

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 1/2" 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 36".
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. COLD-FORMED STEEL ATTACHMENT FASTENERS ARE 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.
8. WOOD SUBSTRATE ATTACHMENT FASTENERS ARE TO BE A #10 DIAMETER WOOD SCREWS WITH LENGTH SUCH THAT THE MINIMUM EMBEDMENT DEPTH SPECIFIED ON SHEETS 3 AND 4 ARE MET. WOOD SCREW FASTENERS ARE NOT TO EXCEED A SPACING OF 24" ON CENTER. REFERENCE THE INSTALLATION DRAWINGS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
9. CONCRETE SCREW ANCHOR ATTACHMENT FASTENERS ARE TO BE 1/4" DIA. x 1-3/4" MINIMUM EMBEDMENT DEPTH ULTRACON FASTENERS BY DEWALT. FASTENERS MUST MAINTAIN A 1" MINIMUM EDGE DISTANCE AND 1" MINIMUM SPACING BETWEEN ANCHORS. CONCRETE ANCHORS ARE NOT TO EXCEED A SPACING OF 24" ON CENTER. REFERENCE THE INSTALLATION DRAWINGS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
10. ALL FASTENERS ARE TO BE CORROSION RESISTANT.

- A - ALUMINUM 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

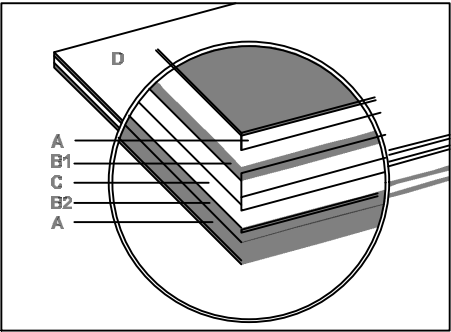


FIGURE A

DESIGN PRESSURE RATING	IMPACT RATING
+60 PSF / -60 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 EASYFIX PANEL SYSTEM

SCALE: FULL

DATE: 01/30/2024

SHEET NUMBER: 1 OF 7

C

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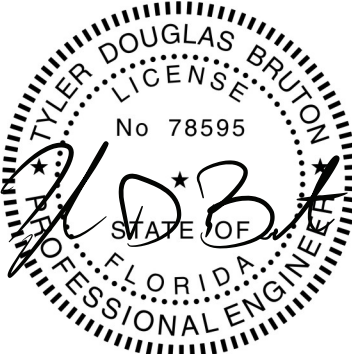
ENGINEERING

FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32444

ACWORTH, GA. 30101

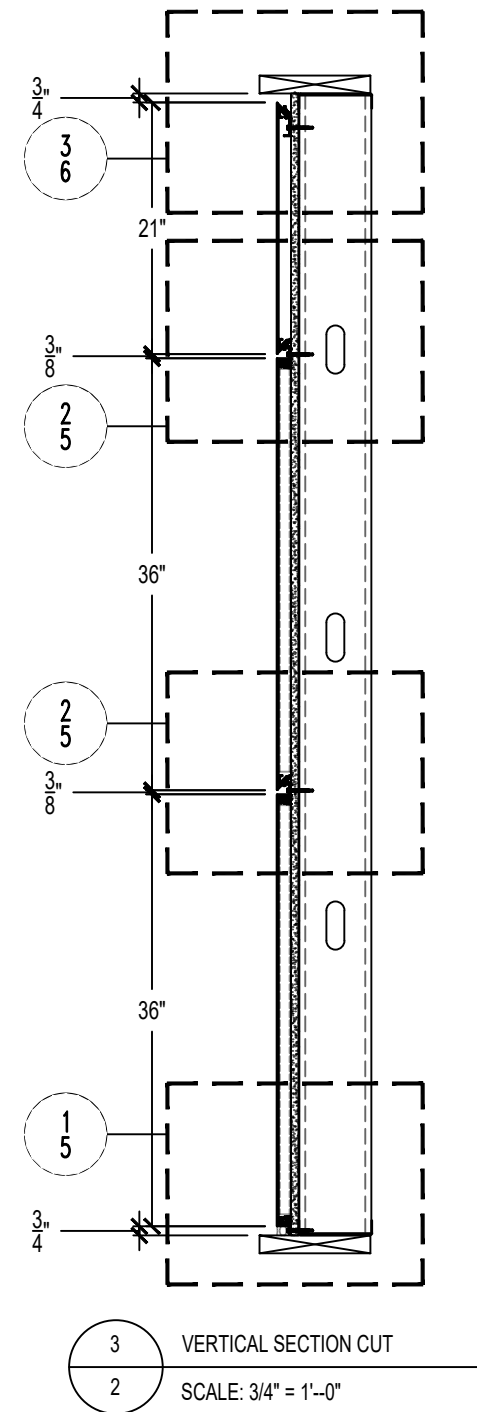
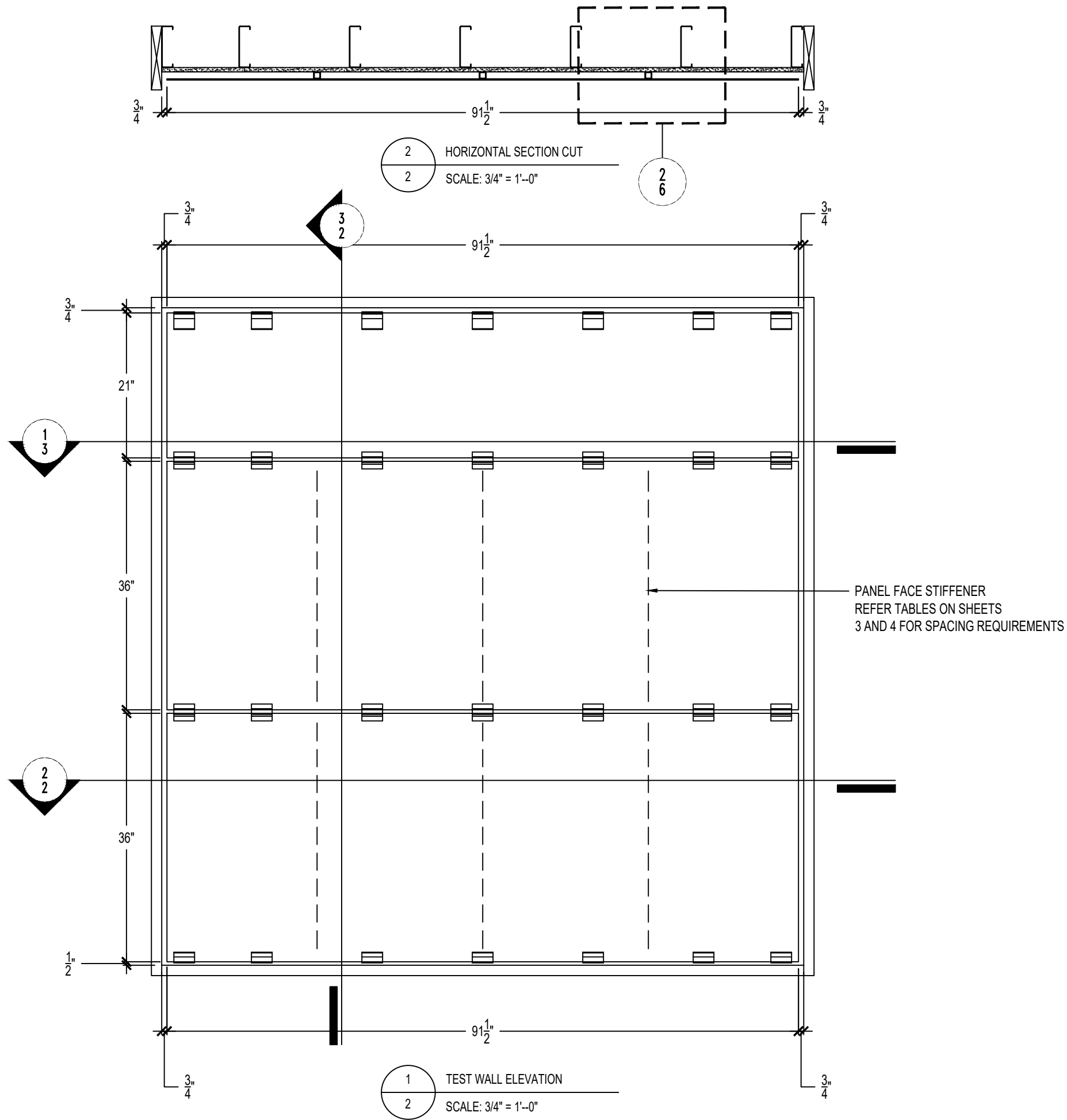
PHONE: (770) 656-9923

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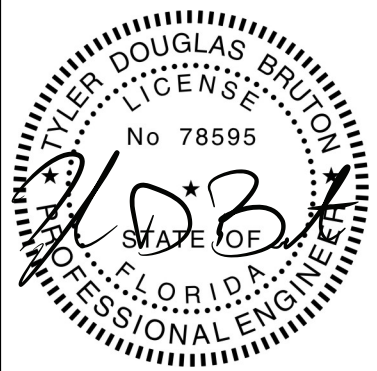
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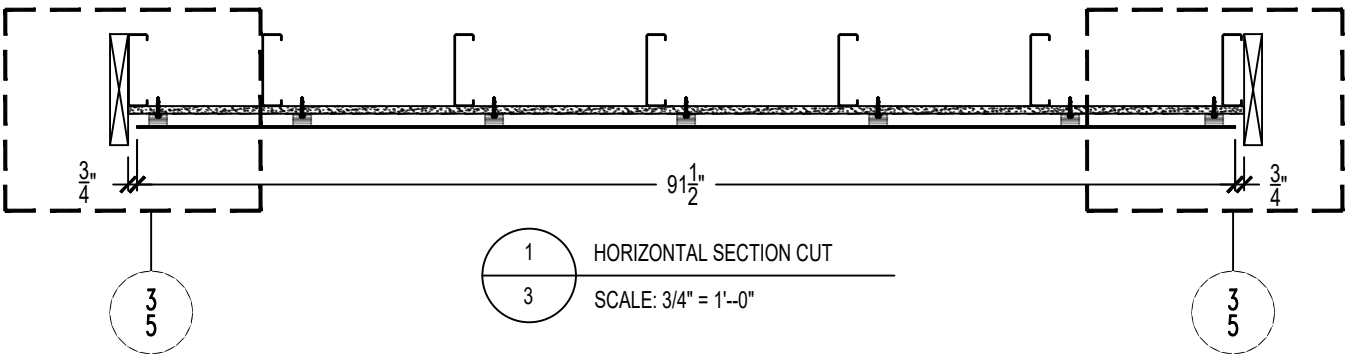
PRODUCT MANUFACTURER:	3A COMPOSITES TWO HARBOUR PLACE 721 JETTON STREET, SUITE 325 DAVIDSON, NC 28036	
PRODUCT NAME:	ALUCOBOND EASYFIX PANEL SYSTEM	
SCALE: 3/4" = 1'-0"	DATE: 01/30/2024	SHEET NUMBER: 2 OF 7



