

GENERAL NOTES:

THESE ALUCOBOND COMPOSITE PANELS SHALL BE USED FOR WALL, SOFFIT, FASCIA CONSTRUCTION, OR AS A WALL CLADDING. EACH ACTUAL WALL PROJECT SHALL BE CONSTRUCTED USING THE DETAILS SHOWN ON THESE DRAWINGS AS MINIMUM REQUIRED SPECIFICATIONS. PANELS CAN RUN HORIZONTALLY OR VERTICALLY. STEEL METAL FRAMES MUST BE 90 DEGREES RELATIVE TO THE STIFFENER/RETAINER. OVER CMU OR CONCRETE NO RESTRICTIONS APPLY.

1. THE PRODUCT SHOWN IN THE INSTALLATION DRAWINGS IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE AND IS NOT INTENDED FOR USE WITHIN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2. THE EXTERIOR COLD-FORMED STEEL FRAMING IS TO BE DESIGNED AND SECURED SUCH THAT ALL LOADS ARE TO BE TRANSFERRED TO THE PRIMARY STRUCTURE. THE EXTERIOR COLD-FORMED STEEL FRAMING IS TO BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL AND IS THE RESPONSIBILITY OF THE ARCHITECT AND/OR THE ENGINEER OF RECORD.
3. THE EXTERIOR COLD-FORMED STEEL FRAMING IS TO HAVE THE FOLLOWING MINIMUM REQUIREMENTS:

A. MINIMUM THICKNESS - 0.0451" (18 GAUGE)

B. YIELD STRENGTH - Fy = 33 ksi

C. ULTIMATE TENSILE STRENGTH - Fu = 45 ksi

D. MAXIMUM SPACING - 16" O.C.
4. SHEATHING TO BE 5/8" MINIMUM THICKNESS AND SECURED TO THE FRAMING PROPERLY SUCH THAT ALL EXTERNALLY APPLIED LOADS ARE TRANSFERRED TO THE COLD-FORMED STEEL FRAMING.
5. ALUMINUM COMPOSITE MATERIAL IS TO BE 4mm IN THICKNESS. REFERENCE FIGURE A FOR ADDITIONAL DETAILS.
6. THE MAXIMUM PANEL WIDTH IS NOT TO EXCEED 60".
7. SHIM AS REQUIRED AT EACH SUBSTRATE ATTACHMENT FASTENER WITH LOAD BEARING SHIM. WHERE THERE IS A GAP THAT EXCEEDS 0.063" (1/16") A SHIM IS REQUIRED.
8. THE SUBSTRATE ATTACHMENT FASTENER IS TO BE A #12 DIAMETER SELF-DRILLING FASTENER WITH LENGTH SUCH THAT 3 PITCHES OF THE THREADS PENETRATES BEYOND THE COLD-FORMED STEEL FRAMING MEMBERS. SELF-DRILLING FASTENERS ARE NOT TO EXCEED A SPACING OF 16" ON CENTER. REFERENCE THE INSTALLATION DRAWINGS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
9. THE PANEL FACE ATTACHMENT FASTENER IS TO BE A #8 DIAMETER SELF-DRILLING FASTENER WITH LENGTH SUCH THAT 3 PITCHES OF THREAD PENETRATES BEYOND THE PERIMETER ALUMINUM PANEL FRAME. THE PANEL FACE FASTENERS ARE NOT TO EXCEED A SPACING OF 16" ON CENTER. REFERENCE THE INSTALLATION DRAWINGS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
10. ALL FASTENERS ARE TO BE CORROSION RESISTANT.

- A - METAL SKIN

- THICKNESS = 0.5 mm (0.020")

- MINIMUM MECHANICAL PROPERTIES

TENSILE YIELD STRENGTH - Fy = 17 ksi

ULTIMATE TENSILE STRENGTH - Fu = 20 ksi
- B - TIE LAYER BETWEEN SKIN AND CORE
- C - CORE POLYMERIC COMPOUND (FR - FIRE RETARDANT)
- D - FINISH - PAINT FINISH OR NATURAL METAL SURFACE

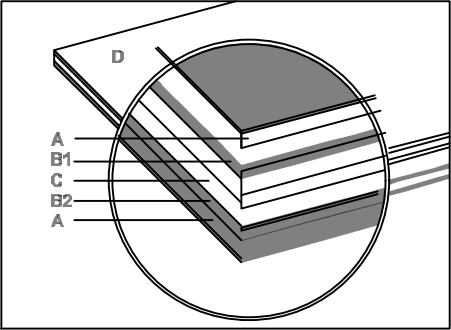


FIGURE A

DESIGN PRESSURE RATING	IMPACT RATING
+40 PSF / -50 PSF	NOT FOR USE IN THE HVHZ

THE DESIGN WIND PRESSURES ABOVE ARE FOR ALLOWABLE STRESS DESIGN AS DEFINED IN ASCE 7. FOR LOAD AND RESISTANCE FACTOR DESIGN APPLICATIONS, THE WIND LOADING PRESENTED MUST BE DIVIDED BY 0.6.

