

GENERAL NOTES

- ## MATERIAL SPECIFICATIONS:

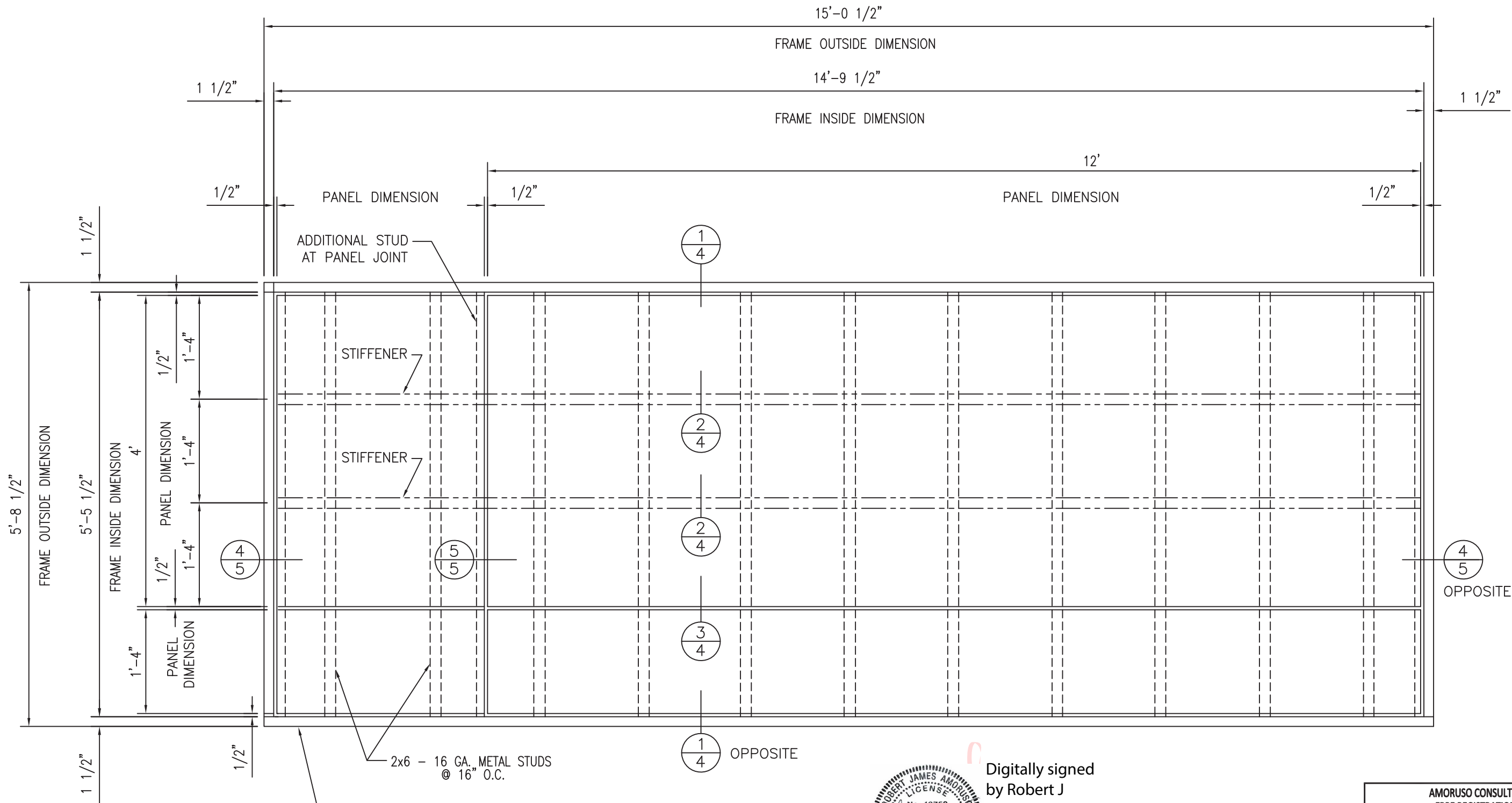
ALUMINUM EXTRUSIONS

- ## COMPOSITE PANEL

- ## FRAMING & ACCESSORIES

1. STEEL STUDS AND TRACKS: 16 GA. MIN. GALVANIZED STEEL WITH MIN. PROPERTIES OF 50 KSI YIELD, 65 KSI ULTIMATE.
2. STUD & TRACK FASTENERS: #12 x 1-1/2" HEX WASHER HEAD HEAVY DUTY TEKS 4, 4.5, OR 5 BY ITW BUILDEX SCREW OR STUD & TRACK FASTENERS: #12 x 1-1/2" HEX WASHER HEAD TEKS SELECT BY ITW BUILDEX SCREW.
3. PANEL FASTENERS: #10 x 1" HEX WASHER HEAD ITW BUILDEX TEK SCREWS SPACED AT 16" O.C.
4. STIFFENER FASTENERS: #10 x 1" HEX WASHER HEAD ITW BUILDEX TEK SCREWS.
5. JOINT SILICONE: DOW CORNING #795 SILICONE SEALANT.
6. STRUCTURAL SILICONE: DOW CORNING #1199 SILICONE SEALANT.
7. BACKER ROD: 3/4" DIA. DENVER FOAM OPEN CELL BACKER ROD.
8. THE STRUCTURAL ADEQUACY OF THE 16 GA. GALVANIZED STEEL STUDS AND THE REST OF THE STRUCTURAL FRAMING SUPPORTING THE METAL PANELS IS NOT PART OF THIS PRODUCT CONTROL APPROVAL AND IT SHALL BE REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT.
0. ALL FASTENERS AND CONNECTORS TO BE CORROSION RESISTANT, AND/OR HAVE A CORROSION RESISTANT COATING, OR MEET THE REQUIREMENTS OF SECTION 1711, 9TH EDITION (2026) FBC AND SECTION R332, 9TH EDITION (2026) FRC WHEN APPLICABLE.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .XX ± .01 ± 1/2 .XXX ± .005	CONTRACT NO.		MITSUBISHI CHEMICAL AMERICA ALPOLIC DIVISION			
	APPROVALS	DATE	ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS			
MATERIAL	DRAWN					
FINISH	ENGINEERING	MS				
	PROJ MGMT					
DO NOT SCALE DRAWING	PRODUCTION		SIZE B	CAGE CODE	DWG NO. MPCA0002	REV 8
			SCALE SHOWN		SHEET 1 OF 11	



THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.

PANEL ELEVATION
3/4" = 1'-0"

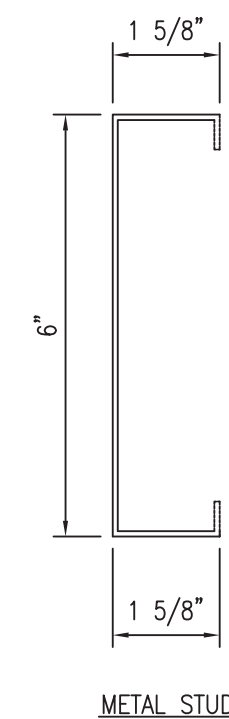
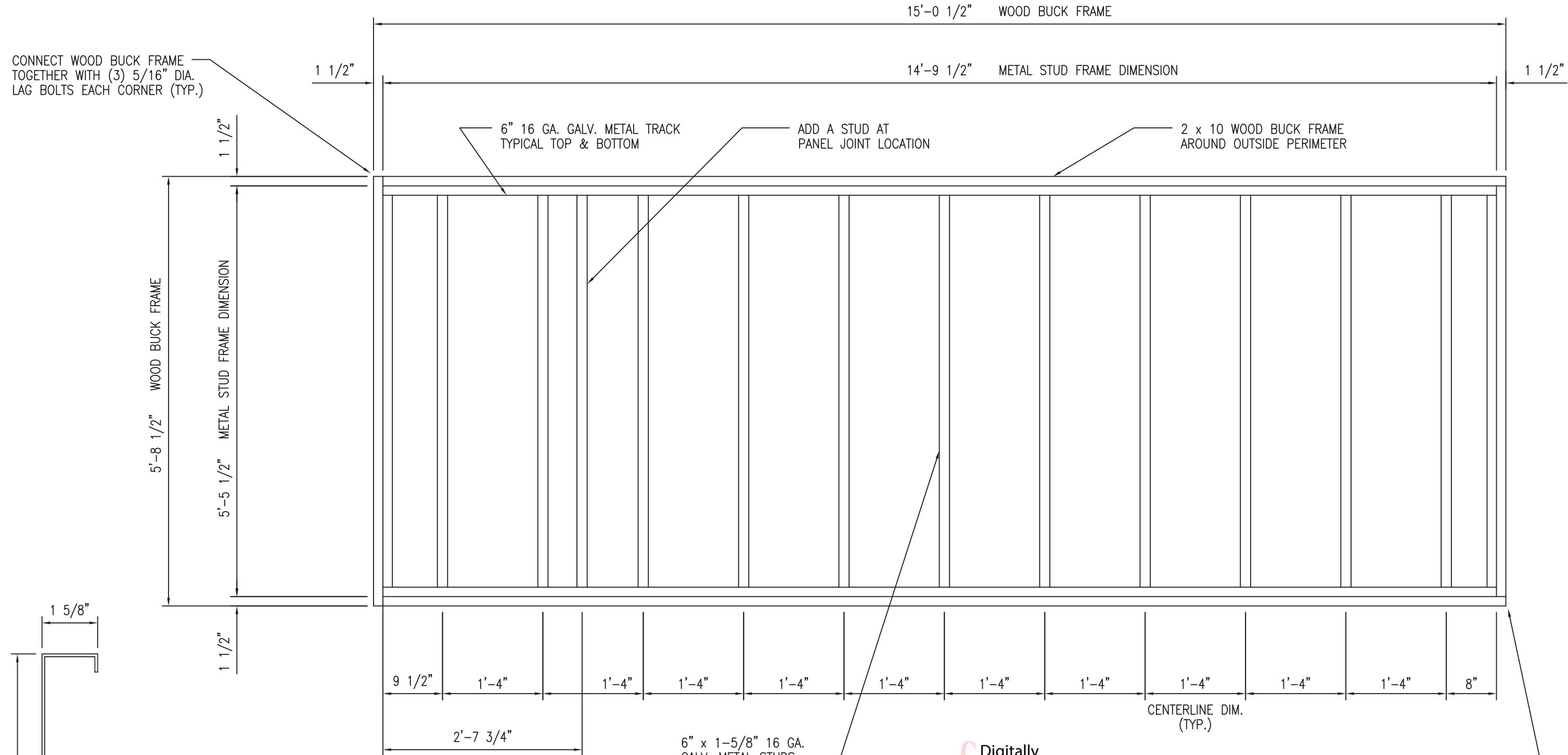