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20 PSF						
Panel Widths	Up to 17"		17+" up to 27"		27+" up to 36"	
Stiffener Requirements	Not Required		Not Required		Required @ 24" O.C.	
Substrate Fastener Requirements	Single Fastener	Double Fastener	Single Fastener	Double Fastener	Single Fastener	Double Fastener
7/16" OSB	24	24	16	24	12	24
1/2" Plywood	24	24	18	24	14	24
1/2" LP FlameBlock	24	24	18	24	14	24
7/8" OSB	24	24	24	24	24	24
18 GA Metal Framing	16	16	16	16	16	16
2 x Wood Framing	24	24	24	24	24	24
Concrete (Fc = 3000 psi)	24	24	24	24	24	24
Stiffener shape is to be a minimum 1"x1"X0.095" Extruded Aluminum (6063-T6). Attach stiffener to back side of panel using 1/2" Wide 3M VHB Tape (GPH-160GF)						
#10 Wood screw x length to provide full penetration of substrate is required for panel attachment						
#12 Dia. Self-Drilling Fastener is required for panel attachment						
#10 Wood screw x 1-1/2" minimum embedment depth is required for panel attachment						
1/4" Dia. x 1-3/4" Embedment Depth Ultracon (by DeWalt) concrete screw anchor is required for panel attachment						

30 PSF						
Panel Widths	Up to 17"		17+" up to 27"		27+" up to 36"	
Stiffener Requirements	Not Required		Not Required		Required @ 24" O.C.	
Substrate Fastener Requirements	Single Fastener	Double Fastener	Single Fastener	Double Fastener	Single Fastener	Double Fastener
7/16" OSB	17	24	11	22	8	16
1/2" Plywood	20	24	12	24	9	18
1/2" LP FlameBlock	20	24	12	24	9	18
7/8" OSB	24	24	22	24	16	24
18 GA Metal Framing	16	16	16	16	16	16
2 x Wood Framing	24	24	24	24	24	24
Concrete (Fc = 3000 psi)	24	24	24	24	24	24
Stiffener shape is to be a minimum 1"x1"X0.095" Extruded Aluminum (6063-T6). Attach stiffener to back side of panel using 1/2" Wide 3M VHB Tape (GPH-160GF)						
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1/4" Dia. x 1-3/4" Embedment Depth Ultracon (by DeWalt) concrete screw anchor is required for panel attachment						

40 PSF						
Panel Widths	Up to 17"		17+" up to 27"		27+" up to 36"	
Stiffener Requirements	Not Required		Required @ 24" O.C.		Required @ 24" O.C.	
Substrate Fastener Requirements	Single Fastener	Double Fastener	Single Fastener	Double Fastener	Single Fastener	Double Fastener
7/16" OSB	13	24	8	16	6	12
1/2" Plywood	15	24	9	18	7	14
1/2" LP FlameBlock	15	24	9	18	7	14
7/8" OSB	24	24	16	24	12	24
18 GA Metal Framing	16	16	16	16	16	16
2 x Wood Framing	24	24	24	24	16	24
Concrete (Fc = 3000 psi)	24	24	24	24	24	24
Stiffener shape is to be a minimum 1"x1"X0.095" Extruded Aluminum (6063-T6). Attach stiffener to back side of panel using 1/2" Wide 3M VHB Tape (GPH-160GF)						
#10 Wood screw x length to provide full penetration of substrate is required for panel attachment						
#12 Dia. Self-Drilling Fastener is required for panel attachment						
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1/4" Dia. x 1-3/4" Embedment Depth Ultracon (by DeWalt) concrete screw anchor is required for panel attachment						

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

PRODUCT NAME: ALUCOBOND EASYFIX PANEL SYSTEM

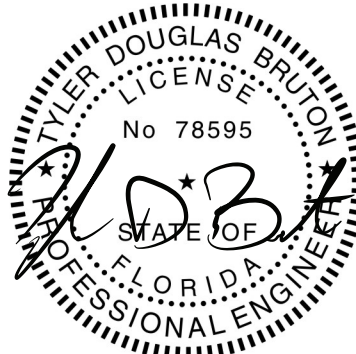
SCALE: 3/4" = 1'-0"