PRODUCT MANUFACTURER:

3A COMPOSITES

TWO HARBOUR PLACE

721 JETTON STREET, SUITE 325

DAVIDSON, NC 28036

PRODUCT NAME:

ALUCOBOND PLUS METAL COMPOSITE MATERIAL

PANEL SYSTEM

SCALE: FULL

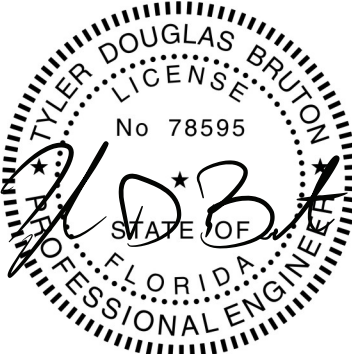
DATE: 01/30/2024

SHEET NUMBER: 1 OF 6

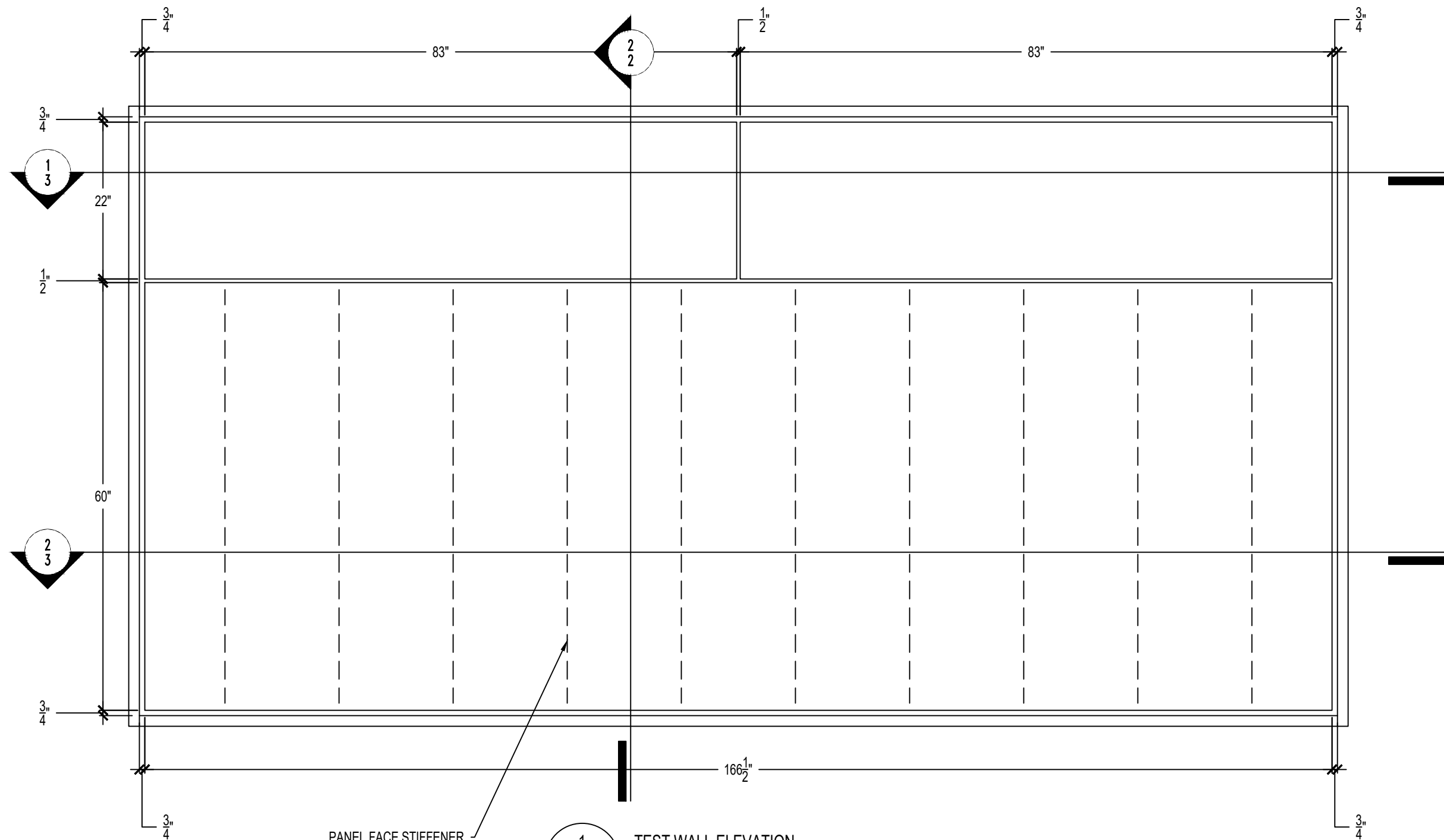
CLADDTECH
ENGINEERING

FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32444
ACWORTH, GA. 30101
PHONE: (770) 656-9923

2024.05.03 11:39:23-04'00'