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by Robert J
Amoruso
Date:
2026.08.05
10:49:07 -04'00'

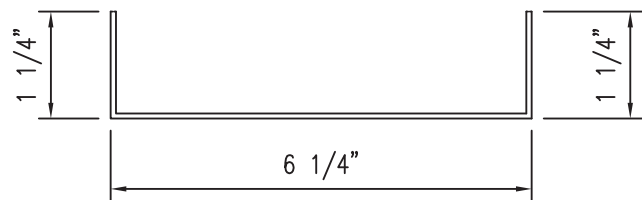
Robert J. Amoruso, P.E. FL P.E. No. 49752			
8	RJA	8/2/26	UPDATE TO 9TH EDITION (2020) FBC
7	RJA	6/13/23	NAME CHANGE TO MITSUBISHI CHEMICAL AMERICA, ALPOLIC DIVISION
6	RJA	4/14/17	NAME CHANGE TO MITSUBISHI CHEMICAL COMPOSITES AMERICA
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4	RJA	6/10/12	UPDATE TO 2010 FBC
3	TH	1/10/12	EXTRUSION AND PANEL NOTE CHANGES
REV.	BY	DATE	CHANGE

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FRACTIONS ± 1/32	DECIMALS .XX ± .01 .XXX ± .005	ANGLES ± 1/2		
MATERIAL			APPROVALS	DATE
FINISH			DRAWN	
			ENGINEERING	MS 11/11/02
			PROJ MGMT	
DO NOT SCALE DRAWING			PRODUCTION	

AMORUSO CONSULTING ENG., LLC FBPE REGISTRATION NO. 38327 226 N NOVA RD, NO. 142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM			
Kistler McDougall			
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SIZE B	CAGE CODE	DWG NO. MPCA0002	REV 8
SCALE SHOWN	SHEET 2 OF 11		



METAL STUD



STEEL TRACK

STUD FRAMING ELEVATION

3/4" = 1'-0"



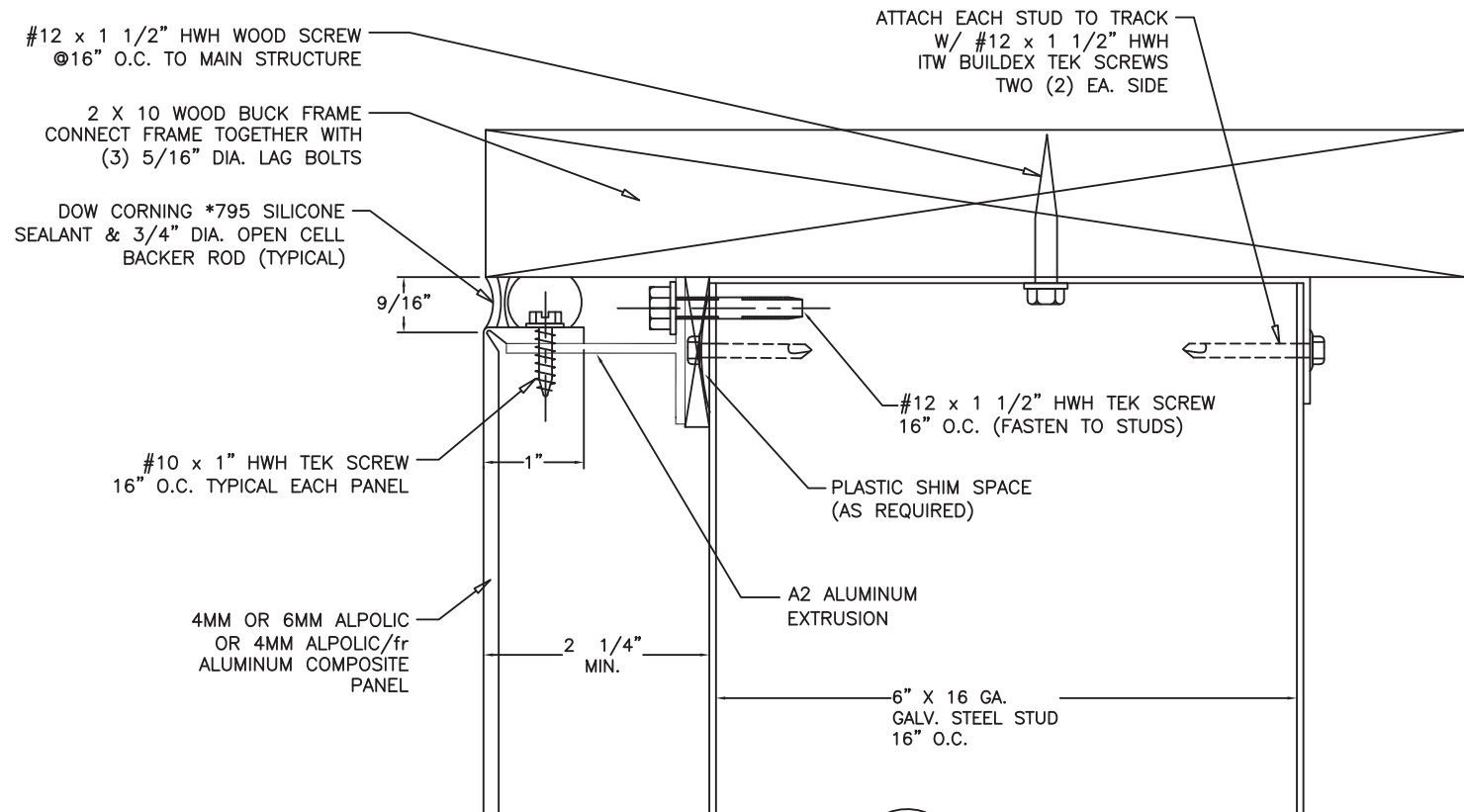
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FL P.E. No. 49752