DATE: 01/30/2024

SHEET NUMBER: 3 OF 7

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50 PSF						
Panel Widths	Up to 17"		17+" up to 27"		27+" up to 36"	
Stiffener Requirements	Not Required		Required @ 24" O.C.		Required @ 24" O.C.	
Substrate Fastener Requirements	Single Fastener	Double Fastener	Single Fastener	Double Fastener	Single Fastener	Double Fastener
7/16" OSB	10	21	6	12	4	9
1/2" Plywood	12	24	7	15	5	11
1/2" LP FlameBlock	12	24	7	15	5	11
7/8" OSB	21	24	13	24	9	19
18 GA Metal Framing	16	16		16		16
2 x Wood Framing	16	24	16	24	16	24
Concrete (Fc = 3000 psi)	24	24	24	24	24	24
Stiffener shape is to be a minimum 1"x1"X0.095" Extruded Aluminum (6063-T6). Attach stiffener to back side of panel using 1/2" Wide 3M VHB Tape (GPH-160GF)						
#10 Wood screw x length to provide full penetration of substrate is required for panel attachment						
#12 Dia. Self-Drilling Fastener is required for panel attachment						
#10 Wood screw x 1-1/2" minimum embedment depth is required for panel attachment						
1/4" Dia. x 1-3/4" Embedment Depth Ultracon (by DeWalt) concrete screw anchor is required for panel attachment						

60 PSF						
Panel Widths	Up to 17"		17+" up to 27"		27+" up to 36"	
Stiffener Requirements	Not Required		Required @ 24" O.C.		Required @ 24" O.C.	
Substrate Fastener Requirements	Single Fastener	Double Fastener	Single Fastener	Double Fastener	Single Fastener	Double Fastener
7/16" OSB	8	17	5	11	4	8
1/2" Plywood	10	20	6	12	4	9
1/2" LP FlameBlock	10	20	6	12	4	9
7/8" OSB	17	24	11	22	8	16
18 GA Metal Framing	16	16		16		16
2 x Wood Framing	16	24	16	24		24
Concrete (Fc = 3000 psi)	24	24	24	24	24	24
Stiffener shape is to be a minimum 1"x1"X0.095" Extruded Aluminum (6063-T6). Attach stiffener to back side of panel using 1/2" Wide 3M VHB Tape (GPH-160GF)						
#10 Wood screw x length to provide full penetration of substrate is required for panel attachment						
#12 Dia. Self-Drilling Fastener is required for panel attachment						
#10 Wood screw x 1-1/2" minimum embedment depth is required for panel attachment						
1/4" Dia. x 1-3/4" Embedment Depth Ultracon (by DeWalt) concrete screw anchor is required for panel attachment						

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PRODUCT NAME:

ALUCOBOND EASYFIX PANEL SYSTEM

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

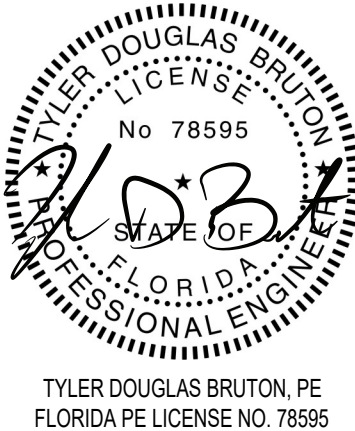
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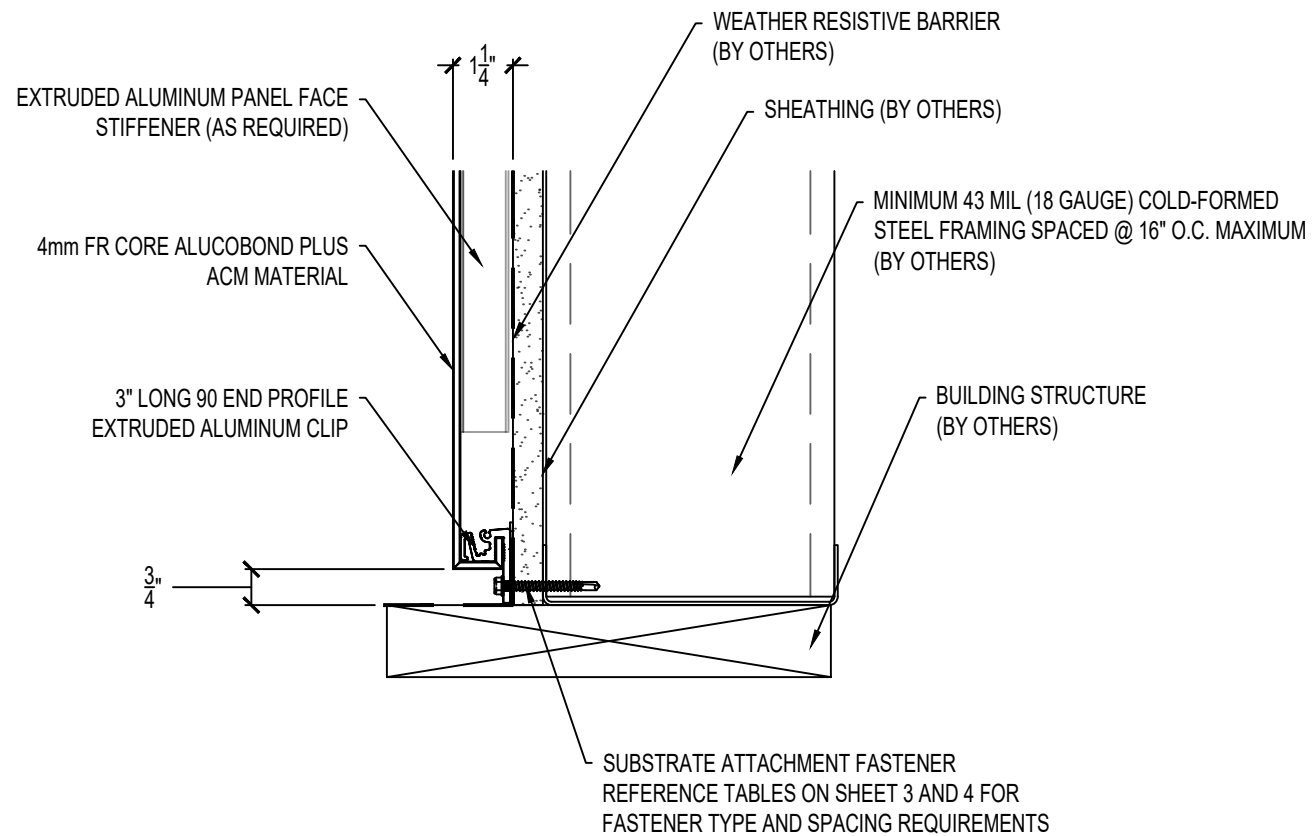
SHEET NUMBER: 4 OF 7