TYLER DOUGLAS BRUTON, PE
FLORIDA PE LICENSE NO. 78595



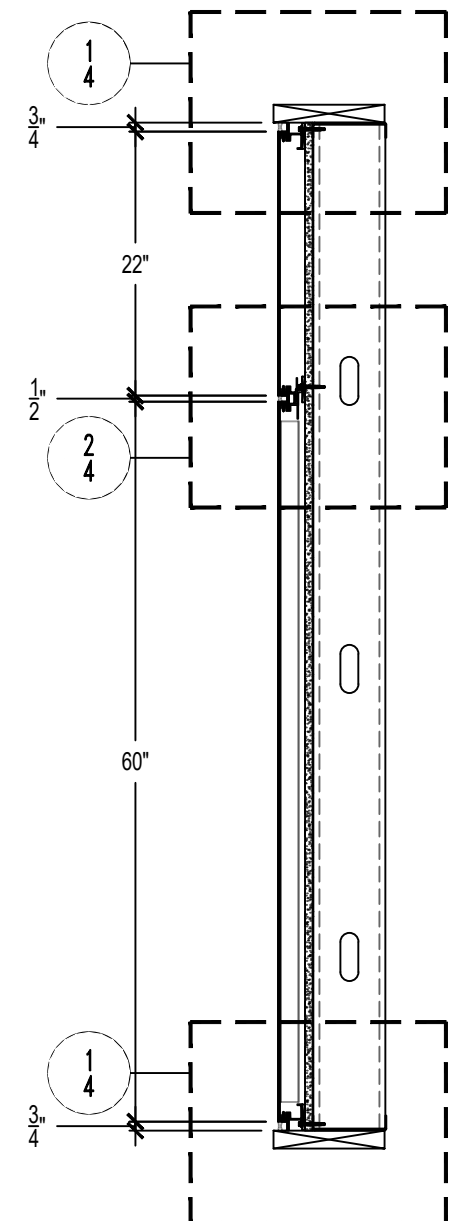
PANEL FACE STIFFENER
REFER TO TABLE 1 FOR MAXIMUM
SPACING GUIDELINES

1 TEST WALL ELEVATION
2 SCALE: 3/4" = 1'-0"

TABLE 1 - PANEL FACE STIFFENER REQUIRMENTS

		PANEL WIDTHS			
		MAXIMUM UNSTIFFENED WIDTH (IN.)	36 IN.	48 IN.	60 IN.
DESIGN PRESSURE	30 PSF	26	35	35	23
	40 PSF	24	32	26	18
	50 PSF	22	30	21	16

THE DESIGN WIND PRESSURES ABOVE ARE FOR ALLOWABLE STRESS DESIGN AS DEFINED IN ASCE 7. FOR LOAD AND RESISTANCE FACTOR DESIGN APPLICATIONS, THE WIND LOADING PRESENTED MUST BE DIVIDED BY 0.6.



2 VERTICAL SECTION #1
2 SCALE: 3/4" = 1'-0"

PRODUCT MANUFACTURER: 3A COMPOSITES
TWO HARBOUR PLACE
721 JETTON STREET, SUITE 325
DAVIDSON, NC 28036

PRODUCT NAME: ALUCOBOND PLUS METAL COMPOSITE MATERIAL
PANEL SYSTEM

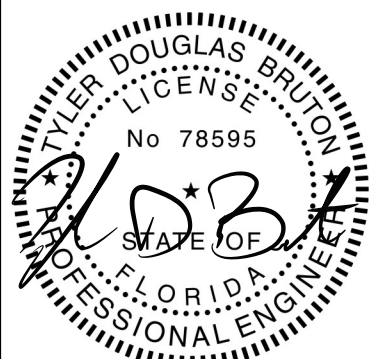
SCALE: 3/4" = 1'-0"

