

ABET, INC.

TEST REPORT

SCOPE OF WORK

ASTM E330 TESTING ON MEGBOARD HPL OVER INSULATION

REPORT NUMBER

J9994.02-801-44-R1

TEST DATE

07/26/19

ISSUE DATE

09/16/19

REVISED DATE

10/18/19

RECORD RETENTION END DATE

07/26/23

PAGES

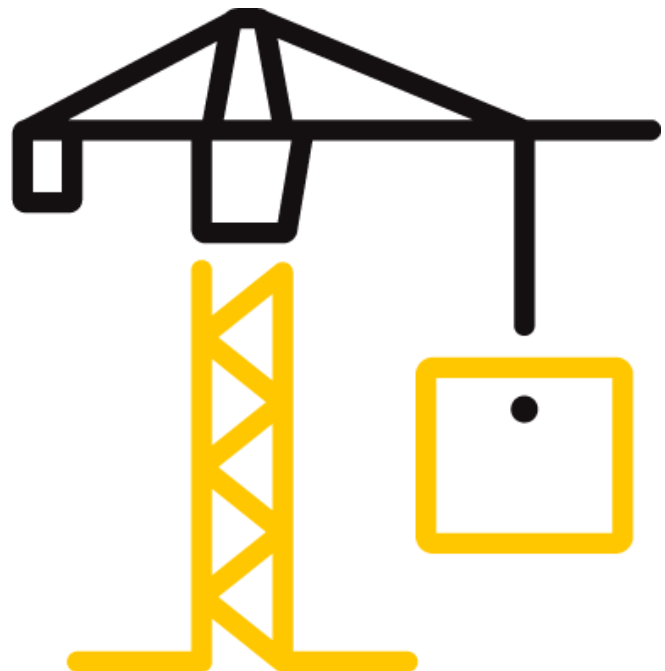
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DOCUMENT CONTROL NUMBER

ATI 00521 (07/24/17)

RT-R-AMER-Test-2812

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TEST REPORT FOR ABET, INC.

Report No.: J9994.02-801-44-r1

Date: 09/16/19

REPORT ISSUED TO

ABET, INC., LLC

405 N Nettleton Avenue

Springfield, MO 65802

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by ABET, Inc., LLC to perform testing in accordance with ASTM E330 on their MEGboard HPL installed over insulation. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek test facility in Plano, Texas. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. This report is not intended as a comprehensive evaluation of the system regarding performance and application to specific buildings.

SECTION 2

SUMMARY OF TEST RESULTS

Product Type: Wall Cladding System installed over insulation

Series/Model: MEGboard HPL

TITLE	RESULTS	PASS/FAIL
ASTM E330	60 psf	PASS

For INTERTEK B&C:

COMPLETED BY:	Andy Cost	REVIEWED BY:	Jeff Crump
TITLE:	Laboratory Manager	TITLE:	Project Manager
SIGNATURE:		SIGNATURE:	
DATE:	10/18/19	DATE:	10/18/19

AC /cm

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SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

ASTM E330/E330M-14, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. 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.

Installation of the tested product was performed by the client. A continuous bottom attachment system extrusion was secured directly to the stud using #14x4 self tapping. Screws were located two at each end and two located 16" on center thereafter. Continuous intermediate attachment system extrusions were located horizontally and vertically 16" on center and attached into the studs with #14x4 self tapping screws with one located at each end and 16" on center. The panels were secured to the attachment system extrusions at the top and bottom with a clip. Clips were 2" wide and located at each end and 16" on center thereafter. Each clip was secured to the attachment system with one #6x3/4" Phillips pan head screw.

SECTION 5

EQUIPMENT

Computerized control panel to run pressures and measure deflections.

