

Manufacturer: Altech Panel Systems, LLC
1 Johnson Street, Suite 118
Cartersville, GA 30120

Product Line: Accu-Trac Systems by Altech Panel Systems/Alpolic/Alpolic Fr

Compliance:

The above mentioned product has been evaluated for compliance with the requirements of the Florida Department of Community Affairs for Statewide Acceptance per Rule 61G20-3.005 method 1(d). The product listed herein complies with requirements of the Florida Building Code.

Supporting Technical Documentation:

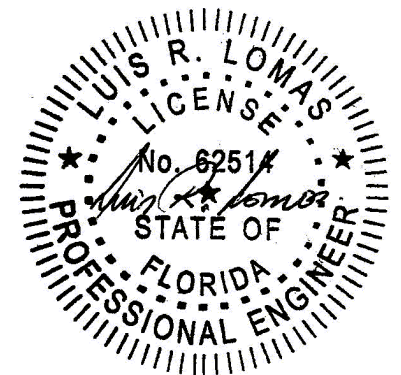
1. Approval document: drawing number 08-02268, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Report No.: NCTL 210-3064-1 signed and sealed by Gerald Ferrara P.E.
National Certified Testing Laboratories, Orlando, FL
TAS 201-94 Large Missile Impact Test, Level D, Wind Zone 4
TAS 202 -94 Uniform Static Air Pressure, ±50.0psf design pressure, 15.0psf water penetration.
TAS 203-94 Cyclic Pressure loading ±50.0psf design pressure
3. Polyethylene and Thermoplastic core testing:
Report No.: 01-8361-038 signed by Alex B. Wenzel.
Southwest Research Institute, San Antonio TX
Report No.: 01-8361-320 signed by Alex B. Wenzel
Southwest Research Institute, San Antonio TX
Report No.: 01-43055.02 signed and sealed by Joseph A. Reed P.E.
Architectural Testing Laboratories, York, PA.

Results for Polyethylene Core.

Description	Tests	Results
Tensile Strength	ASTM E8	7452 PSI
Punching Shear Resistance (1" dia)	ASTM D732	4637 PSI
Punching Shear Max Load	ASTM D732	1920 PSI
Bond Integrity Vertical Pull	ASTM C297	1806 PSI
Drum Peel	ASTM D1781	33.6 IN – LB/IN
Flatwise Shear	ASTM C273	1225 PSI
Rate of Burning	ASTM D635	CCI
Flame Spread Index	ASTM E84	00
Smoke Developed Index	ASTM E84	00
Self Ignition Temperature	ASTM D1929	752°F
Flash Ignition Temperature	ASTM D1929	716°F

Results for Thermoplastic Fire Retardant Core.

Description	Tests	Results
Tensile Strength	ASTM E 8	5693PSI
Punching Shear Resistance (1" dia)	ASTM D732	4637 PSI
Punching Shear Max Load	ASTM D732	2259 PSI
Bond Integrity Vertical Pull	ASTM C297	427 PSI
Drum Peel	ASTM D1781	27.6 IN-LB/IN
Flatwise Shear	ASTM C273	949 PSI
Rate of Burning	ASTM D635	--
Flame Spread Index	ASTM E84	00
Smoke Developed Index	ASTM E84	10
Self Ignition Temperature	ASTM D1929	837°F
Flash Ignition Temperature	ASTM D1929	811°F



L. Roberto Lomas P.E.

233 W. Main St.

Danville, VA 24541

434-688-0609

rlomas@lrlomaspe.com

Engineering Evaluation Report

Report No.: 513012

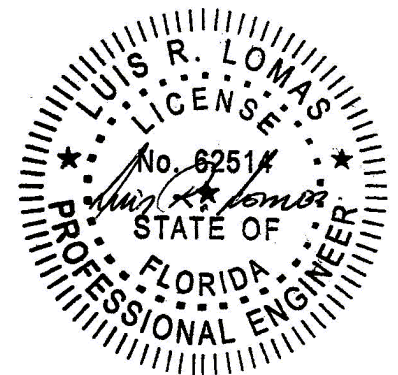
4. Anchor calculations and comparative analysis, report number 513012-1 and -2, prepared, signed and sealed by Luis Roberto Lomas P.E.