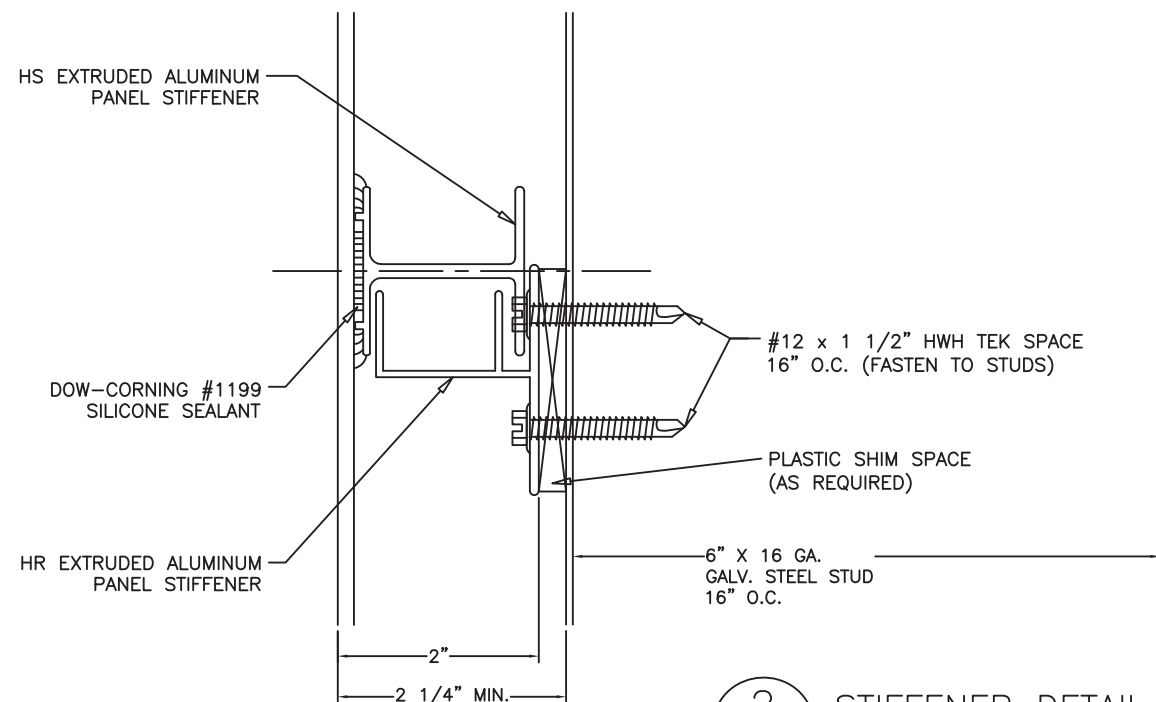
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FINISH	ENGINEERING MS		11/11/02	
		PROJ MGMT		
DO NOT SCALE DRAWING		PRODUCTION		

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SIZE B	CAGE CODE	DWG NO. MPCA0002	REV 8
SCALE SHOWN			SHEET 3 OF 11

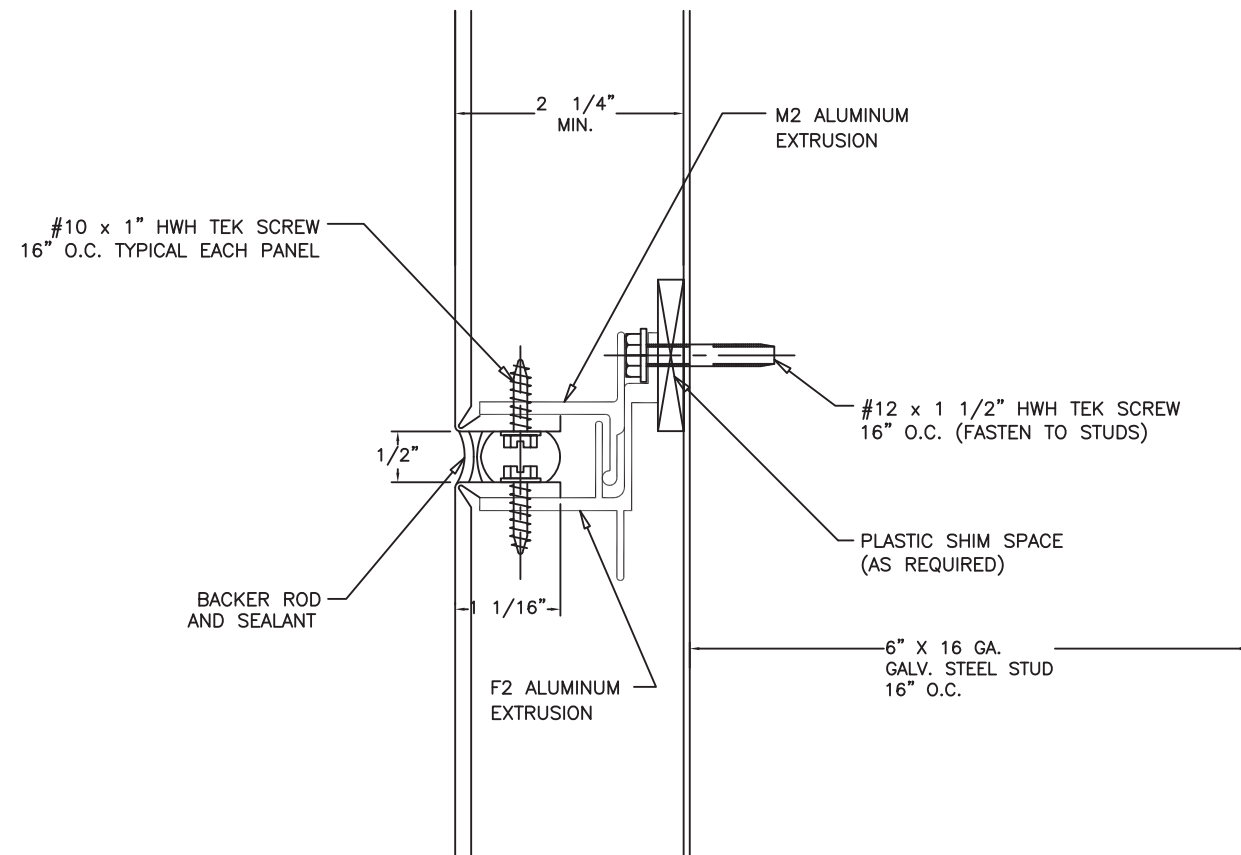


1
4
DETAIL
SCALE: 6" = 1'



2
4
STIFFENER DETAIL
SCALE: 6" = 1'

THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.



3
4
JOINT DETAIL
SCALE: 6" = 1'