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Lee Loveall	ABET, Inc., LLC
Andy Cost	Intertek B&C

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SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: Wall Cladding System installed over insulation

Series/Model: MEGboard HPL

Product Sizes:

OVERALL AREA:	WIDTH		HEIGHT	
	millimeters	inches	millimeters	inches
6 m ² (64 ft ²)				
Overall Size	2440	96	2440	96
Top Panel Size (x4)	1216	47-7/8	598	23-9/16
Bottom Panel Size (x2)	2440	96	598	23-9/16
Panel Depth	10	0.40		
Attachment system Depth	32	1-1/4		
Foam depth	76	3		
Total System Depth	118	4.65		

Panel Construction:

Test Wall Construction: The 96" wide by 96" high test wall was constructed of 6" 16 gauge steel studs. The steel studs were spaced 16" on center inside a 2x10 wood buck. The panel system was then installed onto the open studs in a manner consistent with normal construction procedures for the system

Reinforcement: None

Weep Holes: None

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**SECTION 8
TEST RESULTS**

The temperature during testing was 23°C (75°F). The results are tabulated as follows:

PRESSURE	RESULTS	ALLOWED	NOTE
Uniform Load Deflection, per ASTM E330 Deflections taken at top, center, and bottom at a stud location +2873 Pa (+60.00 psf) -2873 Pa (-60.00 psf)	 1.0 mm (0.04") 2.5 mm (0.10")	 N/A. N/A	 1, 2
Uniform Load Structural, per ASTM E330 Permanent set taken at top, center, and bottom at a stud location +4309 Pa (+90.00 psf) -4309 Pa (-90.00 psf)	 1.0 mm (0.04") <0.1 mm (<0.01")	 N/A N/A	 1, 2

Note 1: Loads were held for 10 seconds.

Note 2: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

**SECTION 9
CONCLUSION**

The specimen met the specified performance requirements.

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SECTION 10 PHOTOGRAPHS



Photo No. 1
Specimen Configuration

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Photo No. 2
Specimen Configuration



Total Quality. Assured.

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Plano, Texas 75074

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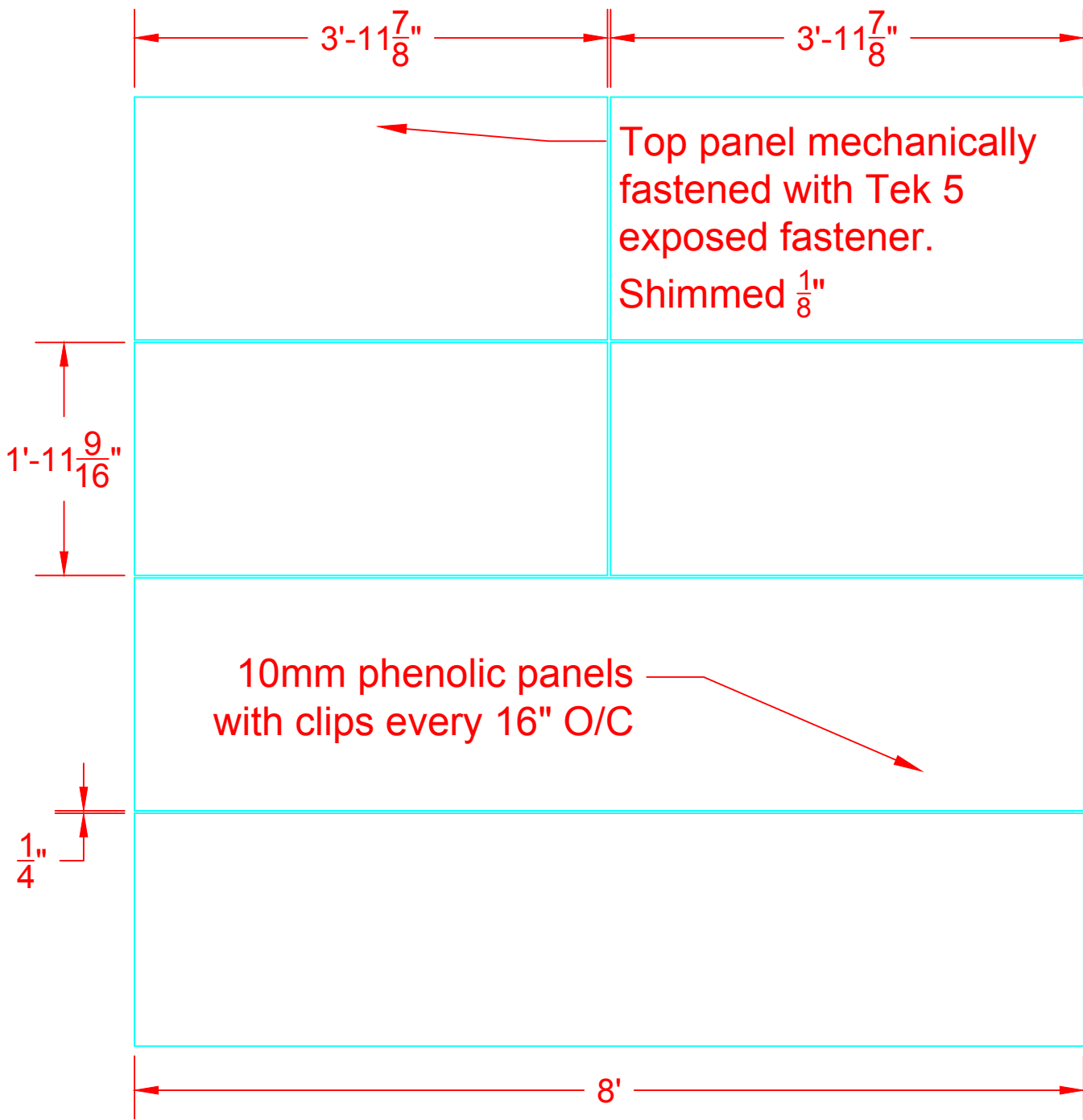
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SECTION 11
DRAWINGS