Limitations and Conditions of use:

- Maximum design pressure: Refer to installation instructions
- Maximum Panel size: 60"x120"
- This product is rated to be used in the HVHZ.
- Qualified panel thickness: 4mm(tested) and 6mm (qualified by comparative analysis)
- Panel material to be composite with 3105-H14 aluminum faces .020" minimum thickness.
- Core material to be Polyethylene or Thermoplastic (see above test results).
- Panels maybe obtained under the following brand names and manufacturers:
 - Alpolic by Mitsubishi
 - Reynobond by Alcoa
 - Alucobond by 3M
 - Larson by Alucoil

Installation: Units must be installed in accordance with approval document, 08-02268.

Certification of Independence: Please note that I don't have nor will acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Also, I don't have nor will acquire a financial interest in any other entity involved in the approval process of the listed product(s).



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

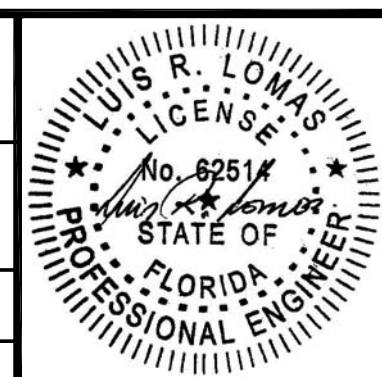
NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. METAL FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. SHEATHING TO BE 1/2" THICK MINIMUM AND SECURED TO FRAMING TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. PANEL THICKNESS TO BE 4MM OR 6MM.
5. PANEL MATERIAL TO BE COMPOSITE WITH A 3105-H14 ALUMINUM FACE .020" MINIMUM THICKNESS WITH POLYETHYLENE OR THERMOPLASTIC FIRE RETARDANT CORE.
6. MAXIMUM PANEL SIZE: 60" X 120"
7. PANELS MAY BE OBTAINED FROM THE FOLLOWING MANUFACTURERS AND UNDER THESE BRAND NAMES:
 ALPOLIC BY MITSUBISHI
 REYNOBOND BY ALCOA
 ALUCOBOND BY 3M
 LARSON BY ALUCOIL
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS.
9. FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS 3" MAX FROM EACH END AND 16" MAX O.C. THEREAFTER AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING PANELS INTO EXTRUSIONS USE 1/8" 5052 ALUMINUM POP RIVETS. LOCATE RIVETS 3" MAX FROM EACH END AND 16" MAX O.C. THEREAFTER AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. ALL FASTENERS TO BE CORROSION RESISTANT.
12. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 A. METAL STRUCTURE: GALVANIZED STEEL 16GA FY: 50KSI MIN.