DATE: 01/30/2024

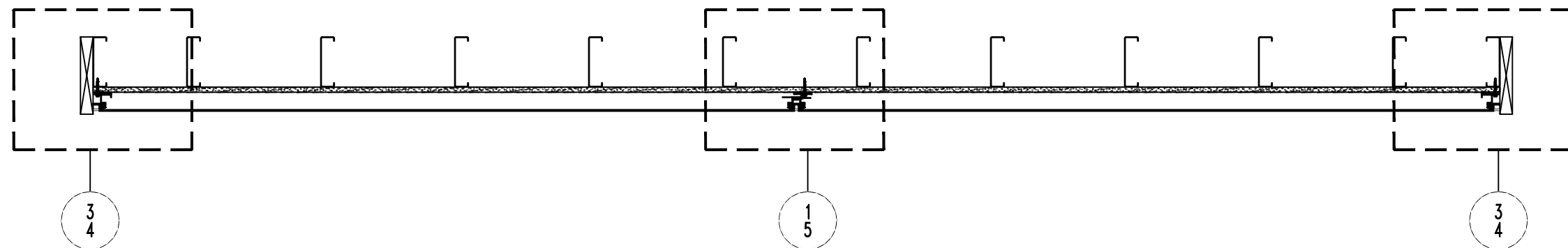
SHEET NUMBER: 2 OF 6

CLADDTECH
ENGINEERING

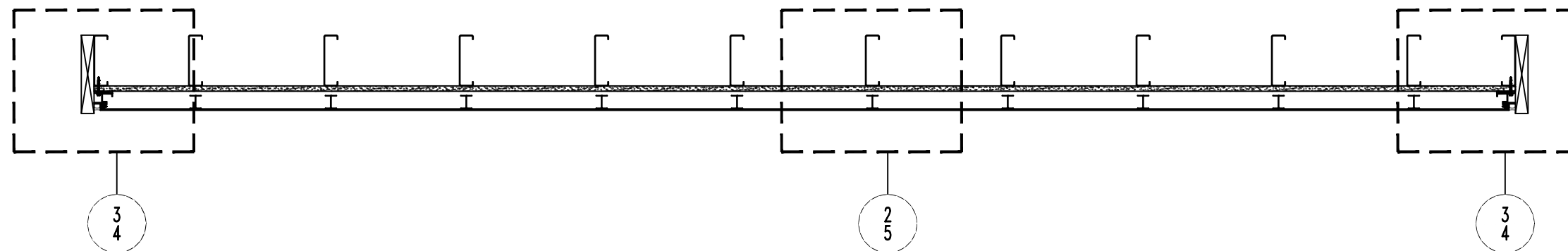
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32444
ACWORTH, GA. 30101
PHONE: (770) 656-9923



TYLER DOUGLAS BRUTON, PE
FLORIDA PE LICENSE NO. 78595

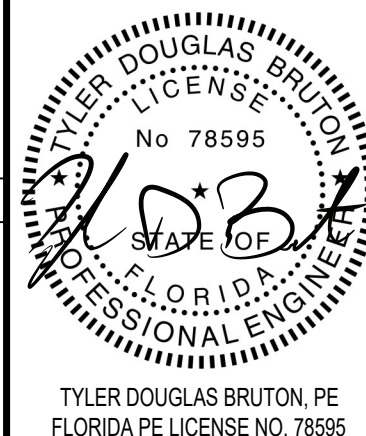


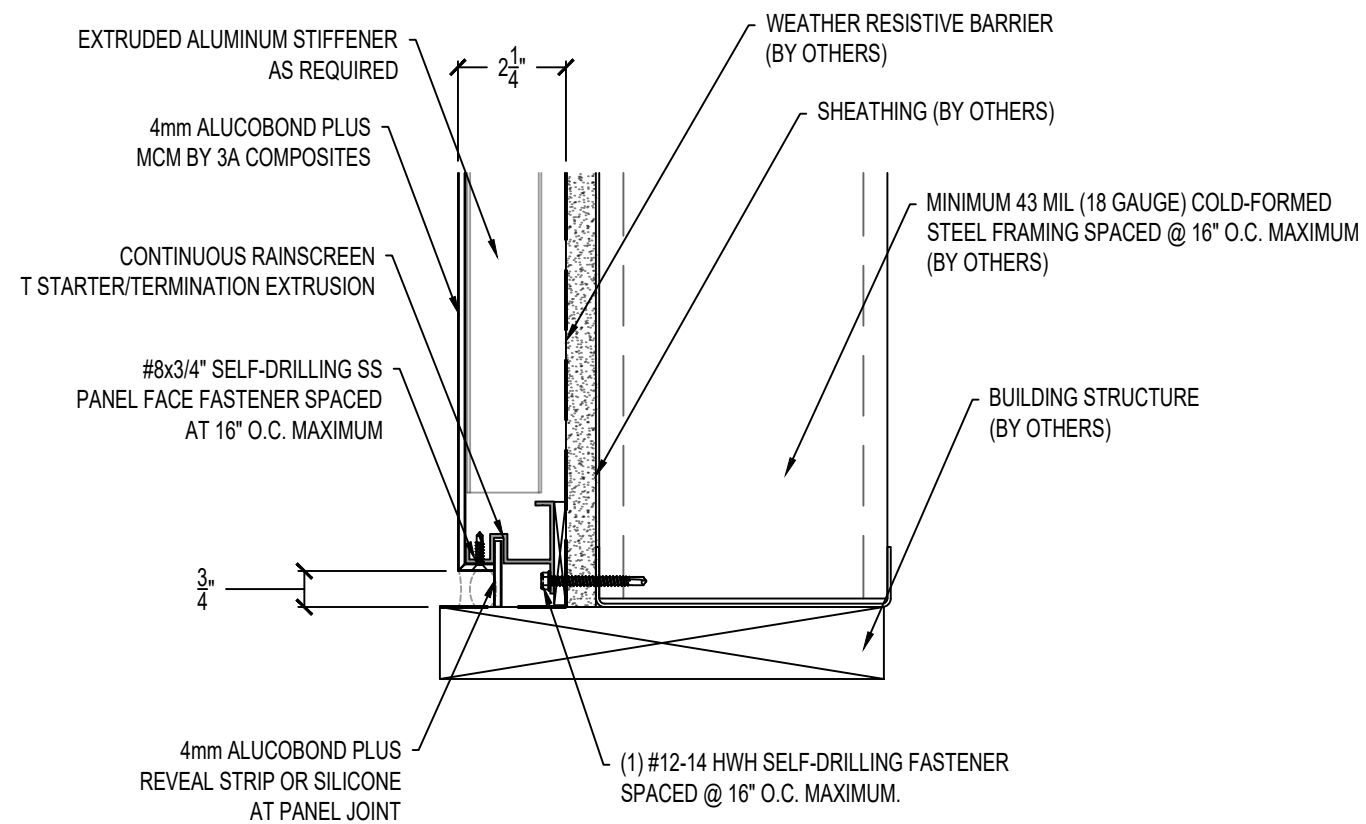
1 HORIZONTAL SECTION #1
3 SCALE: 3/4" = 1'-0"



