPPLIED BY INSTALLER).                   |
| 3 ALUMINUM EXTRUSION.   | 8 ALUMINUM STIFFENER   | 13 BREAK METAL FLASHINGS<br>RECOMMENDED ALUMINUM OR STEEL<br>(SUPPLIED BY INSTALLER). |
| 4 ALUMINUM RIOVETS<br>COLOR TBD ACCORDING TO.                         | 9 PVC TAPE (SUPPLIED BY INSTALLER).                                      | 14 VAPOR/WATER BARRIER<br>(SUPPLIED BY INSTALLER).                                    |
| 5 WEEP HOLE ( $\frac{1}{4}$ ")<br>WITH SCREEN MESH.                   | 10 STAINLESS FASTENERS RECOMMENDED<br>METAL FURRINGS<br>TEK3 #12 X 3/4". | 15 PLYWOOD MINIMUM $\frac{5}{8}$ "<br>(SUPPLIED BY INSTALLER).                        |

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### SECTION 15

#### REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	06/17/19	N/A	Original Report Issue