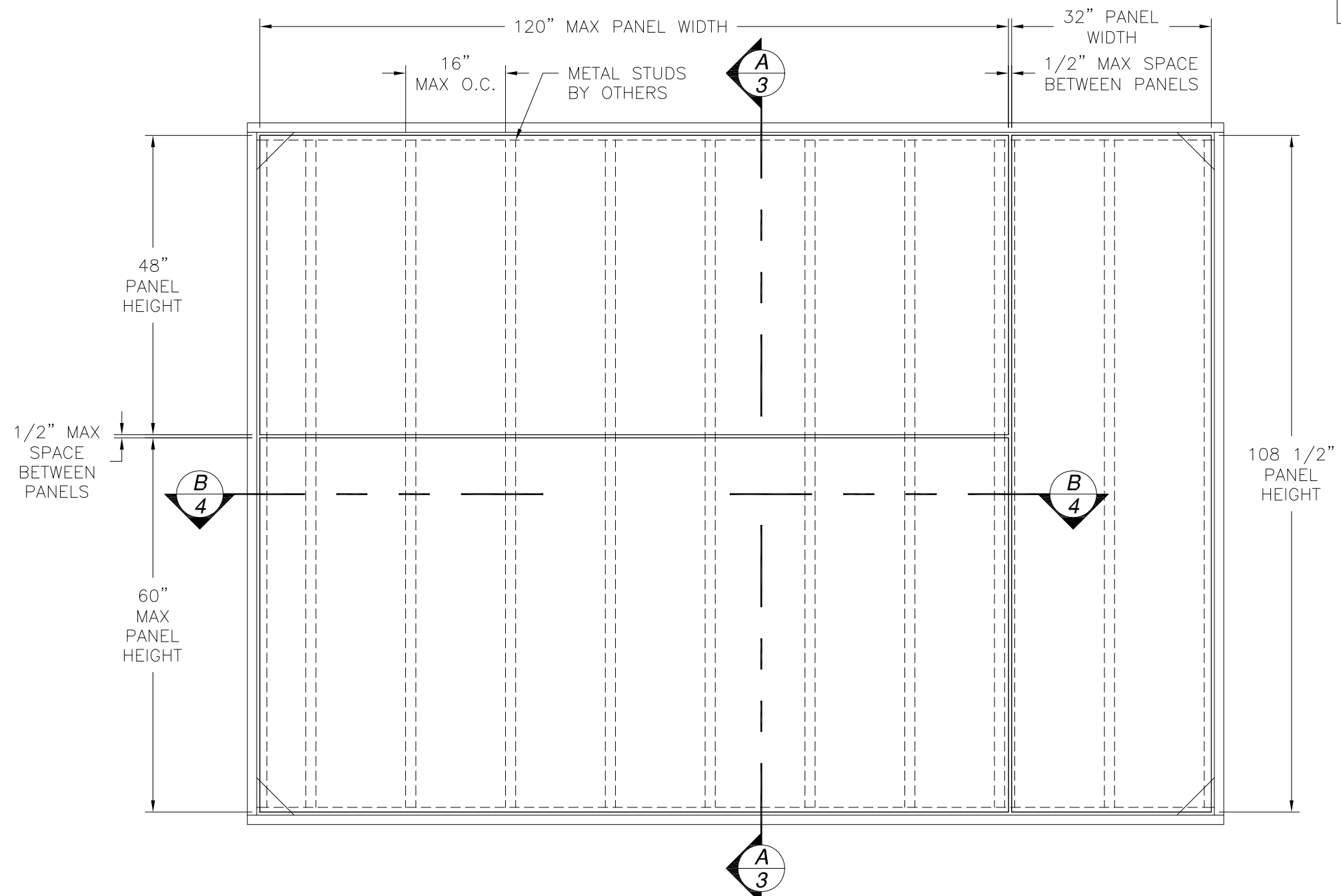
SIGNED: 12/30/2013

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 - 3	ELEVATION, CHART
3 - 5	INSTALLATION DETAILS AND COMPONENTS

ALTECH PANEL SYSTEMS LLC 1 JOHNSON STREET, SUITE 118 CARTERSVILLE, GA 30120		
ACCU-TRAC SYSTEM BY ALTECH/ALPOLIC/ALPOLIC FR NOTES		
DRAWN: J.L.	DWG NO. 08-02268	REV -
SCALE NTS	DATE 12/30/13	SHEET 1 OF 5



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

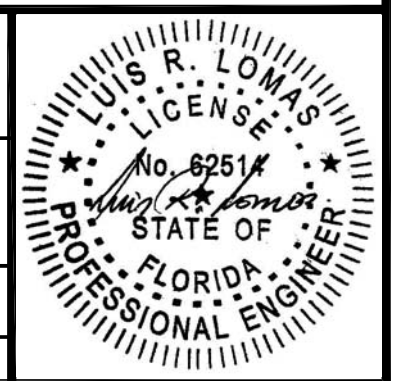


ACCU-TRAC SYSTEM BY ALTECH/ALPOLIC/ALPOLIC FR
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
WITHOUT REINFORCEMENTS
REFER TO CHART #1 SHEET 3 FOR PANELS WITH REINFORCEMENTS RATINGS