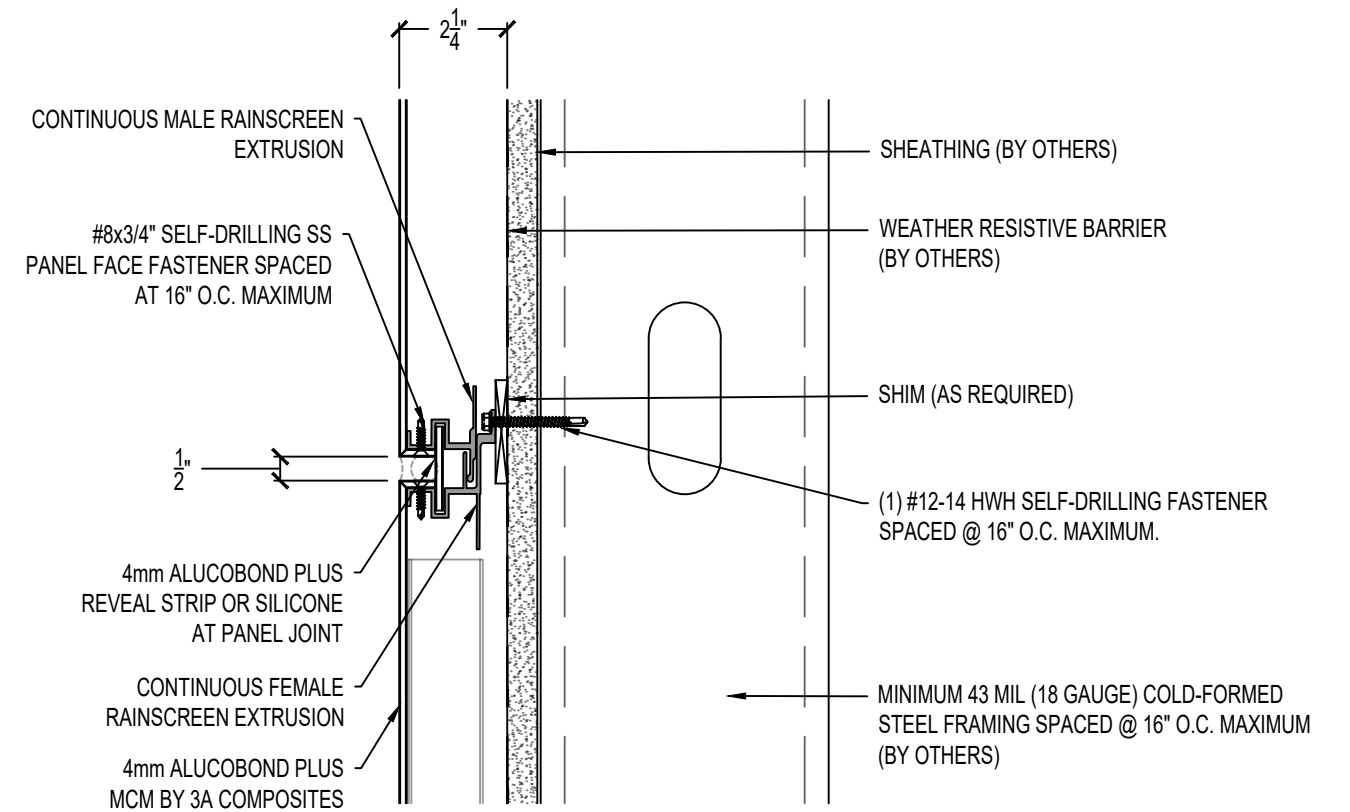
2 HORIZONTAL SECTION #2
3 SCALE: 3/4" = 1'-0"

PRODUCT MANUFACTURER:	3A COMPOSITES TWO HARBOUR PLACE 721 JETTON STREET, SUITE 325 DAVIDSON, NC 28036	
PRODUCT NAME:	ALUCOBOND PLUS METAL COMPOSITE MATERIAL PANEL SYSTEM	
SCALE: 3/4" = 1'-0"	DATE: 01/30/2024	SHEET NUMBER: 3 OF 6
C CLADDTECH ENGINEERING FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32444 ACWORTH, GA. 30101 PHONE: (770) 656-9923		