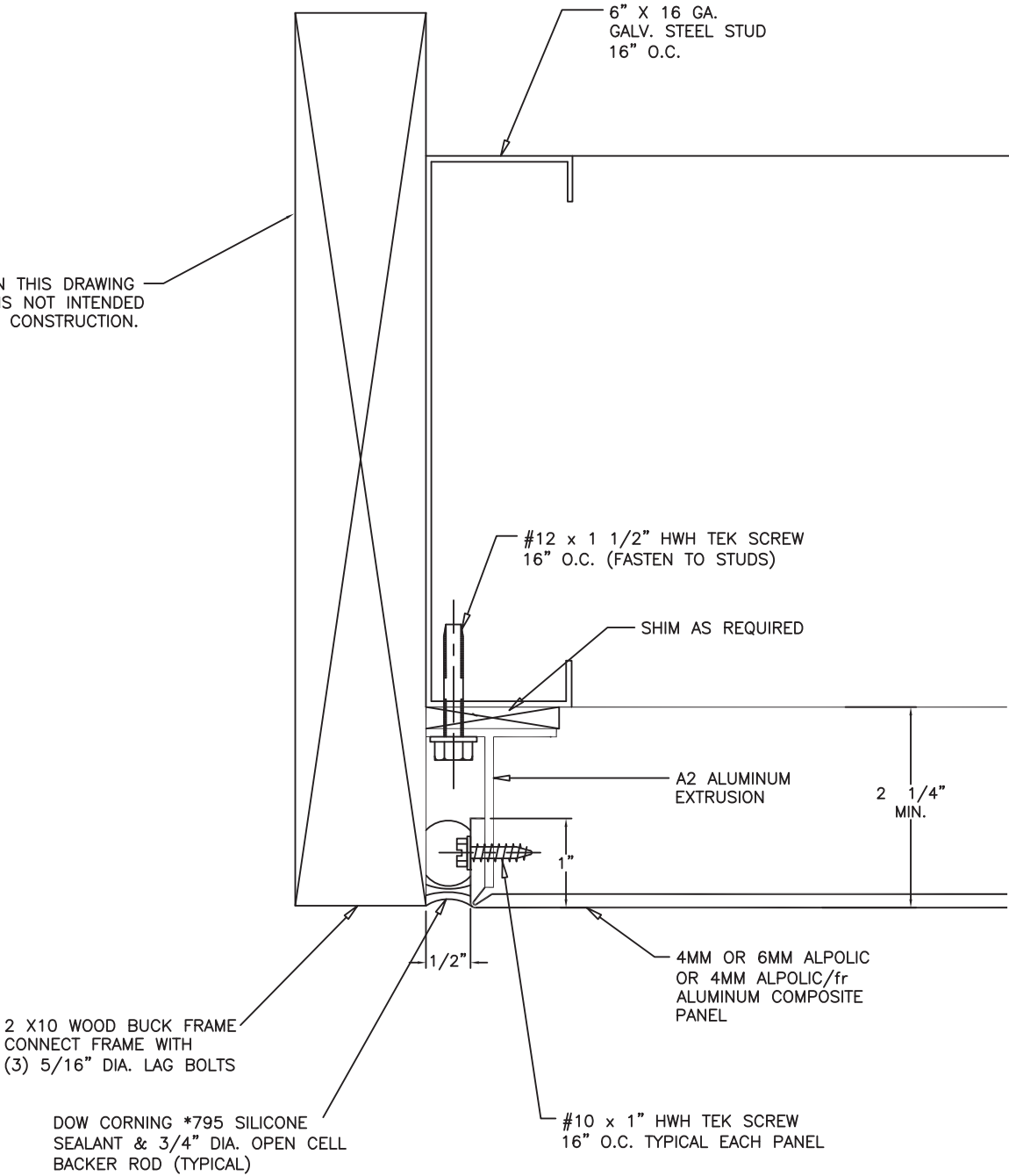
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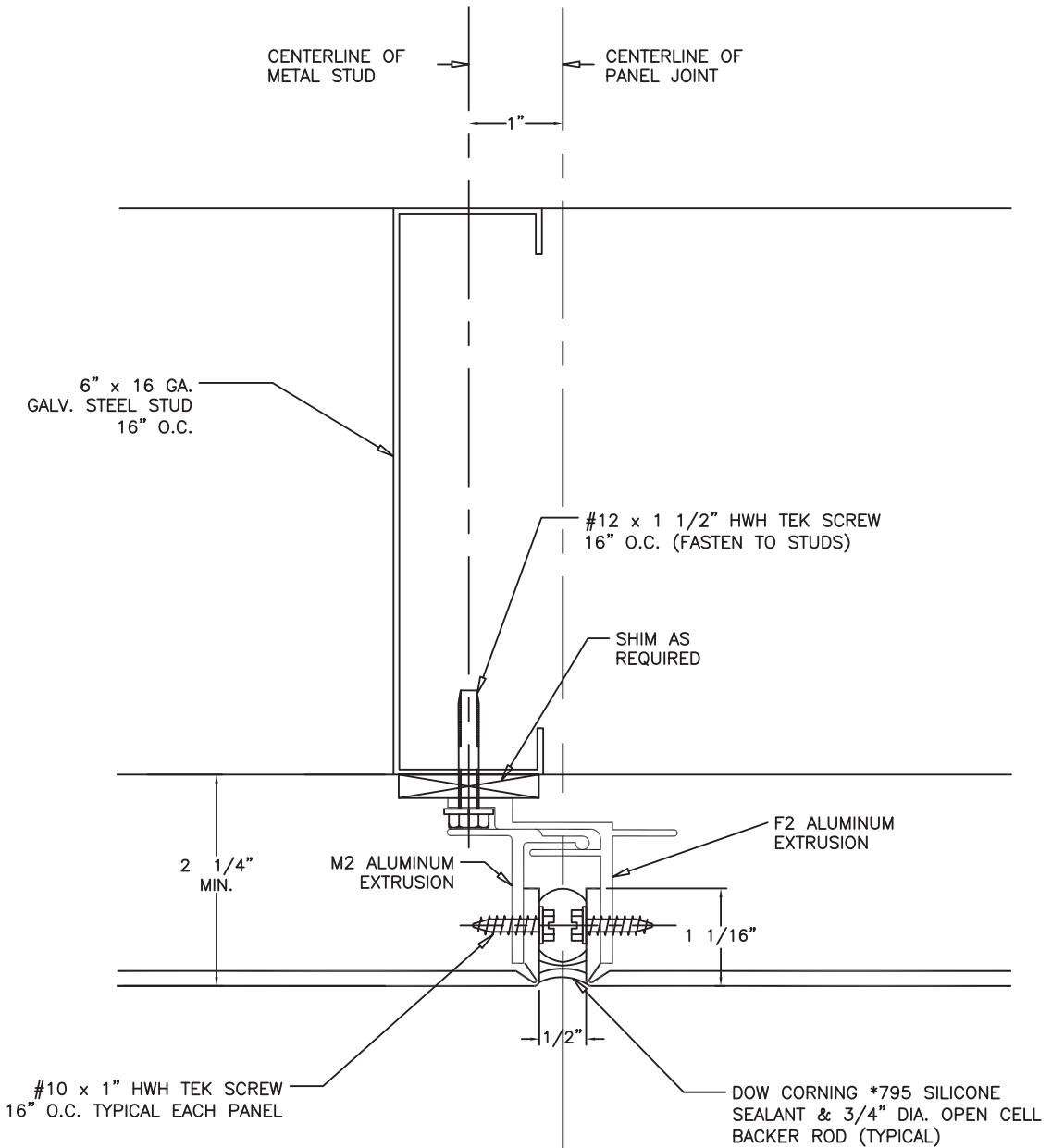
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FINISH			DRAWN	
			ENGINEERING	MS 11/11/02
			PROJ MGMT	
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MITSUBISHI CHEMICAL AMERICA ALPOLIC DIVISION		Kistler McDougall		
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SIZE B	CAGE CODE	DWG NO. MPCA0002	REV 8	
SCALE SHOWN		SHEET 4 OF 11		

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4
5
DETAIL
SCALE: 6" = 1'



5
5
DETAIL
SCALE: 6" = 1'



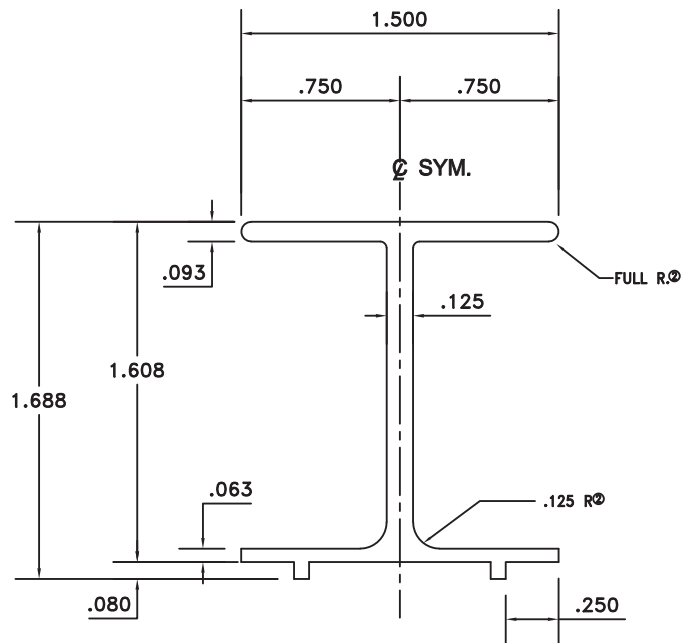
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FINISH		ENGINEERING MS		11/11/02				
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		PRODUCTION						
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SCALE SHOWN				SHEET 5 OF 11				

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ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS	

HS



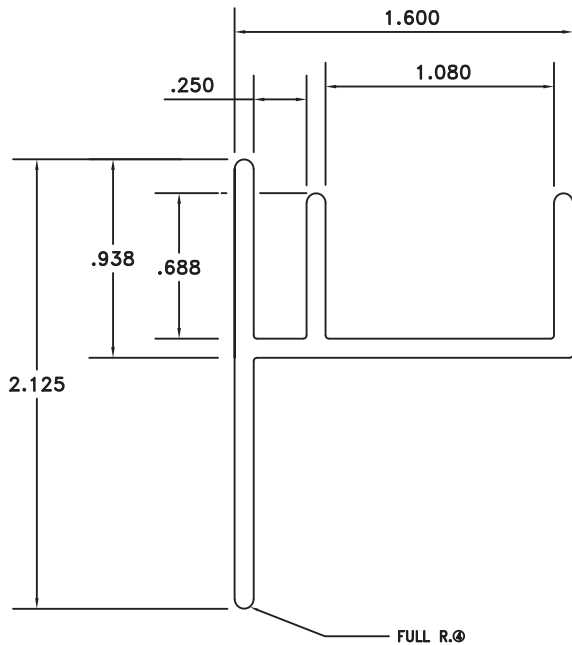
BREAK CORNERS .015 R
EXCEPT AS NOTED
ACTUAL SIZE

DIE DATA

EST. AREA: .430
EST. WEIGHT: .516
EST. PERI.:
FACTOR:

DIE SIZE: 6
NO. HOLES: 1
EXT. LENGTH: 5 1/8" = 1 @ 35'
R/R:

HR



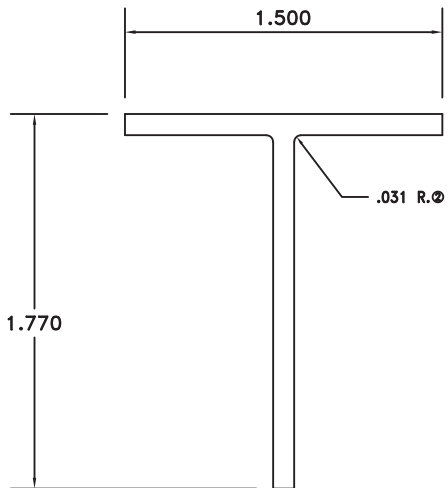
BREAK CORNERS .015 R
.090 TYPICAL METAL THICKNESS
ACTUAL SIZE

DIE DATA

EST. AREA: .465
EST. WEIGHT: .558
EST. PERI.:
FACTOR:

DIE SIZE: 6
NO. HOLES: 1
EXT. LENGTH: 5 1/8" = 1 @ 36'
R/R

A2



BREAK CORNERS .010 R
.100 WALL THICK TYPICAL
ACTUAL SIZE

DIE DATA

EST. AREA: .317
EST. WEIGHT: .380
EST. PERI.: 6.54
FACTOR: 17

DIE SIZE: 6
NO. HOLES: 1
EXT. LENGTH:
R/R: 5 1/8" = 1 @ 53'