ALTECH PANEL SYSTEMS LLC 1 JOHNSON STREET, SUITE 118 CARTERSVILLE, GA 30120		
ACCU-TRAC SYSTEM BY ALTECH/ALPOLIC/ALPOLIC FR ELEVATION		
DRAWN: J.L.	DWG NO. 08-02268	REV -
SCALE NTS	DATE 12/30/13	SHEET 2 OF 5



BILL OF MATERIALS				
ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	ALTP-1	Extrusion Die	Altech	ALUMINUM 6063-T5
2	ALTP-2	3" x 3" Die	Altech	ALUMINUM 6063-T5
3	ALTP-3	Extrusion Die	Altech	ALUMINUM 6063-T5
4	ALTP-5	Extrusion Die	Altech	ALUMINUM 6063-T5
5		4MM Panel	See Note 7	COMPOSITE
6		6MM Panel	See Note 7	COMPOSITE
7		#8 X 3/4" Self Drilling Screw		
8		Reinforcement	Altech	ALUMINUM 6063-T5

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

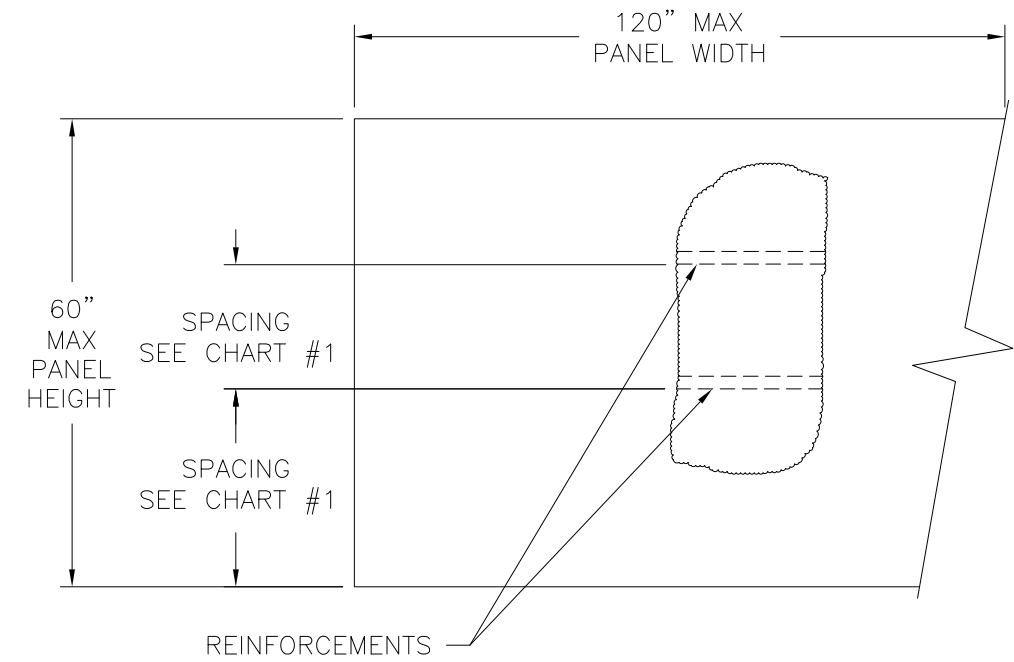
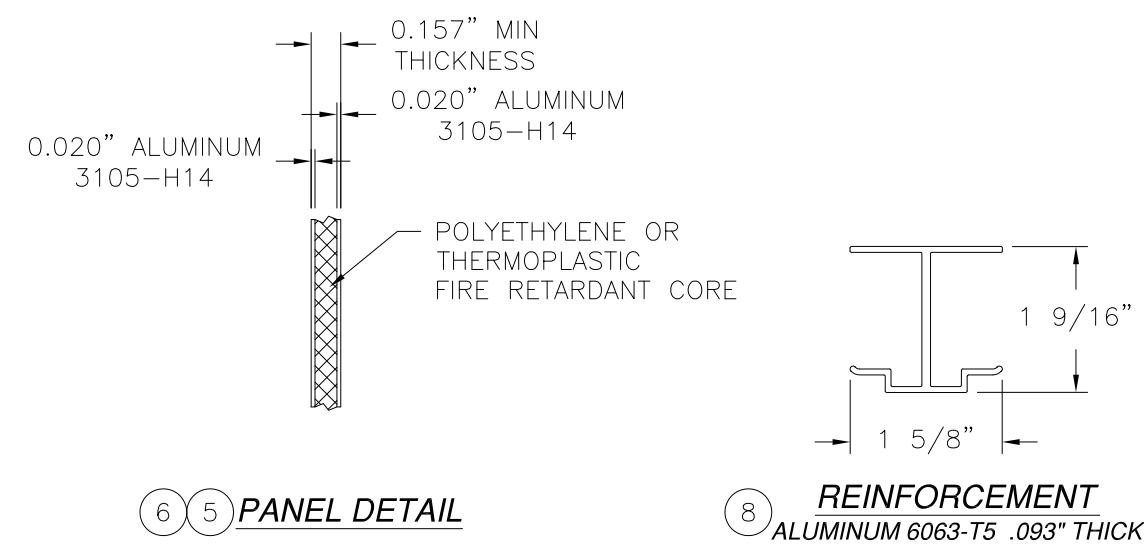
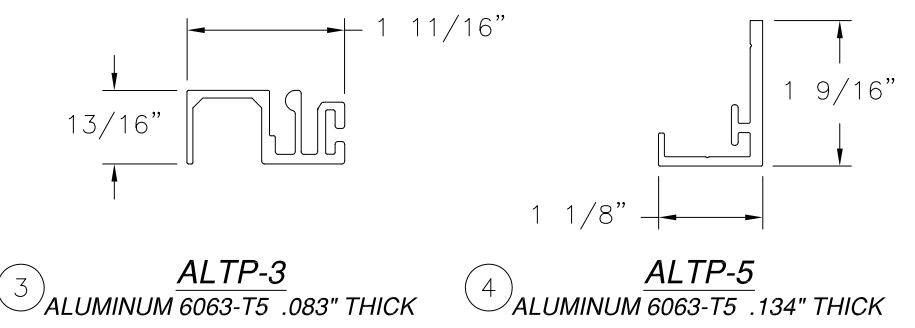
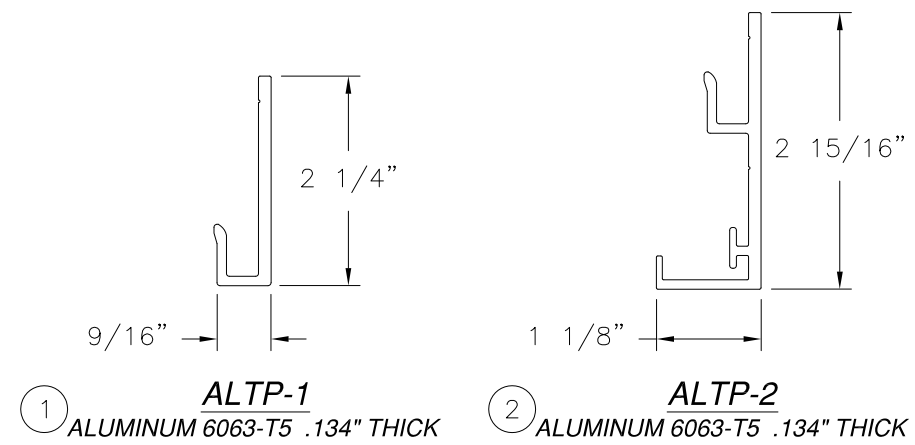


