

AMERICAN CONSTRUCTION METALS

"TRIPLE 4" & "QUAD 4" - ALUMINUM "V-GROOVE" SOFFIT

"TRIPLE 4" & "QUAD 4" - ALUMINUM "U-GROOVE" SOFFIT

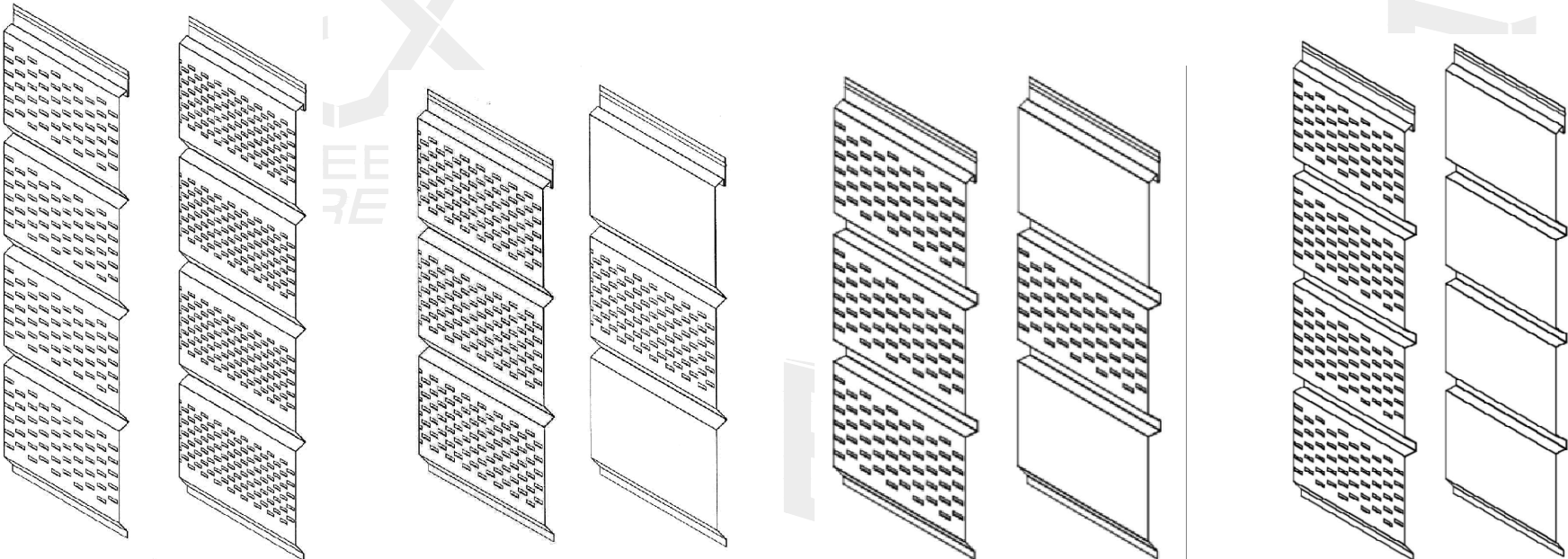
NOT APPROVED FOR IMPACT RATING - APPROVED FOR NON-HVHZ ONLY

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

ALL INSTALLATIONS TO FOLLOW FLORIDA BUILDING / RESIDENTIAL CODE 2023 (8TH ED) INSTALLATION SPECIFICATIONS AS DETAILED IN SECTION R704.2, REGARDING SOFFIT INSTALLATION. FOR INSTALLATIONS REQUIRING CLARIFICATION OR ADDITIONAL REVIEW, CONSULT CERTIFIED, SITE SPECIFIC ENGINEERING OR ENGINEER OF RECORD.



NOTE: AMERICAN CONSTRUCTION METALS (ACM) IS AN APPROVED DEALER OF NORANDEX BRANDED PRODUCTS. THIS DRAWING IS APPROVED FOR PRODUCTS DETAILED HEREIN WITH EITHER ACM OR NORANDEX BRANDING



TRIPLE 4 (T4) (V-GROOVE)
T-4-012 (.0115" THICK)
T-4-014 (.0135" THICK)

QUAD 4 (Q4) (V-GROOVE)
Q-4-012 (.0115" THICK)
Q-4-014 (.0135" THICK)

TRIPLE 4 (T4)
(.017" THICK)

QUAD 4 (Q4)
(.017" THICK)

NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN FLORIDA ONLY. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT ENGINEERINGEXPRESS.COM/QUOTE FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

DESIGN NOTES:

1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023). ALSO APPLICABLE FOR IBC/IRC 2021. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY AND GOVERN.