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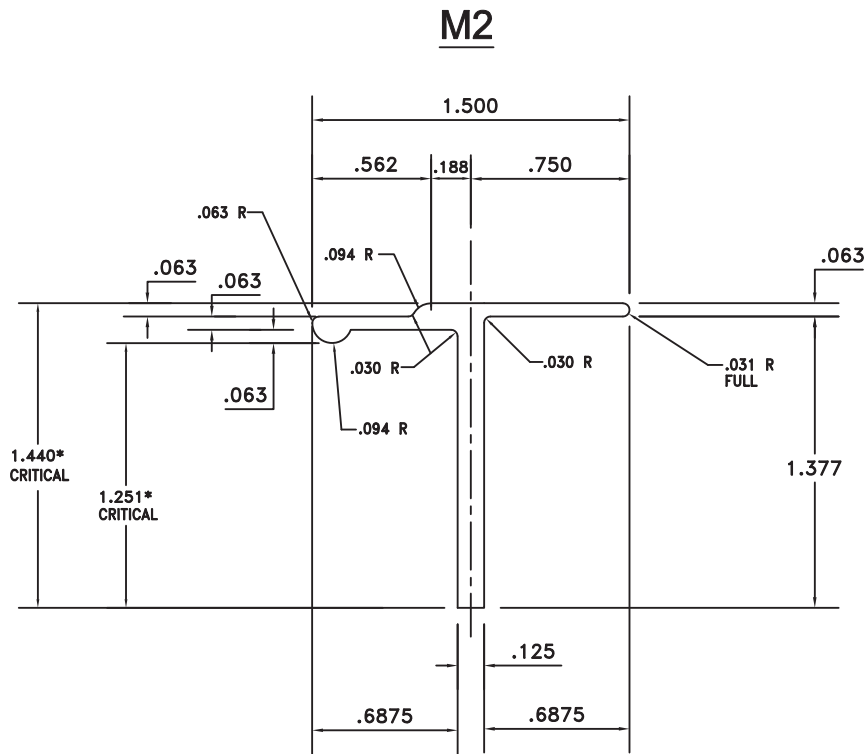
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MATERIAL			APPROVALS	DATE
FINISH			ENGINEERING MS	11/11/02
DO NOT SCALE DRAWING			PROJ MGMT	
			PRODUCTION	
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SIZE B	CAGE CODE	DWG NO. MPCA0002	REV 8	
SCALE SHOWN		SHEET 6 OF 11		

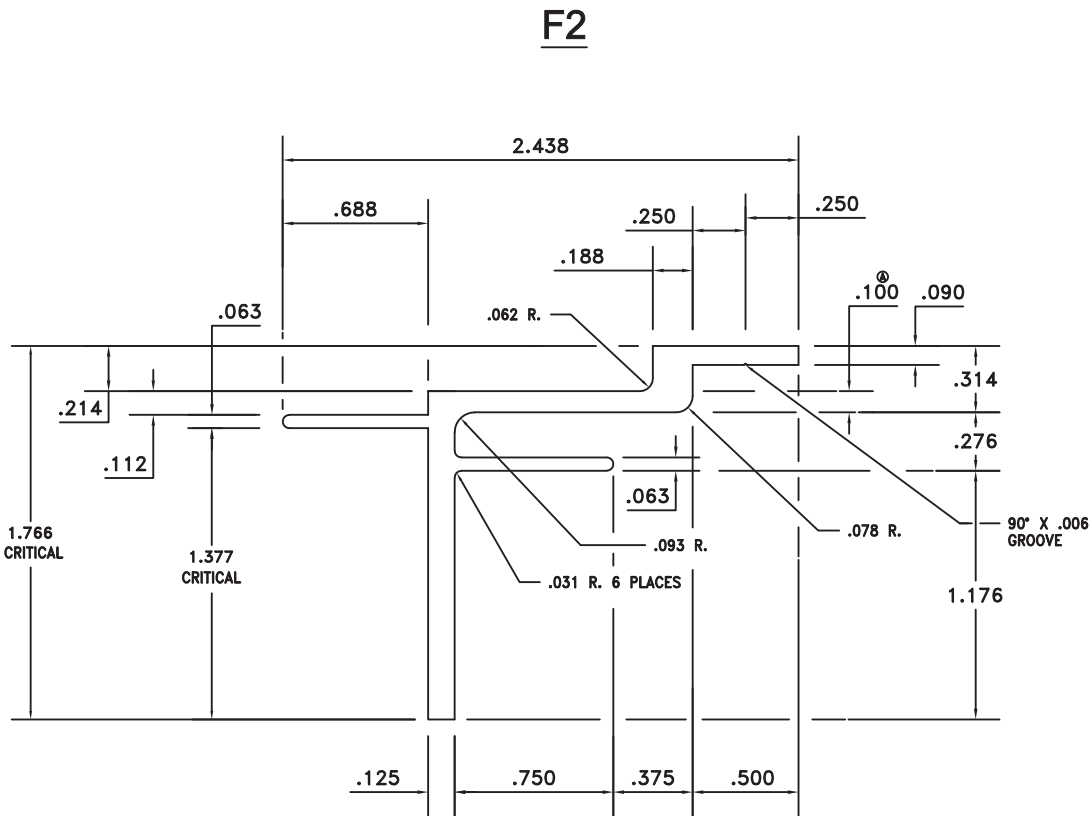
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM

Kistler McDougall



ACTUAL SIZE
BREAK SHARP CORNERS .005 R

DIE DATA
EST. AREA: .275 DIE SIZE: 6
EST. WEIGHT: .330 NO. HOLES: 1
EST. PERI.: 5.831 EXT. LENGTH: 4 1/2 = 1- 46'
FACTOR: 18 R/R: 5 1/8" = 1- 62'



ACTUAL SIZE
BREAK SHARP CORNERS .010R

DIE DATA
EST. AREA: .484 DIE SIZE: 6
EST. WEIGHT: .581 NO. HOLES: 1
EST. PERI.: 9.900 EXT. LENGTH: 5 1/8 = 1@34'
FACTOR: 17 R/R



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Amoruso
Date: 2026.08.05
10:50:16 -04'00'

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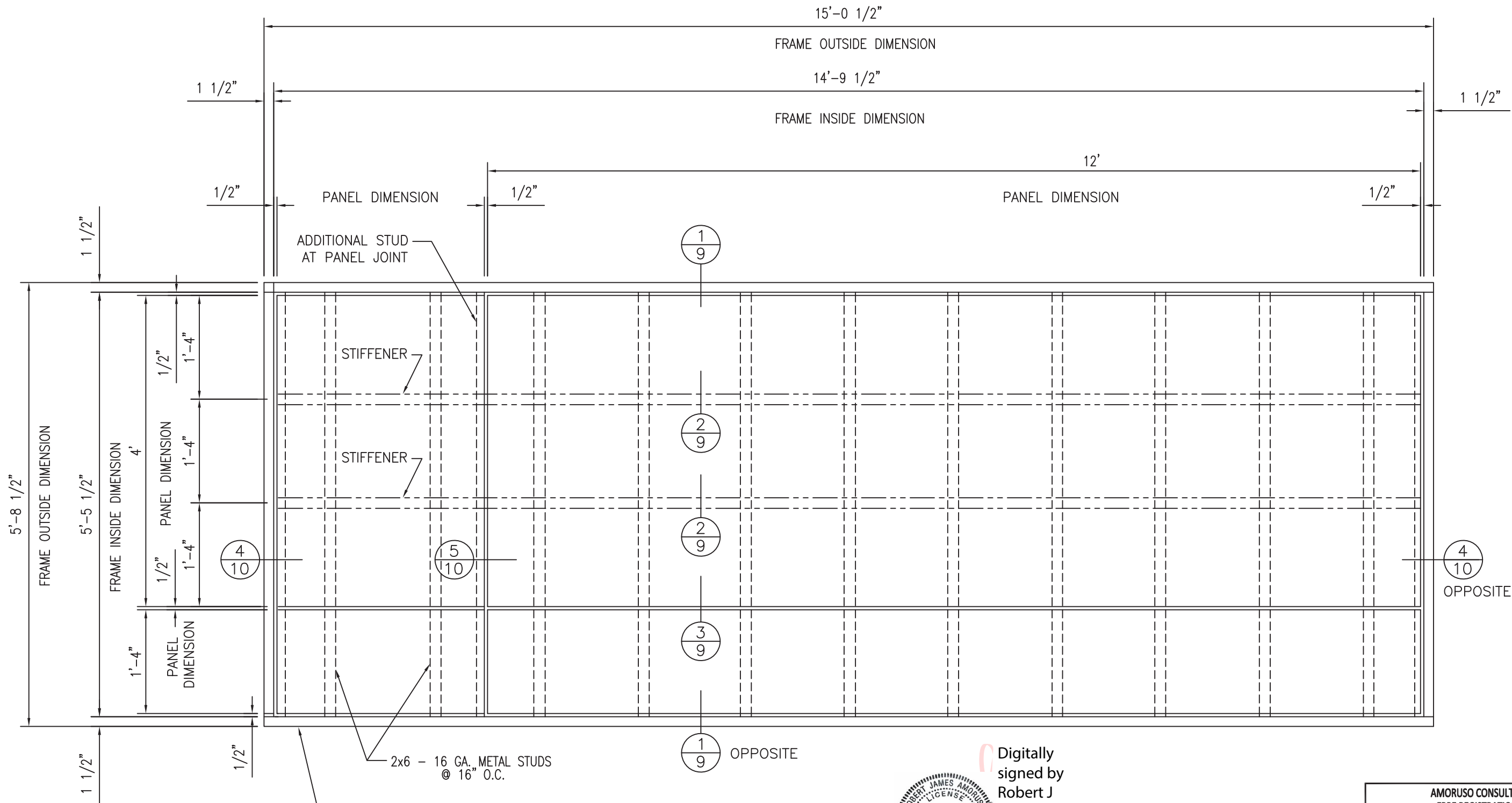
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MATERIAL			APPROVALS	DATE
FINISH			DRAWN	
			ENGINEERING	MS 11/11/02
			PROJ MGMT	
			PRODUCTION	
DO NOT SCALE DRAWING				
SIZE B	CAGE CODE	DWG NO. MPCA0002	REV 8	
SCALE SHOWN		SHEET 7 OF 11		