CHART #1
REINFORCEMENTS ARE NOT REQUIRED FOR DESIGN PRESSURES OF 50.0PSF OR LESS

Reinforcement spacing (in)	Panel width (in)																			
	66.0		72.0		78.0		84.0		90.0		96.0		102.0		108.0		114.0		120.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
15.0	100.0	169.2	100.0	167.4	100.0	166.0	100.0	164.7	100.0	163.6	100.0	162.7	100.0	161.9	100.0	161.2	100.0	160.6	100.0	160.0
16.0	100.0	160.0	100.0	158.2	100.0	156.7	100.0	155.4	100.0	154.3	100.0	153.4	100.0	152.6	100.0	151.9	100.0	151.2	100.0	150.7
18.0	100.0	144.7	100.0	142.9	100.0	141.3	100.0	140.0	100.0	138.9	100.0	137.9	100.0	137.1	100.0	136.4	100.0	135.7	100.0	135.1
20.0	100.0	132.6	100.0	130.6	100.0	129.0	100.0	127.7	100.0	126.6	100.0	125.6	100.0	124.7	100.0	124.0	100.0	123.3	100.0	122.7
24.0	100.0	114.6	100.0	112.5	100.0	110.8	100.0	109.4	100.0	108.2	100.0	107.1	100.0	106.3	100.0	105.5	100.0	104.8	100.0	104.2
27.0	100.0	104.8	100.0	102.6	100.0	100.8	99.3	99.3	98.0	98.0	97.0	97.0	96.0	96.0	95.2	95.2	94.5	94.5	93.9	93.9
30.0	97.1	97.1	94.7	94.7	92.9	92.9	91.3	91.3	90.0	90.0	88.9	88.9	87.9	87.9	87.1	87.1	86.4	86.4	85.7	85.7