MAXIMUM ALLOWABLE ASD DESIGN PRESSURES:

UP TO +70 PSF ASD LOAD COMBINATION (UPWARDS / DIRECT LOADING)
UP TO -141 PSF ASD LOAD COMBINATION (DOWNWARDS / SUCTION LOADING)

GRAVITY & UPLIFT LOAD COMBINATION TO CONSIDER ALL CODE-REQUIRED LOADING CONDITIONS INCLUDING BUT NOT LIMITED TO DEAD LOAD, LIVE LOAD, AND SITE-SPECIFIC WIND & SNOW LOADS

2. SITE SPECIFIC ASD DESIGN PRESSURES TO BE CALCULATED SEPARATELY PER CODES AND STANDARDS STATED HEREIN. DESIGN CRITERIA OR SPANS BEYOND WHAT IS STATED HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING. REFER DESIGN TABLES HEREIN FOR ALLOWABLE SOFFIT SPANS.
3. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7 CODES FOR SITE SPECIFIC APPLICATIONS AS APPLICABLE. DESIGN CRITERIA OR SPANS BEYOND STATED HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING.
4. SOFFIT WIND LOADS SHALL BE DESIGNED PER ASCE 7-22, FIGURE 30.7-1, C&C WIND LOADS FOR ROOF OVERHANGS BY A LICENSED DESIGN PROFESSIONAL.
5. FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE ONLY (NON-HVHZ). NO IMPACT RATING IS OFFERED HEREIN.
6. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY 1.5 SAFETY FACTOR.
7. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO EXISTING STRUCTURE

MATERIALS AND CONNECTIONS

8. ALL ALUMINUM HEREIN SHALL BE OF ALLOY AND TEMPER 3014-H19 OR 3105-H14/H29 UNLESS OTHERWISE NOTED.
9. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION IN.C, AND ANY APPLICABLE FEDERAL, STATE AND OR LOCAL CODES.
10. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
11. ANCHOR QUANTITIES INDICATED IN DETAILS ARE FOR GRAPHICAL PURPOSES ONLY. DO NOT SCALE DIAMETER, LENGTH, OR PENETRATION(S). HEAD STYLE(S) ARE FREELY INTERCHANGEABLE.
12. ALL FASTENERS SHALL BE SPACED WITH 2x DIAMETER END DISTANCE AND 2.5xDIAMETER MIN. SPACING TO ADJACENT FASTENERS, UNLESS NOTED OTHERWISE. PROVIDE (5) PITCHES MINIMUM PAST THE THREAD PLANE FOR ALL FASTENERS.
10. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
11. WIND LOAD DURATION FACTOR Cd = 1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.

OTHER NOTES

12. UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.
13. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
14. ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
15. ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
16. SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
17. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

PREPARED BY



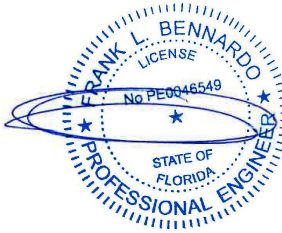
VISIT ECALC.IO/70565

FOR ENGINEER CERTIFIED ORIGINALS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE

VISIT ENGINEERINGEXPRESS.COM/STORE FOR ADDITIONAL PLANS, REPORTS & RESOURCES



FRANK BENNARDO, PE
PE# 0046549 CA# 9885



Digitally signed by
Frank Bennardo
Date: 2024.02.23
17:14:37 -05'00'

FL 46555.1

ENGINEERING
EXPRESS

POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

AMERICAN CONSTRUCTION METALS

6938 N. US HIGHWAY 41
APOLLO BEACH, FL 33572
(813) 671 - 4009

TRIPLE 4 & QUAD 4 ALUMINUM SOFFIT
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#46555.1)

REMARKS	DATE	DRWN	CHKD
INIT ISSUE	2/23/24	MLD	CCB

COPYRIGHT ENGINEERING EXPRESS®

23-70565

SCALE: NTS UNLESS NOTED

1

c:\users\colby\engineering express\production - documents\projects\23-123-70565 florida product approval for fl12019 2023 submittal\work\drawings & cad\23-70565d - florida product approval for fl12019 2023 submittal

NOTE: FREE FLOW AREA IS PER LINEAR FOOT OF
OVERHANG (SPAN "A" ON SHEETS 3, 4 & 5) PER
PANEL (12" TRIPLE 4 PANEL OR 16" QUAD 4 PANEL)

Technical drawing of a 4x8 grid of rectangular holes. The grid is defined by dimensions: .50" between the first two columns, .125" between the second and third columns, and 639" between the first and last rows. The distance between the first and last columns is 1.278", with points A marked at the center of the first and last columns. The drawing includes a large 'X' watermark and the text 'ERING' and 'SS'.