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ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM

Kistler McDougall

MITSUBISHI CHEMICAL AMERICA
ALPOLIC DIVISION

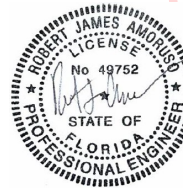
ALPOLIC and ALPOLIC/fr
COMPOSITE WALL PANEL SYSTEMS



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PANEL ELEVATION
3/4" = 1'-0"

Digitally signed by
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2026.08.05
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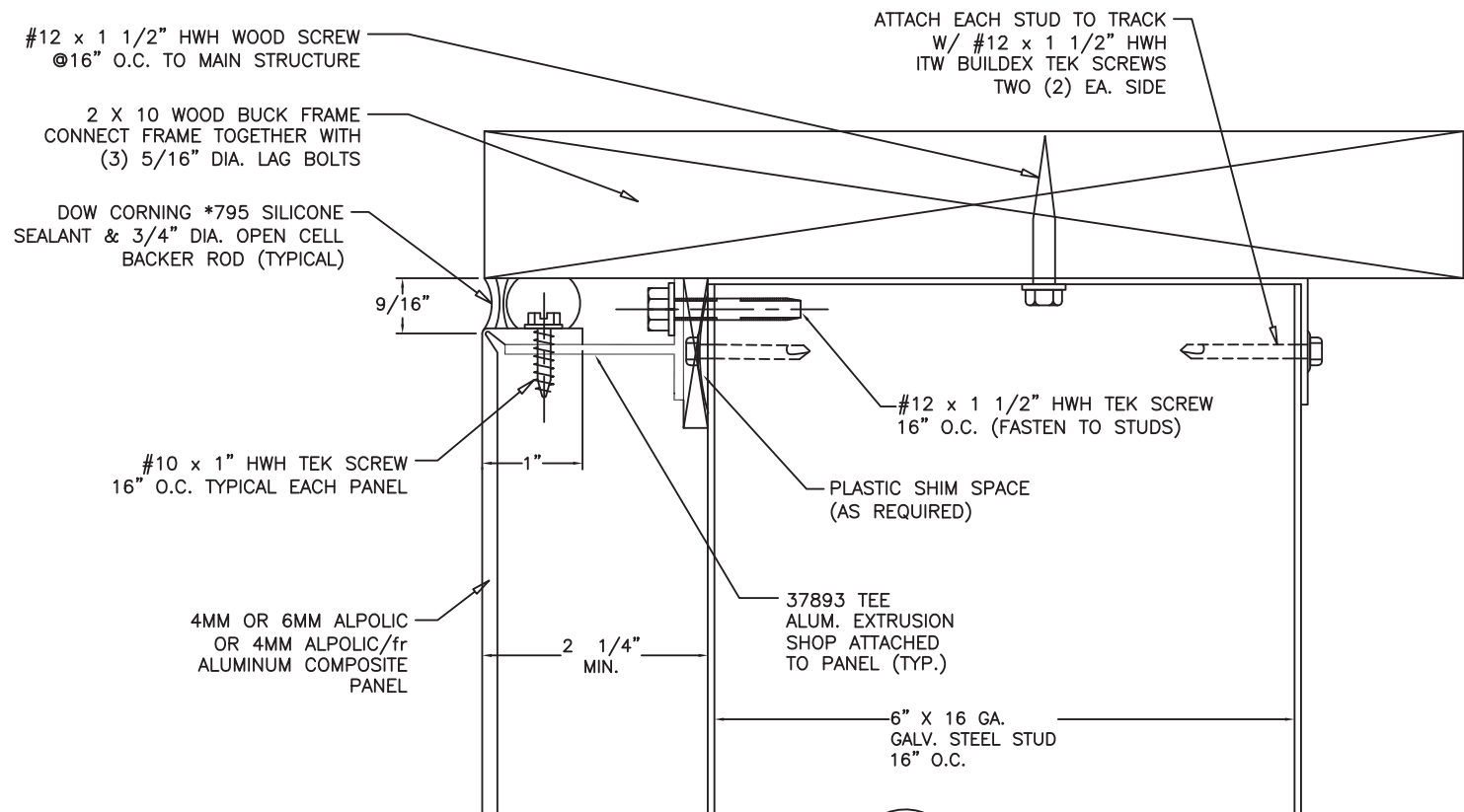