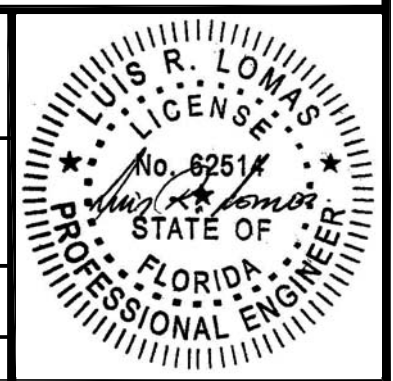


ALTECH PANEL SYSTEMS LLC
1 JOHNSON STREET, SUITE 118
CARTERSVILLE, GA 30120

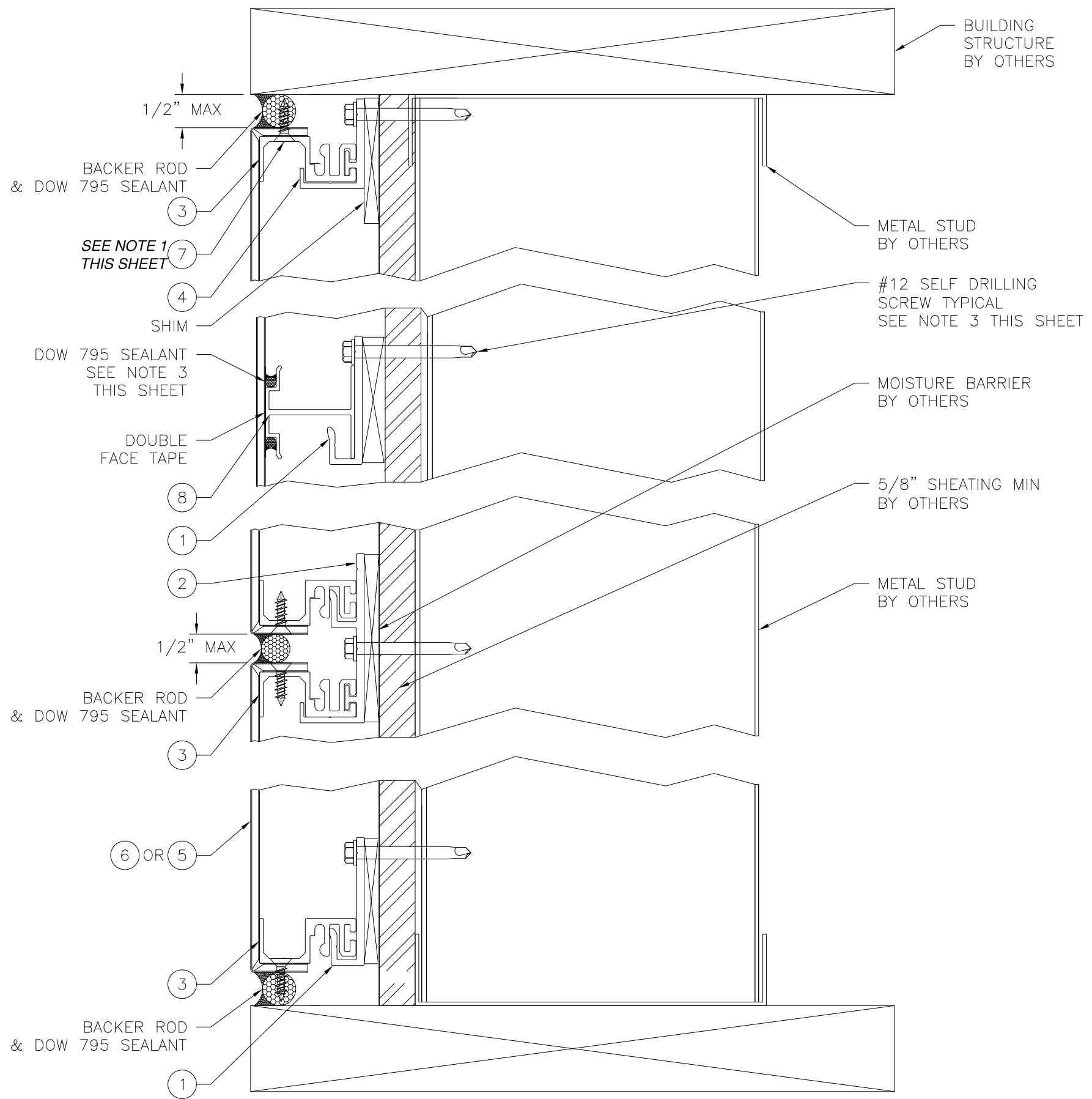
ACCU-TRAC SYSTEM
BY ALTECH/ALPOLIC/ALPOLIC FR
B.O.M., INSTALLATION DETAILS AND COMPONENTS

DRAWN: J.L. DWG NO. 08-02268 REV -

SCALE NTS DATE 12/30/13 SHEET 3 OF 5



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

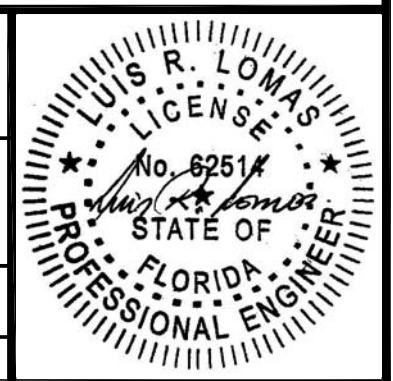


NOTES:

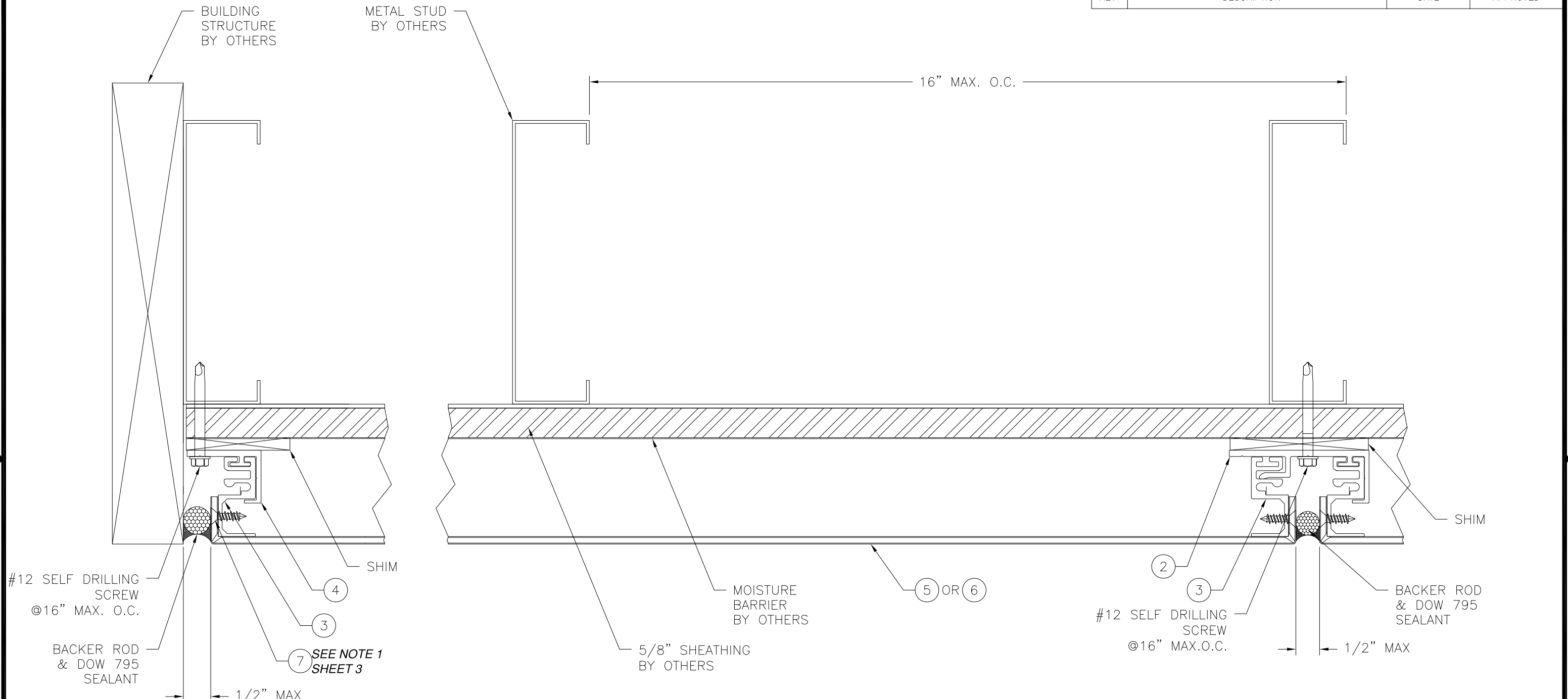
- ANCHOR PANEL, ITEMS 5 OR 6 TO PERIMETER EXTRUSION USING ITEM 7. LOCATE ANCHORS 3/4" FROM EACH CORNER AND 10" MAX O.C. THEREAFTER.
- LOCATE ANCHORS 3" MAXIMUM FROM EACH PANEL CORNER AND 16" MAXIMUM O.C. THEREAFTER.
- WHEN REINFORCEMENTS ARE REQUIRED. ATTACH REINFORCEMENT TO PANEL USING DOW 795 OR BETTER STRUCTURAL ADHESIVE. LOCATE REINFORCEMENT ANCHORS 3" MAXIMUM FROM EACH CORNER AND 12" MAXIMUM O.C. THEREAFTER.

A
3 VERTICAL SECTION
INSTALLATION DETAILS

ALTECH PANEL SYSTEMS LLC 1 JOHNSON STREET, SUITE 118 CARTERSVILLE, GA 30120		
ACCU-TRAC SYSTEM BY ALTECH/ALPOLIC/ALPOLIC FR B.O.M., INSTALLATION DETAILS AND COMPONENTS		
DRAWN: J.L.	DWG NO. 08-02268	REV -
SCALE NTS	DATE 12/30/13	SHEET 4 OF 5



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



B
4 HORIZONTAL SECTION
INSTALLATION DETAILS

ALTECH PANEL SYSTEMS LLC
 1 JOHNSON STREET, SUITE 118
 CARTERSVILLE, GA 30120

ACCU-TRAC SYSTEM
 BY ALTECH/ALPOLIC/ALPOLIC FR
 INSTALLATION DETAILS

DRAWN: J.L.	DWG NO. 08-02268	REV -
SCALE NTS	DATE 12/30/13	SHEET 5 OF 5