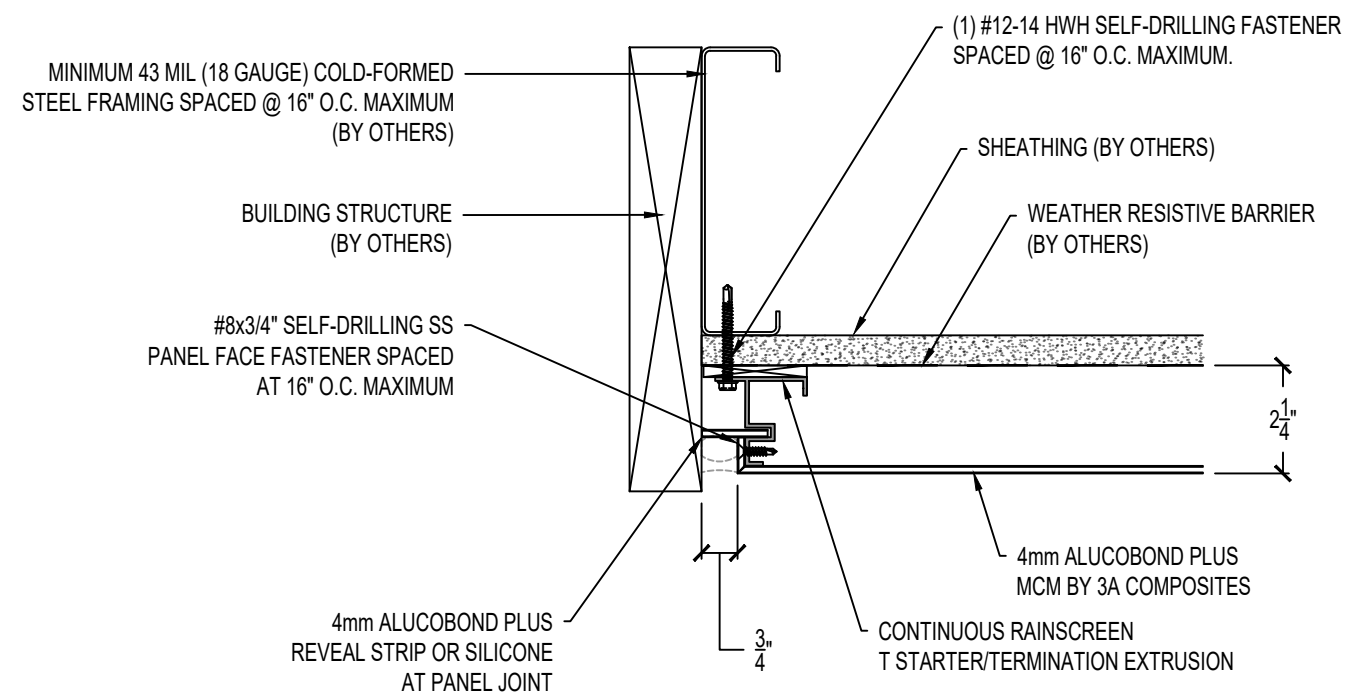




1 CONNECTION DETAIL #1
4 SCALE: 3" = 1'-0"



2 CONNECTION DETAIL #2
4 SCALE: 3" = 1'-0"



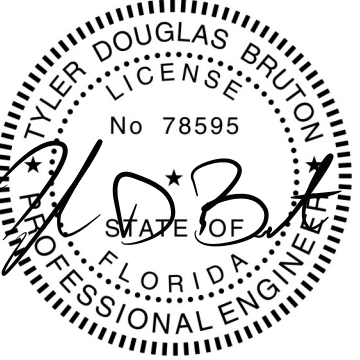
3 CONNECTION DETAIL #3
4 SCALE: 3" = 1'-0"

PRODUCT MANUFACTURER:		3A COMPOSITES TWO HARBOUR PLACE 721 JETTON STREET, SUITE 325 DAVIDSON, NC 28036	
PRODUCT NAME:		ALUCOBOND PLUS METAL COMPOSITE MATERIAL PANEL SYSTEM	
SCALE: 3" = 1'-0"	DATE: 01/30/2024	SHEET NUMBER: 4 OF 6	