The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

Note: *Complete drawings packet on file with Intertek B&C.*

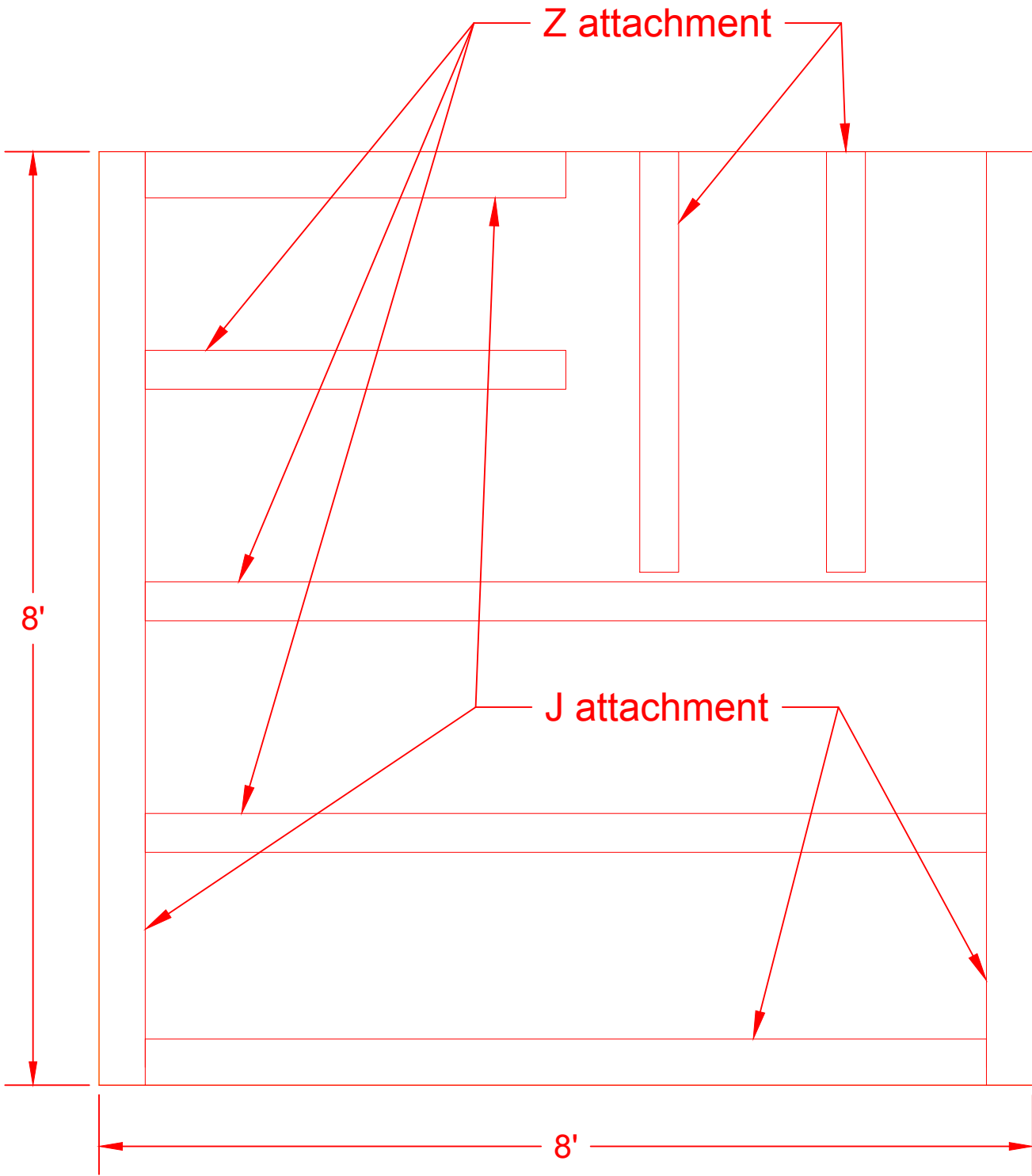


Meg panel layout

Drawn By:	LJL
Date:	5-29-19


notes	
	
Report #:	J9994.02-801-44
Date:	10/18/19
Verified by:	A.Cost