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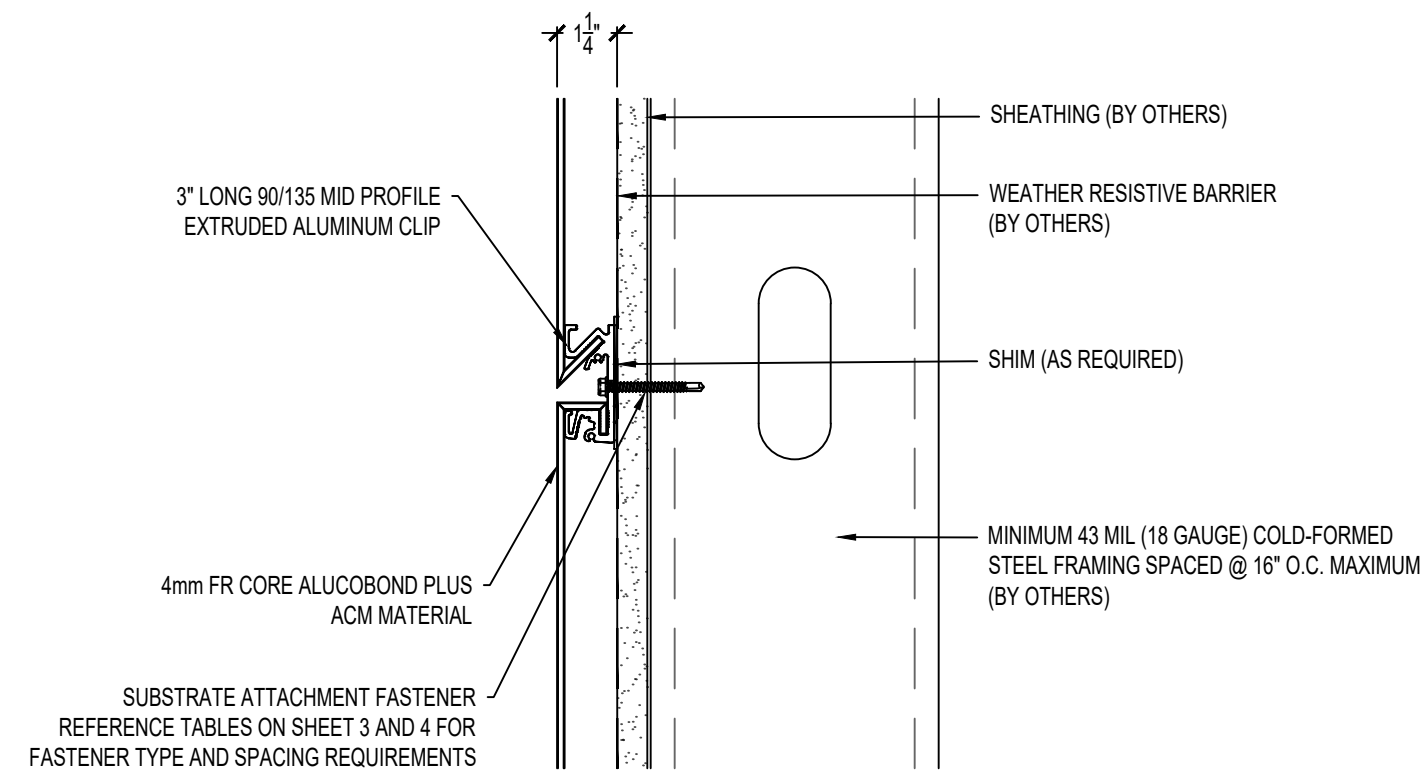
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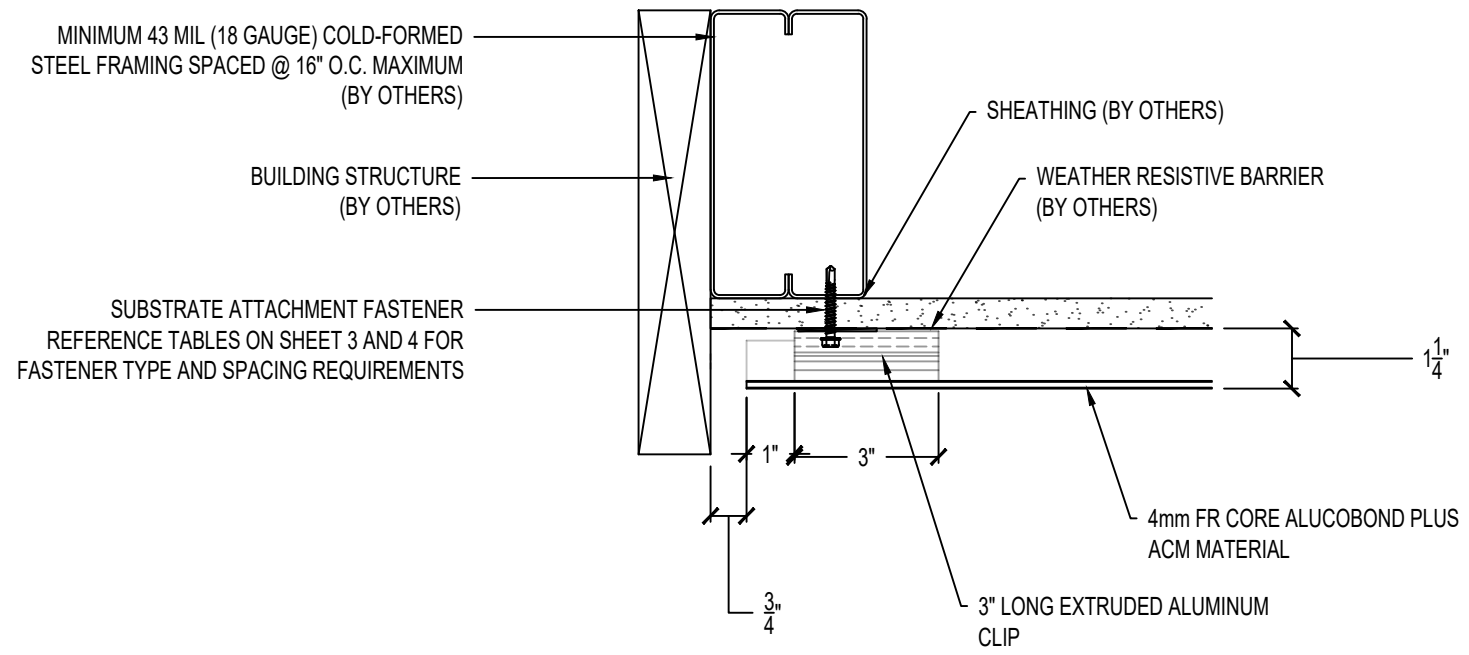