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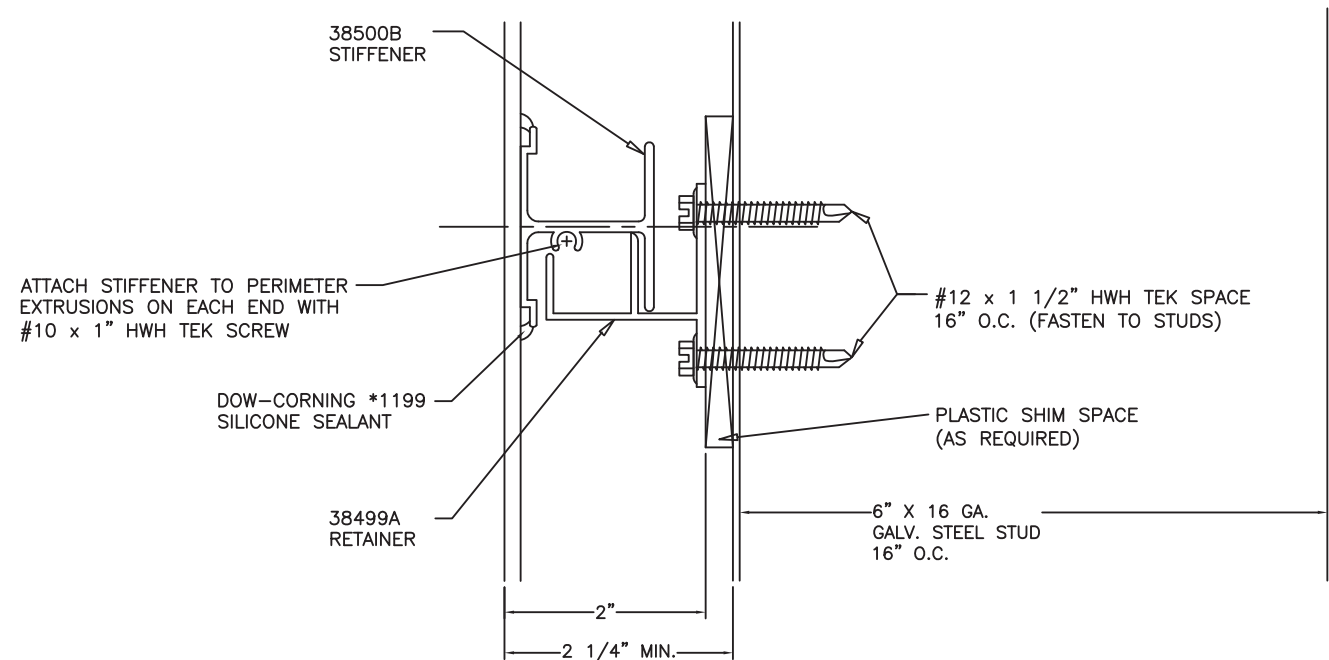
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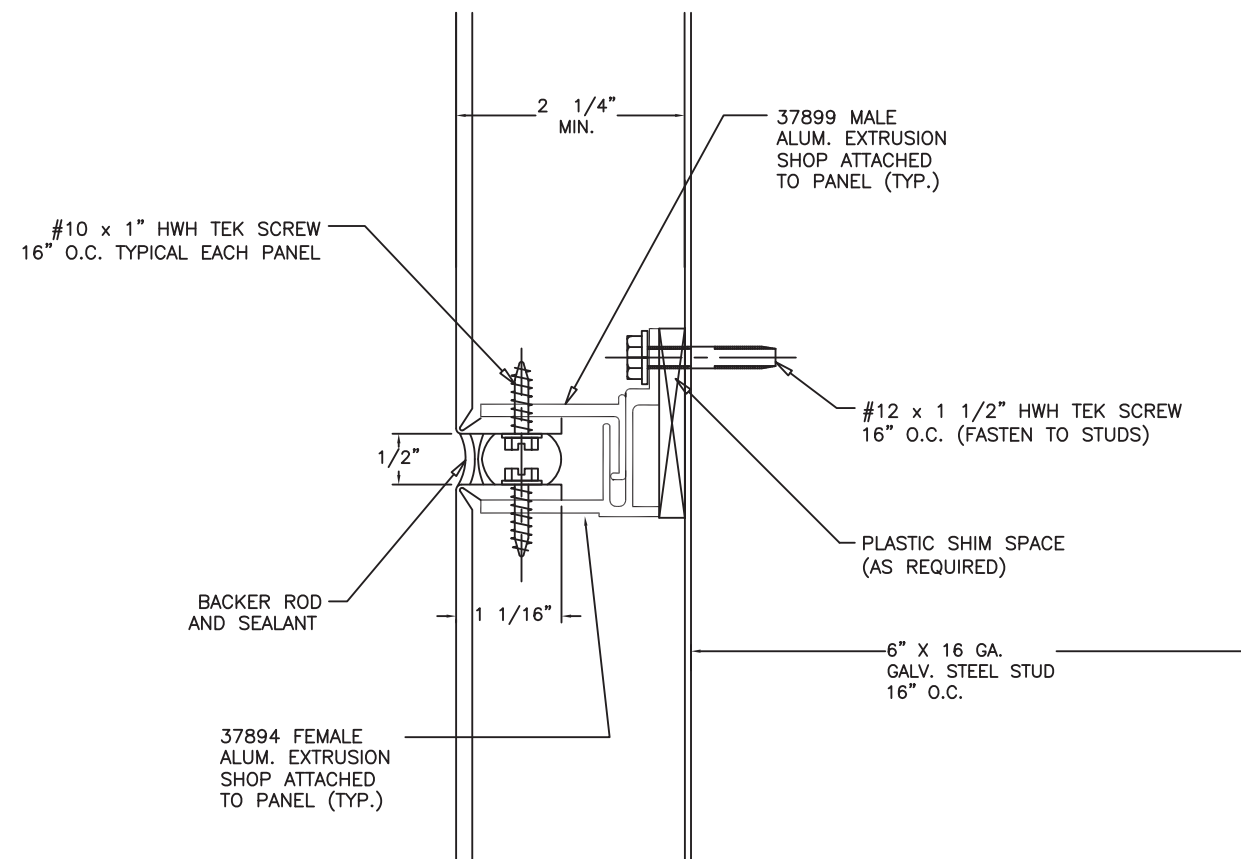
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SAF METAL FABRICATION			
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SIZE B	CAGE CODE	DWG NO. MPCA0002	REV 8
SCALE SHOWN		SHEET 8 OF 11	



1
9
DETAIL
SCALE: 6" = 1'



2
9
STIFFENER DETAIL
SCALE: 6" = 1'



3
9
JOINT DETAIL
SCALE: 6" = 1'



Digitally signed
by Robert J
Amoruso
Date: 2026.08.05
10:50:44 -04'00'

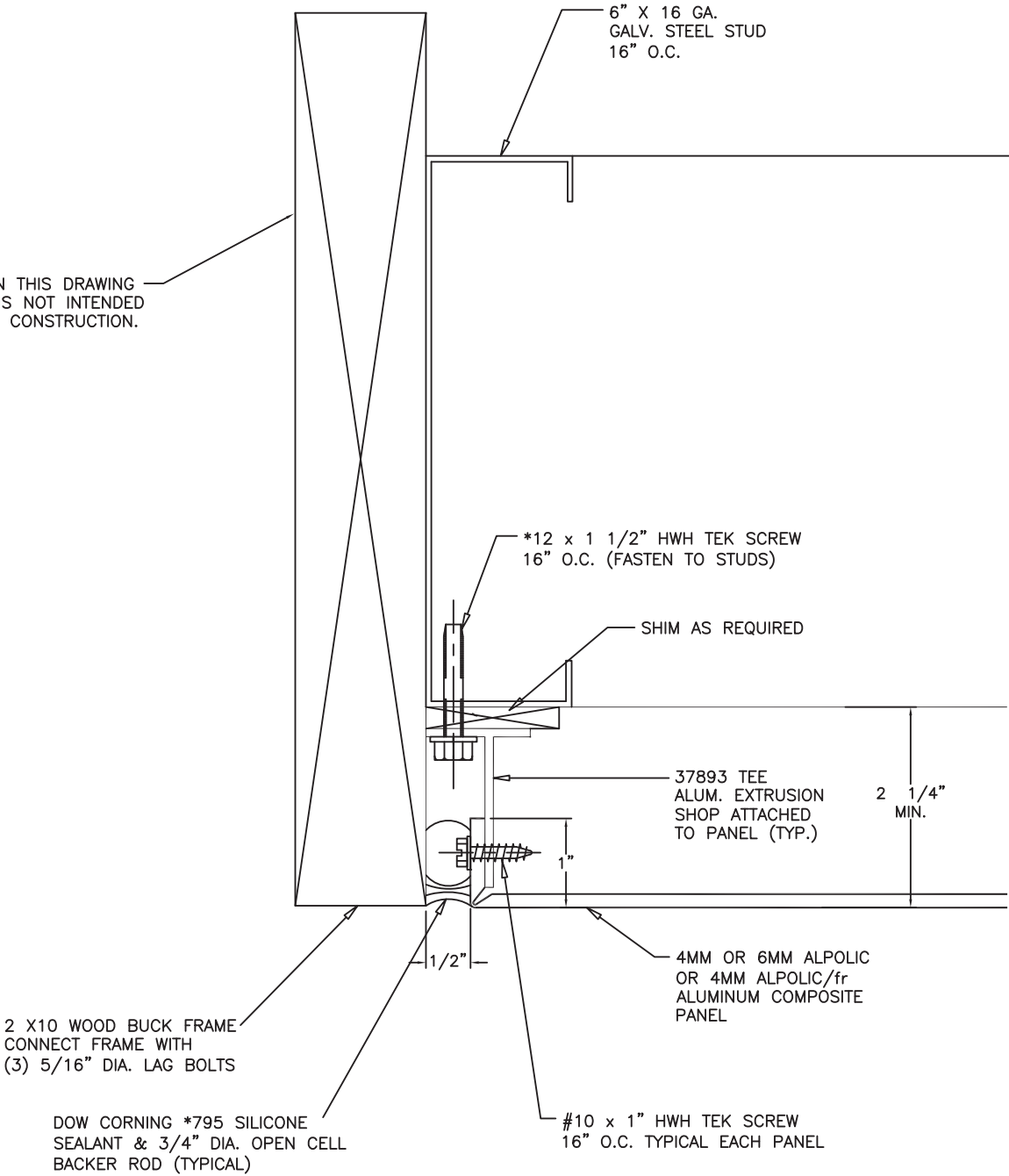
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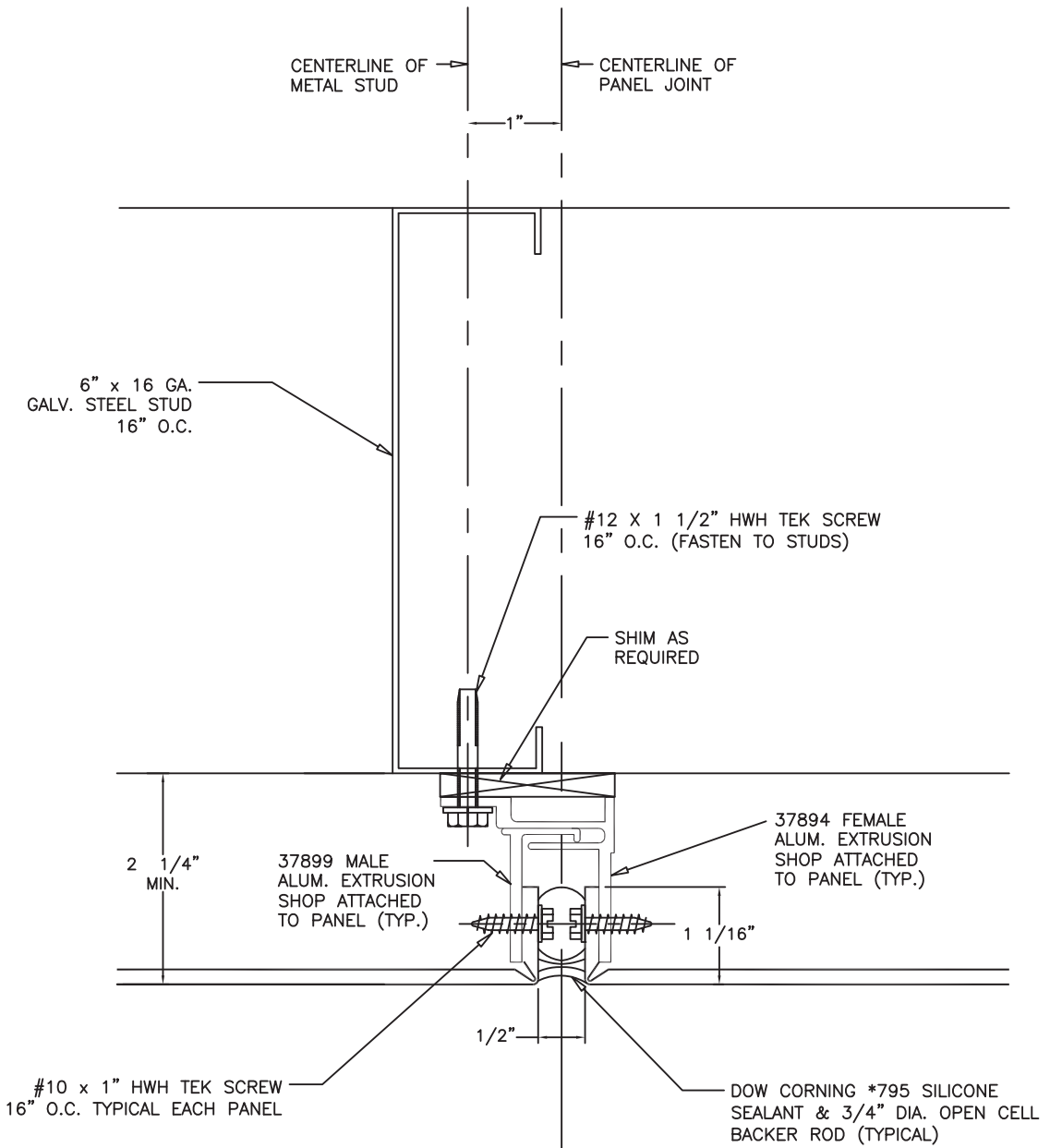
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			PRODUCTION	
DO NOT SCALE DRAWING				