Technical drawing of a rectangular plate with a grid of holes. The plate is 10.00 inches wide and 12.00 inches high. There are 4 rows of 8 holes each. The holes are 0.375 inches wide and 0.625 inches high. The center-to-center spacing between holes is 1.00 inch horizontally and 0.66 inches vertically. The plate has a thickness of 0.33 inches. A section line A-A is indicated on the right side.

Diagram illustrating the dimensions of a wall section:

- Vertical dimension: .98"
- Horizontal dimension: .02"
- Horizontal dimension: 4", 6" OR 8"

1 FASCIA
2 ALUM. DETAIL

Technical drawing of a stepped shaft with the following dimensions:

- Total length: 1.7"
- First step height: .37"
- Second step height: .0155"
- Third step length: .76"

2 "J" CHANNEL
2 ALUM. DETAIL

3 "F" CHANNEL
2 ALUM. DETAIL

Technical drawing of a mechanical part with the following dimensions and labels:

- Overall width: .33"
- Overall height: .312"
- Top left corner: .01"
- Top left corner: 40°
- Top left corner: 40°
- Top left corner: .33"
- Top center: CL
- Top center: .015 I.R.
- Top center: .031 I.R.
- Top center: 45°
- Top center: .33"
- Top center: .66"
- Top center: .33"
- Top center: .73"
- Top center: .33"
- Top center: .42"
- Top center: .07"
- Top center: .322"
- Top center: .03"
- Top center: RUNOUT

4 RIB & END DETAILS
2 N.T.S. DETAIL

12" COVERAGE

4" PITCH

11/16" (REF)

2-5/8"

WIDTH AVAILABLE FOR LOUVERS (TYP .3 PLS)

6 TRIPLE 4 PANEL
2 N.T.S. DETAIL

16" COVERAGE

4" PITCH

11" (REF)
16

2-5/8"

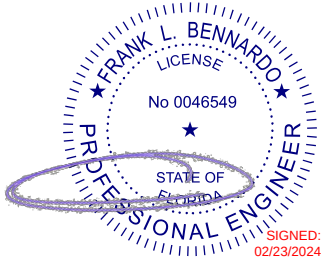
WIDTH AVAILABLE FOR LOUVERS
(TYP .4 PLS)

5 QUAD 4 PANEL
2 N.T.S. DETAIL

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

FL

COPIES WITHOUT
ORIGINAL PE SEAL NOT
VALID FOR PERMIT



FL 46555.1

**ENGINEERING
EXPRESS®**
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

AMERICAN CONSTRUCTION METALS

6938 N. US HIGHWAY 41
APOLLO BEACH, FL 33572
(813) 671 - 4009

TRIPLE 4 & QUAD 4 ALUMINUM SOFFIT
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#46555.1)

[illegible]