1 CONNECTION DETAIL #1
5 SCALE: 3" = 1'-0"



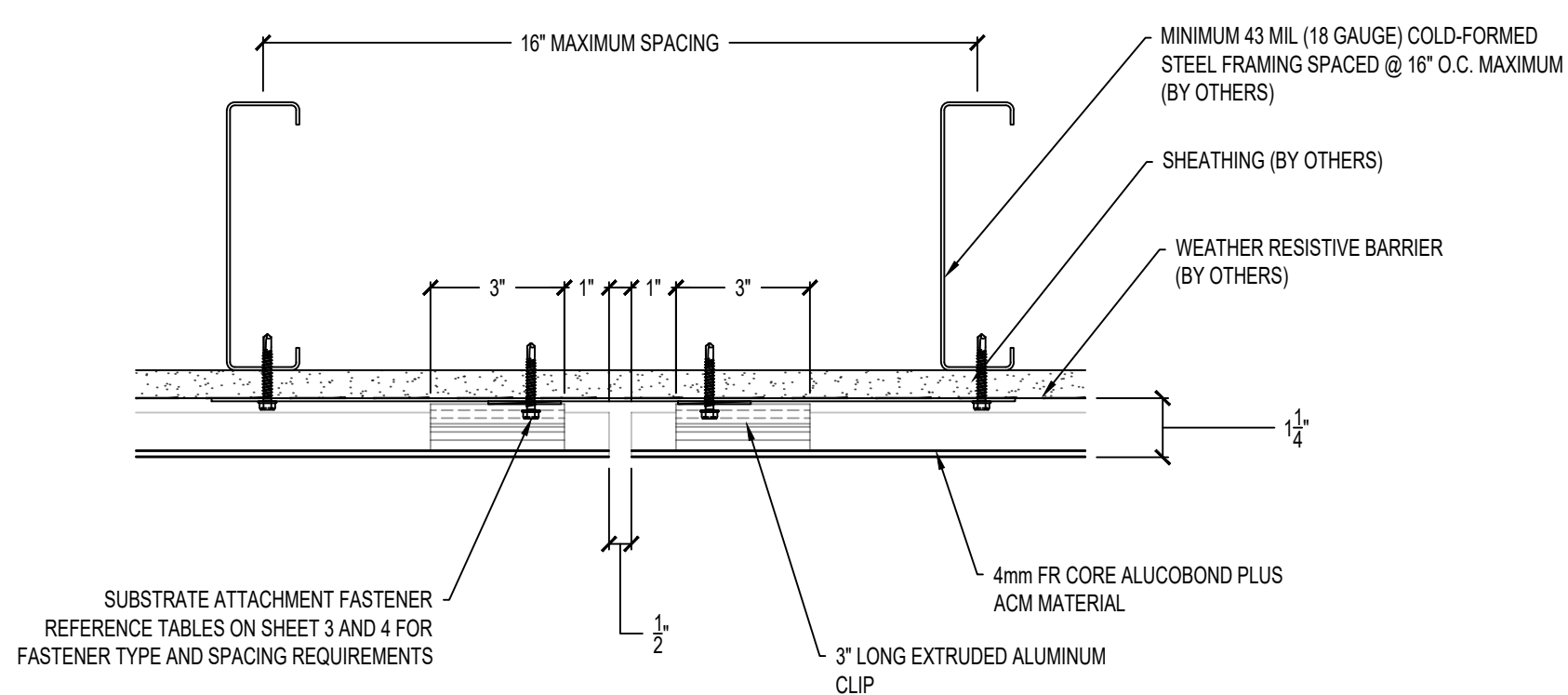
2 CONNECTION DETAIL #2
5 SCALE: 3" = 1'-0"