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Sheet	001

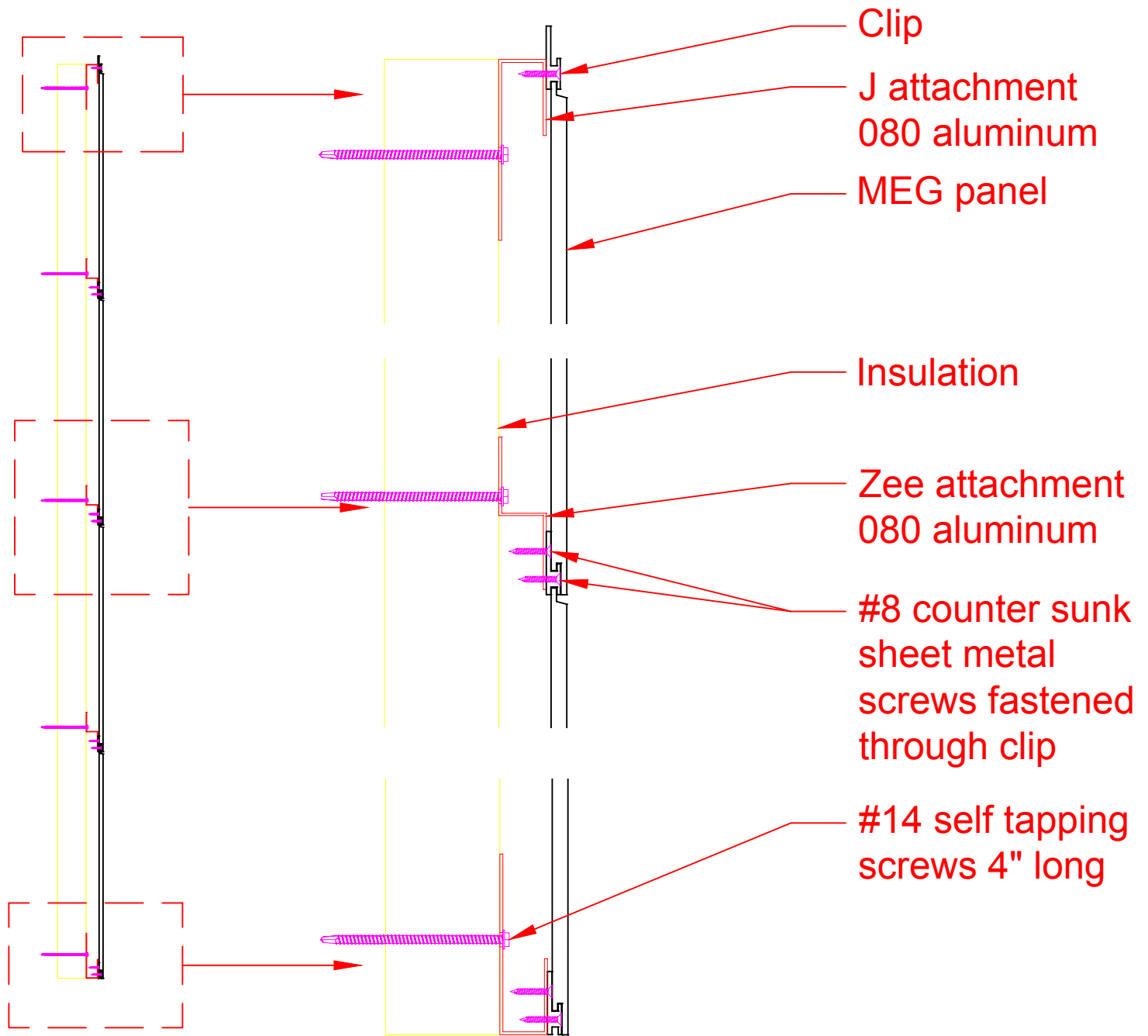


Attachment layout

Drawn By:	LJL
Date:	5-29-19

notes		
	Report #:	J9994.02-801-44
	Date:	10/18/19
	Verified by:	A.Cost

Sheet Title	DET
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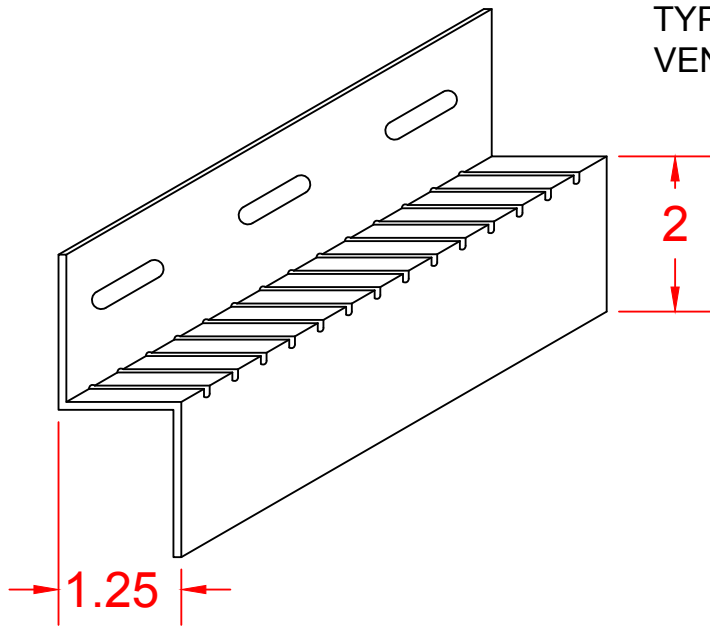