23-70565

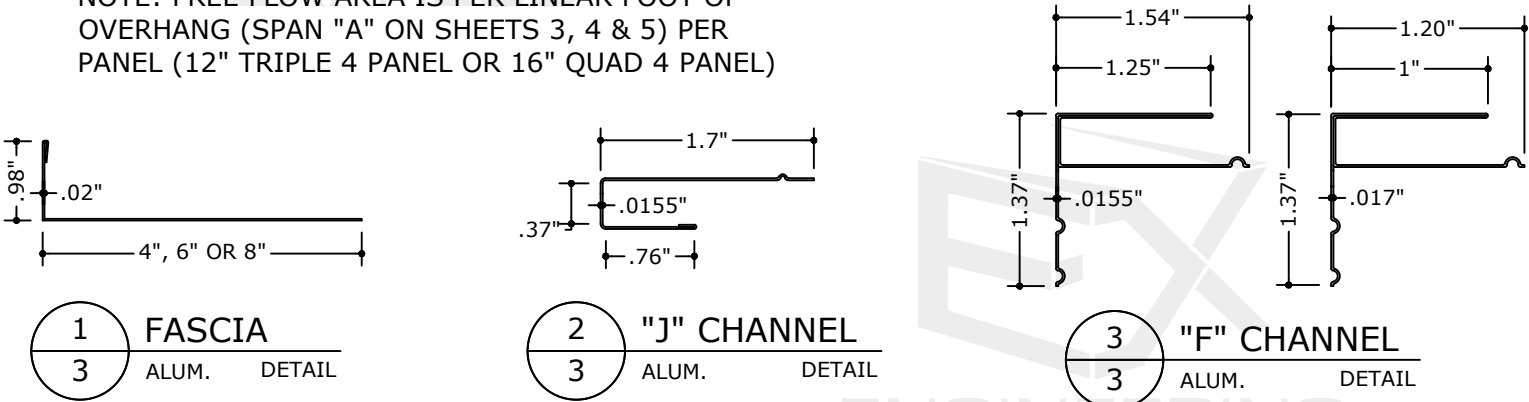
SCALE: NTS UNLESS NOTED

26

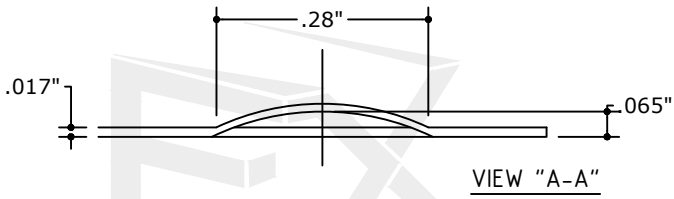
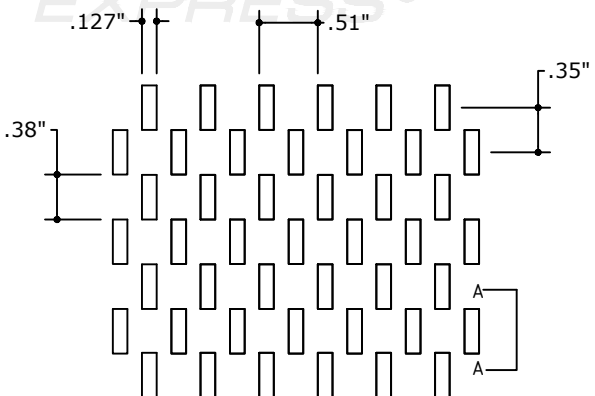
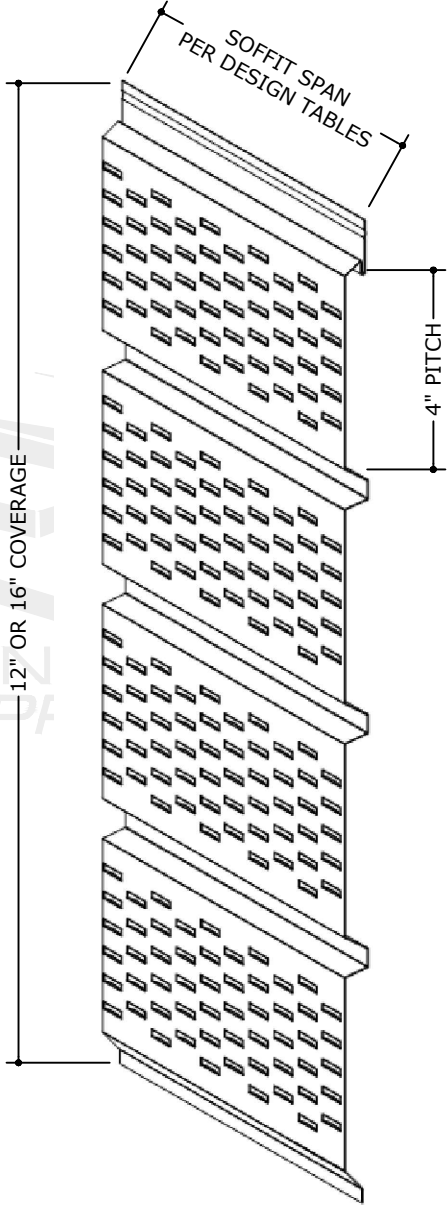
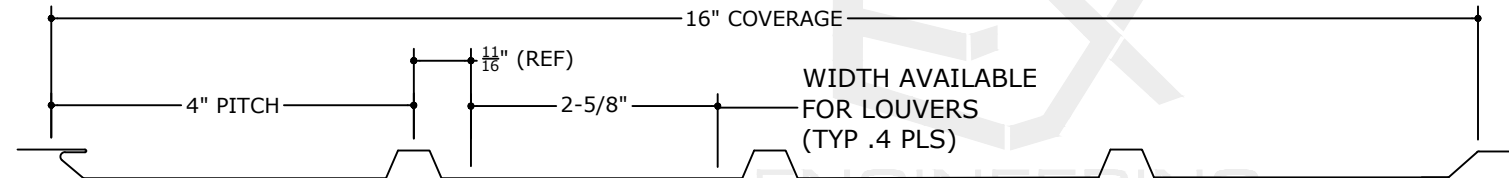
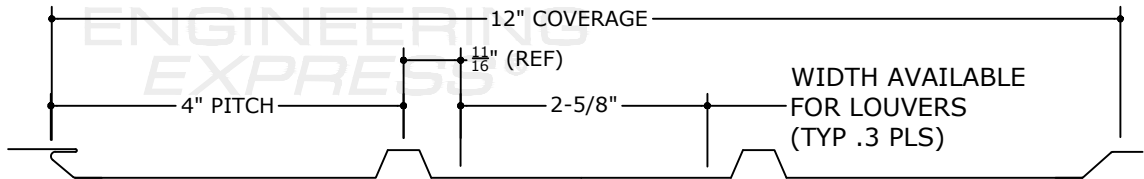
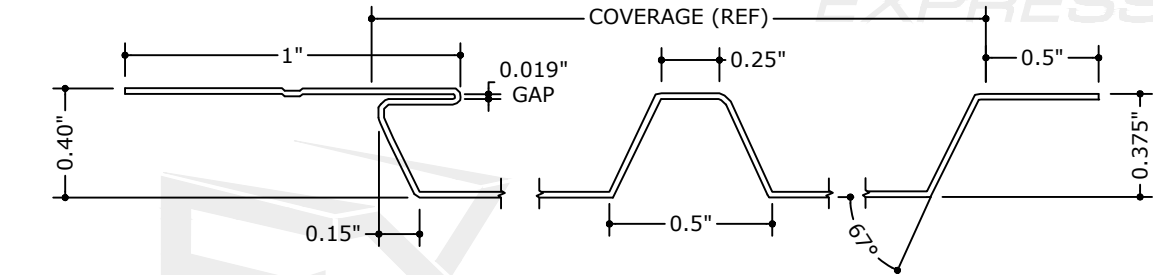
U-GROOVE SOFFIT DETAILS