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SCALE SHOWN		SHEET 9 OF 11		

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4
10
DETAIL
SCALE: 6" = 1'



5
10
DETAIL
SCALE: 6" = 1'



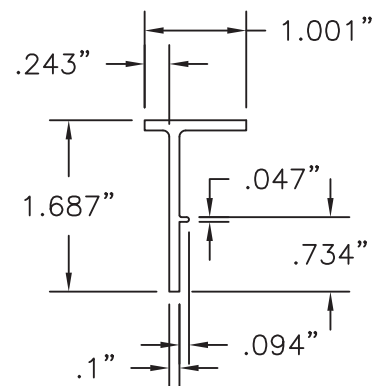
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Amoruso
Date: 2026.08.05
10:50:55 -04'00'

Robert J. Amoruso, P.E. FL P.E. No. 49752			
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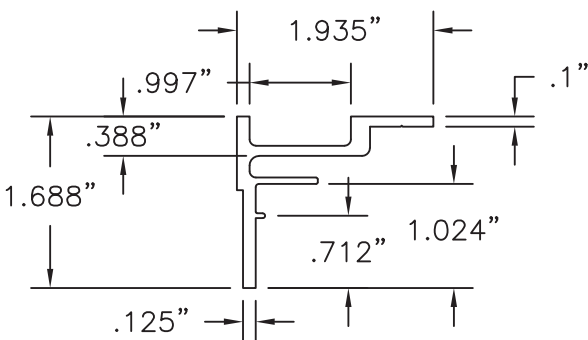


ACM TERMINATOR

EXTRUDED ALUMINUM 6063-T6

Die Data: #SAF-37893

Area = .265
Wt./Ft. = .318
Perim. = 5.483
Circle Size = 0-3
Ix = .078, Iy = .011
Sx = .070, Sy = .018
Cgy = 1.116, Cgx = .628

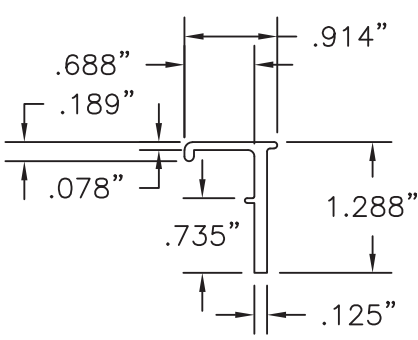


ACM FEMALE

EXTRUDED ALUMINUM 6063-T6

Die Data: #SAF-37894

Area = .499
Wt./Ft. = .599
Perim. = 9.154
Circle Size = 0-3
Ix = .100, Iy = .161
Sx = .086, Sy = .120
Cgy = 1.160, Cgx = 1.348

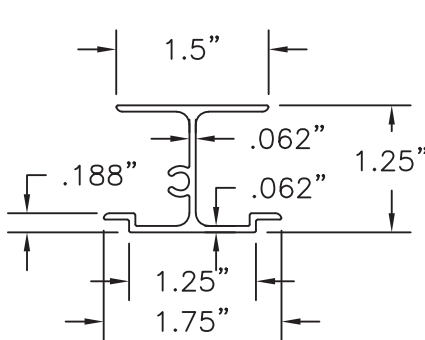


ACM MALE

EXTRUDED ALUMINUM 6063-T6

Die Data: #SAF-37899

Area = .234
Wt./Ft. = .281
Perim. = 4.646
Circle Size = 0-3
Ix = .039, Iy = .012
Sx = .048, Sy = .019
Cgy = .819, Cgx = .633

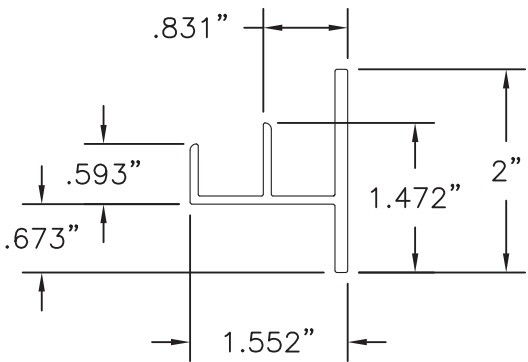


PANEL STIFFENER

EXTRUDED ALUMINUM 6063-T6

Die Data: #SAF-38500B

Area = .325
Wt./Ft. = .390
Perim. = 9.749
Circle Size = 0-3
Ix = .081, Iy = .049
Sx = .120, Sy = .056
Cgy = .676, Cgx = .886

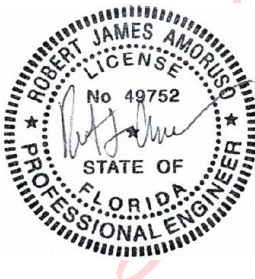


RETAINER

EXTRUDED ALUMINUM 6063-T6

Die Data: #SAF-38499A

Area = .4610
Wt./Ft. = .542
Perim. = 9.4387
Circle Size = 0-3
Ix = .095, Iy = .1262
Sx = .09, Sy = .117



Digitally signed
by Robert J
Amoruso
Date:
2026.08.05
10:51:08 -04'00'

Robert J. Amoruso, P.E.
FL P.E. No. 49752

8	RJA	8/2/26	UPDATE TO 8TH EDITION (2024) FBC
7	RJA	6/13/23	NAME CHANGE TO MITSUBISHI CHEMICAL AMERICA, ALPOLIC DIVISION
6	RJA	4/14/17	NAME CHANGE TO MITSUBISHI CHEMICAL COMPOSITES AMERICA
5	RJA	4/24/14	UPDATE TO CURRENT EDITION OF THE FBC
4	RJA	6/10/12	UPDATE TO 2010 FBC
3	TH	1/10/12	EXTRUSION AND PANEL NOTE CHANGES
REV.	BY	DATE	CHANGE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/32 .XX ± .01 ± 1/2 XXX ± .005			CONTRACT NO.	
MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr			APPROVALS	DATE
FINISH			ENGINEERING MS	11/11/02
DO NOT SCALE DRAWING			PROJ MGMT	
			PRODUCTION	
SIZE B	CAGE CODE	DWG NO. MPCA0002	REV 8	
SCALE SHOWN		SHEET 11 OF 11		

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SAF METAL FABRICATION

MITSUBISHI CHEMICAL AMERICA
ALPOLIC DIVISION

ALPOLIC and ALPOLIC/fr
COMPOSITE WALL PANEL SYSTEMS