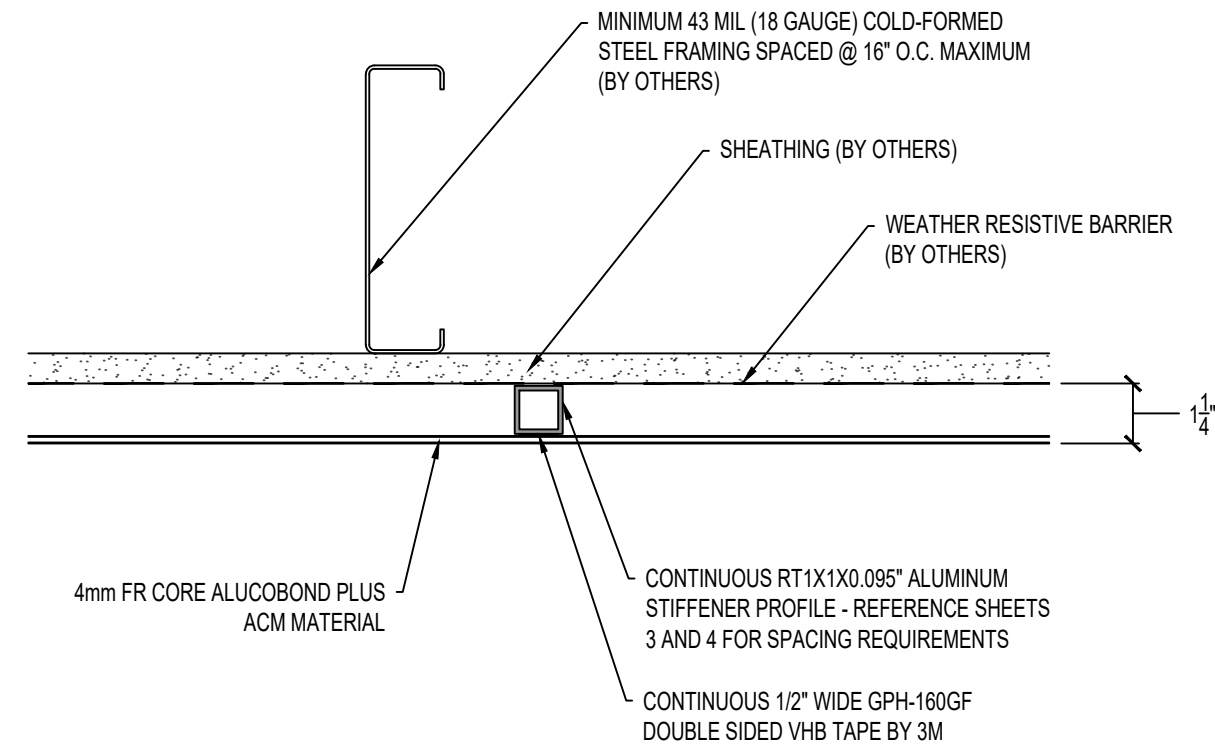
3 CONNECTION DETAIL #3
5 SCALE: 3" = 1'-0"