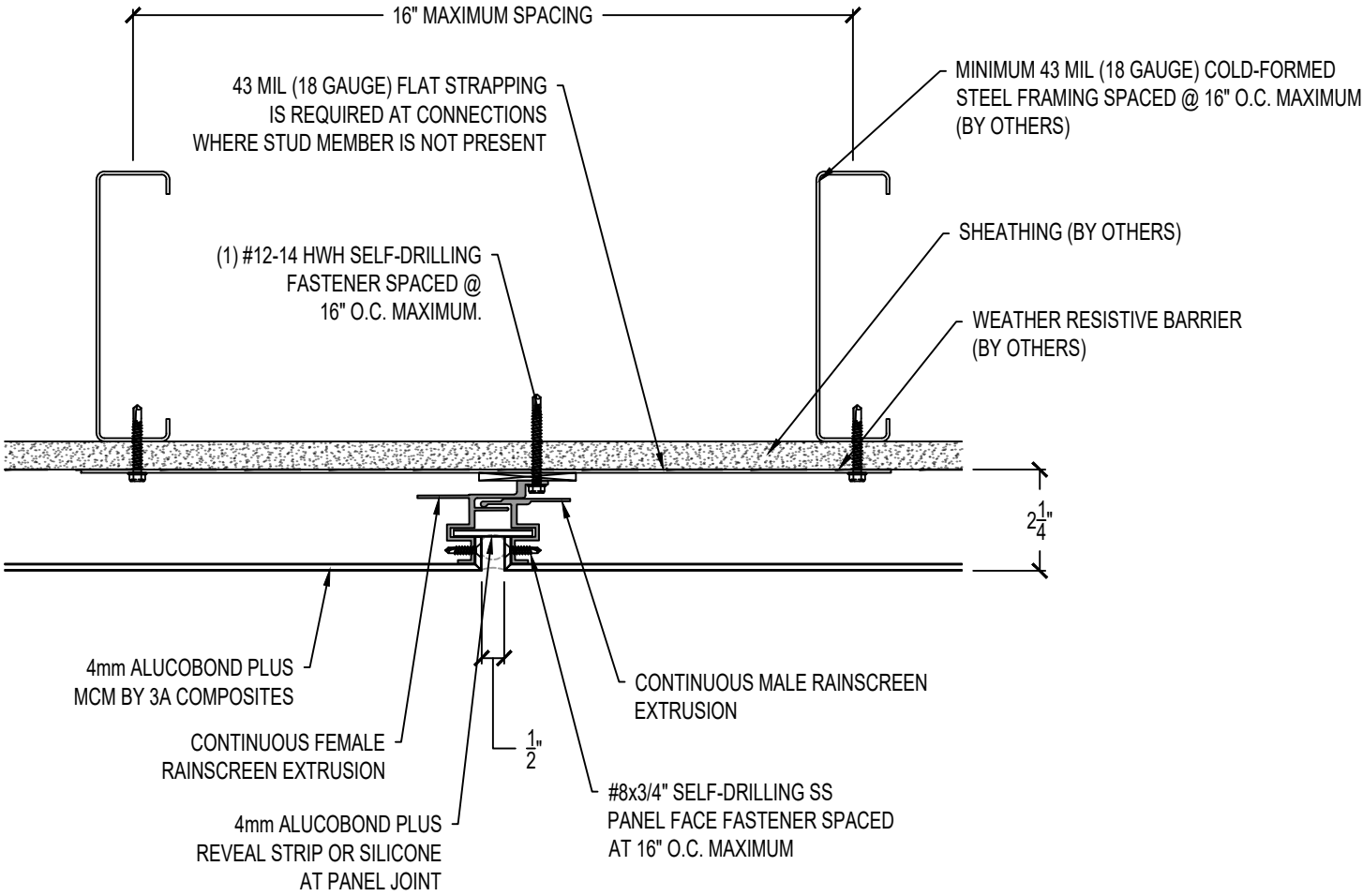


**CLADDTECH
ENGINEERING**

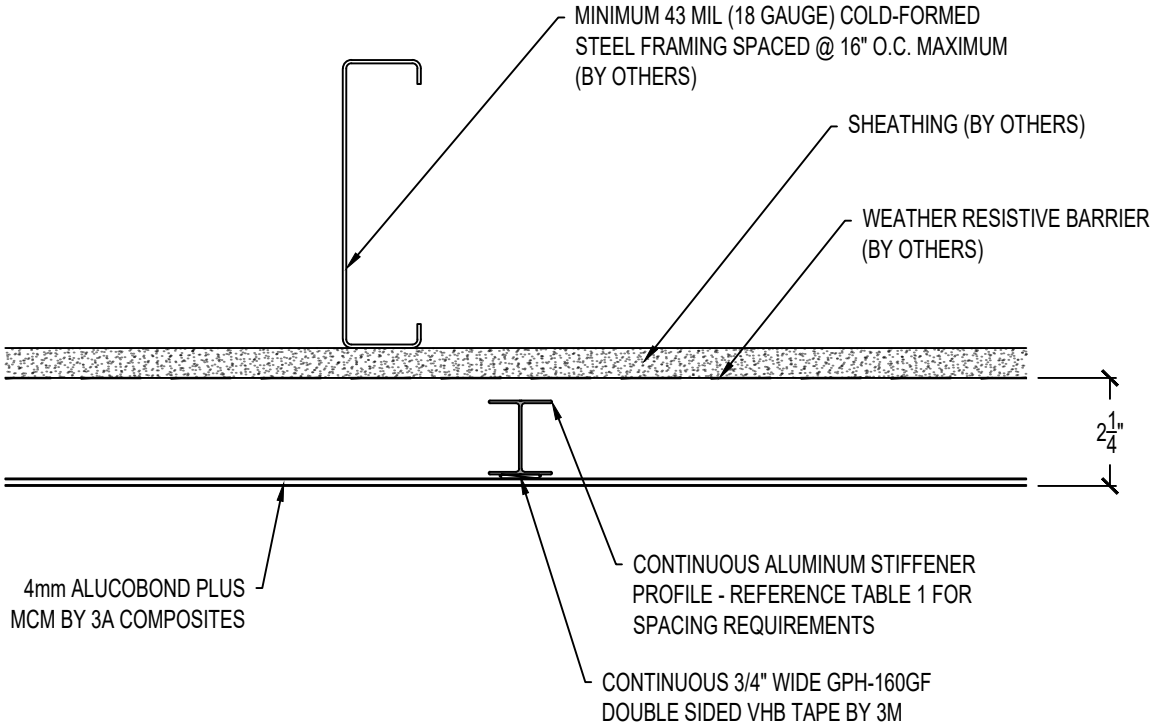
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32444
ACWORTH, GA. 30101
PHONE: (770) 656-9923