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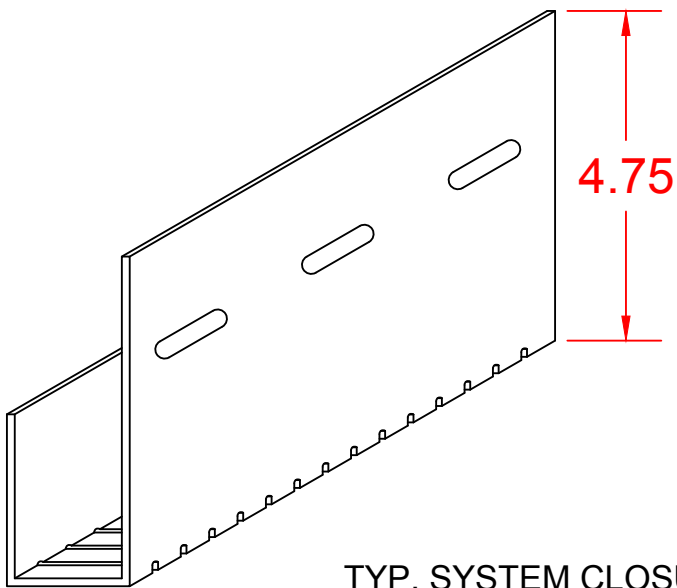
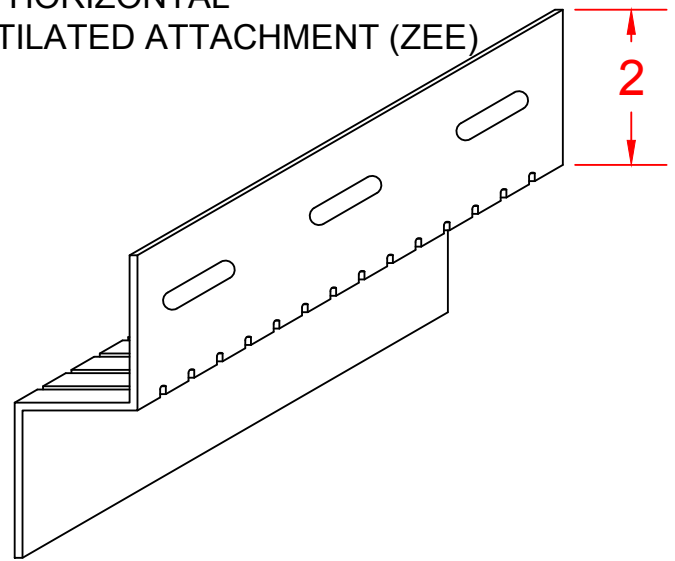
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Date: 5-29-19

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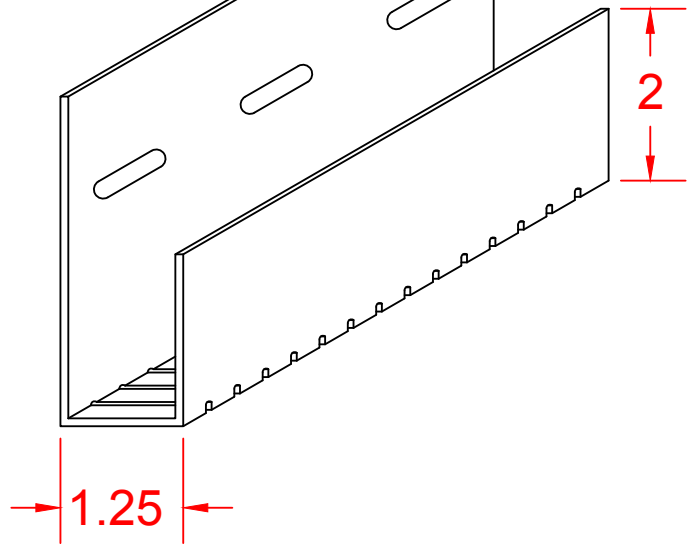
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TYP. HORIZONTAL
VENTILATED ATTACHMENT (ZEE)



TYP. SYSTEM CLOSURE
(J)



Attachment system

Drawn By:	LJL
Date:	5-29-19

notes		
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	Date:	10/18/19
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Sheet Title	DET
Scale	6" - 1'
Sheet	004



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SECTION 12

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	09/16/19	N/A	Original Report Issue
1	10/18/19	1,2	Updated product name