PRODUCT MANUFACTURER:		3A COMPOSITES TWO HARBOUR PLACE 721 JETTON STREET, SUITE 325 DAVIDSON, NC 28036	
PRODUCT NAME:		ALUCOBOND EASYFIX PANEL SYSTEM	
SCALE: 3" = 1'-0"	DATE: 01/30/2024	SHEET NUMBER: 5 OF 7	
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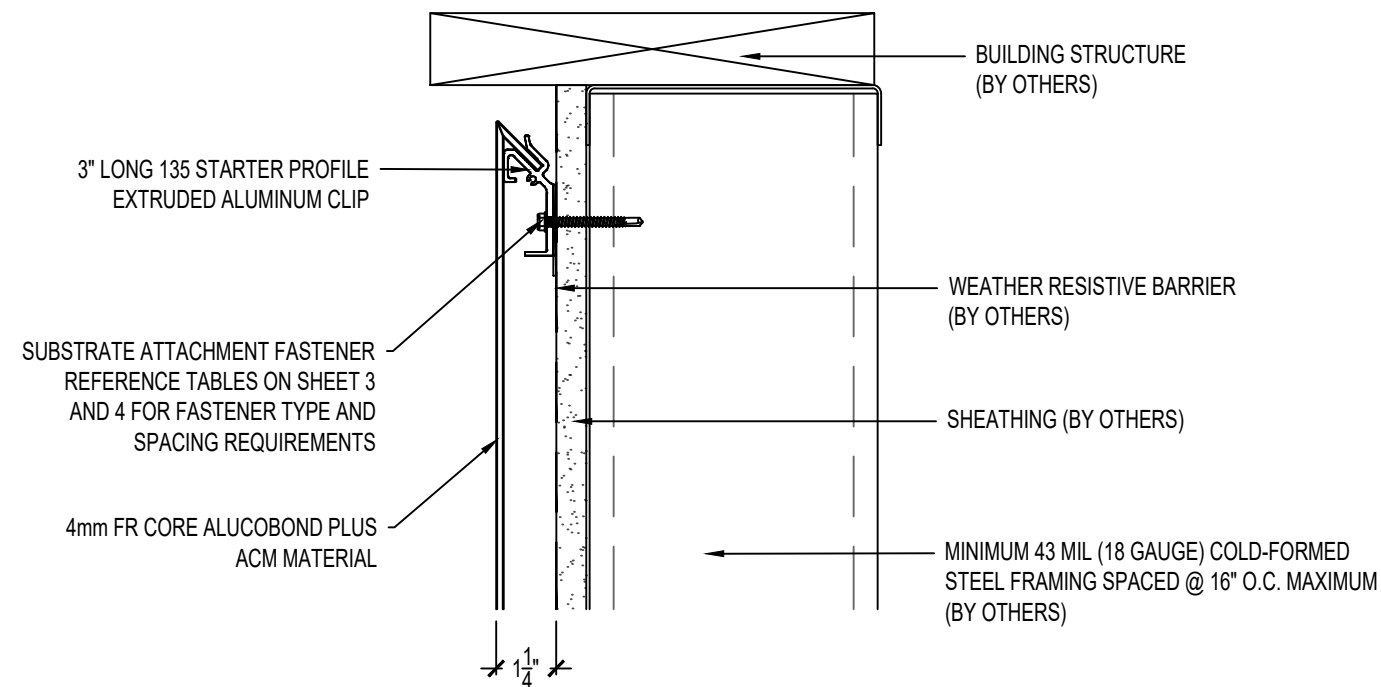
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1 CONNECTION DETAIL #4
6 SCALE: 3" = 1'-0"

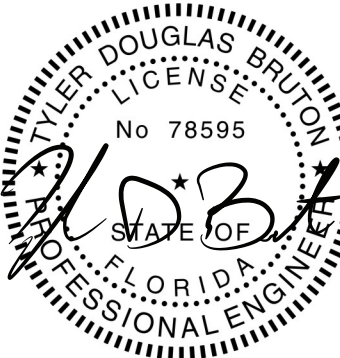


2 CONNECTION DETAIL #5
6 SCALE: 3" = 1'-0"

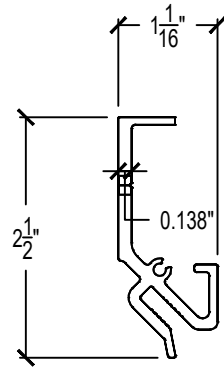


3 CONNECTION DETAIL #6
6 SCALE: 3" = 1'-0"

PRODUCT MANUFACTURER:		3A COMPOSITES TWO HARBOUR PLACE 721 JETTON STREET, SUITE 325 DAVIDSON, NC 28036	
PRODUCT NAME:		ALUCOBOND EASYFIX PANEL SYSTEM	
SCALE: 3" = 1'-0"		DATE: 01/30/2024	SHEET NUMBER: 6 OF 7
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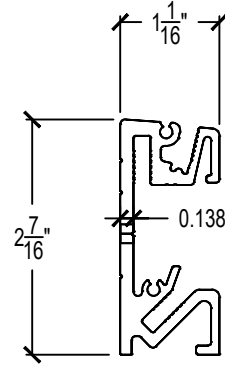


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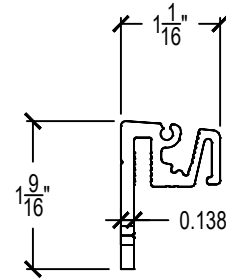
135 STARTER PROFILE

ALUMINUM 6063-T6
MINIMUM THICKNESS = 0.138"
CLIP LENGTH = 3"



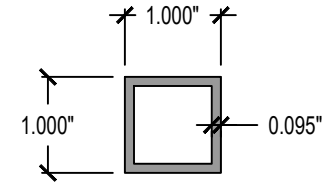
90/135 MID PROFILE

ALUMINUM 6063-T6
MINIMUM THICKNESS = 0.138"
CLIP LENGTH = 3"



90 END PROFILE

ALUMINUM 6063-T6
MINIMUM THICKNESS = 0.138"
CLIP LENGTH = 3"



STIFFENER

ALUMINUM 6063-T6
MINIMUM THICKNESS = 0.095"

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TWO HARBOUR PLACE
721 JETTON STREET, SUITE 325
DAVIDSON, NC 28036

PRODUCT NAME: ALUCOBOND EASYFIX PANEL SYSTEM

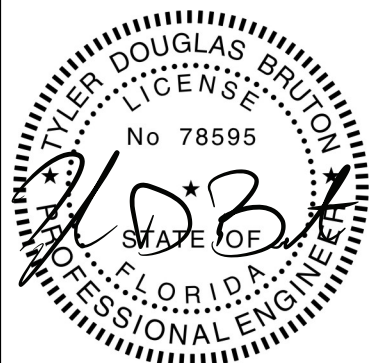
SCALE: 6" = 1'-0"

DATE: 01/30/2024

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