TYLER DOUGLAS BRUTON, PE
FLORIDA PE LICENSE NO. 78595



1 CONNECTION DETAIL #4
5 SCALE: 3" = 1'-0"



2 CONNECTION DETAIL #5
5 SCALE: 3" = 1'-0"

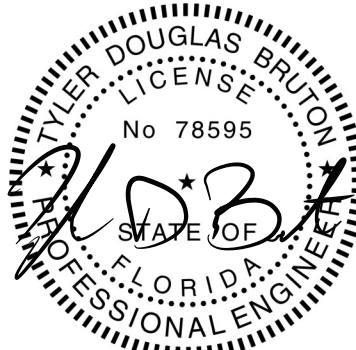
PRODUCT MANUFACTURER: 3A COMPOSITES
TWO HARBOUR PLACE
721 JETTON STREET, SUITE 325
DAVIDSON, NC 28036

PRODUCT NAME: ALUCOBOND PLUS METAL COMPOSITE MATERIAL
PANEL SYSTEM

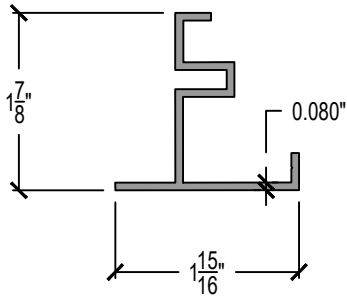
SCALE: 3" = 1'-0" DATE: 01/30/2024 SHEET NUMBER: 5 OF 6

CLADDTECH
ENGINEERING

FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32444
ACWORTH, GA. 30101
PHONE: (770) 656-9923

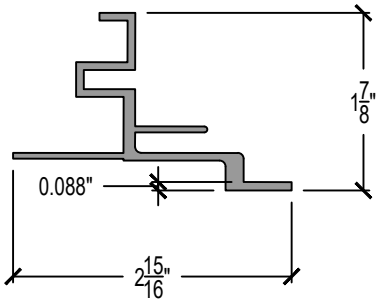


TYLER DOUGLAS BRUTON, PE
FLORIDA PE LICENSE NO. 78595



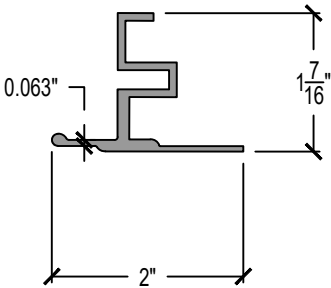
RAINSCREEN T

ALUMINUM 6063-T6
MINIMUM THICKNESS = 0.080"



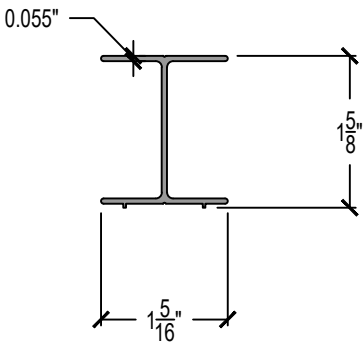
FEMALE RAINSCREEN

ALUMINUM 6063-T6
MINIMUM THICKNESS = 0.088"



MALE RAINSCREEN

ALUMINUM 6063-T6
MINIMUM THICKNESS = 0.063"



STIFFENER

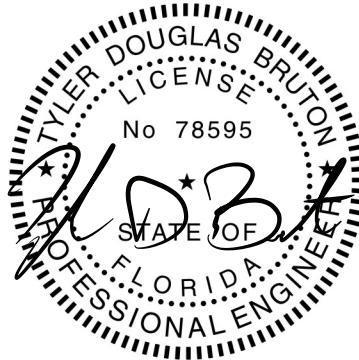
ALUMINUM 6063-T6
MINIMUM THICKNESS = 0.055"

PRODUCT MANUFACTURER:	3A COMPOSITES TWO HARBOUR PLACE 721 JETTON STREET, SUITE 325 DAVIDSON, NC 28036
PRODUCT NAME:	ALUCOBOND PLUS METAL COMPOSITE MATERIAL PANEL SYSTEM

SCALE: 6" = 1'-0"	DATE: 01/30/2024	SHEET NUMBER: 6 OF 6
-------------------	------------------	----------------------



FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32444
ACWORTH, GA. 30101
PHONE: (770) 656-9923



TYLER DOUGLAS BRUTON, PE
FLORIDA PE LICENSE NO. 78595