SOFFIT AIR FLOW TABLE									
SOFFIT TYPE		AIR FLOW			SOFFIT TYPE		AIR FLOW		
		FREE FLOW AREA (IN^2/FT^2)	FREE FLOW AREA (IN^2/LINEAR FT)	% FREE FLOW AREA			FREE FLOW AREA (IN^2/FT^2)	FREE FLOW AREA (IN^2/LINEAR FT)	% FREE FLOW AREA
TRIPLE 4	CENTER VENT PATTERN	1.89	1.89*	1.31%	QUAD 4	CENTER VENT PATTERN	3.78	5.04*	2.63%
	FULL VENT PATTERN	5.67	5.67*	3.94%		FULL VENT PATTERN	7.56	10.08*	5.25%

NOTE: FREE FLOW AREA IS PER LINEAR FOOT OF OVERHANG (SPAN "A" ON SHEETS 3, 4 & 5) PER PANEL (12" TRIPLE 4 PANEL OR 16" QUAD 4 PANEL)



F-TRACK WITH SCREWED-SOFFIT CONNECTION DEEMED TO COMPLY WITH SOFFIT INSTALLATION INSTRUCTIONS PER FBC 1410.3 & FRC R704.2 PER ENGINEER'S RATIONAL ANALYSIS OF F-CHANNEL AS A SOFFIT SUPPORT COMPONENT AND PER RESULTS OF TESTING EVALUATION LAB INC TEST REPORTS #TEL01190073 & #TEL01192924

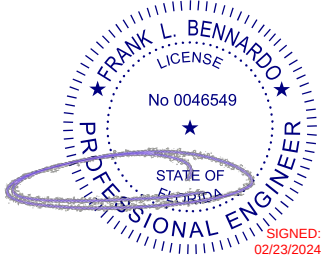


5/6 FULL VENT - NARROW VENT PATTERN
3 N.T.S. DETAIL / SECTION

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

FL

COPIES WITHOUT
ORIGINAL PE SEAL NOT
VALID FOR PERMIT



FL 46555.1

ENGINEERING
EXPRESS®

POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

AMERICAN CONSTRUCTION METALS

6938 N. US HIGHWAY 41
APOLLO BEACH, FL 33572
(813) 671 - 4009

TRIPLE 4 & QUAD 4 ALUMINUM SOFFIT
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#46555.1)

DATE	DRWN	CHKD	MLD	CCB	INIT	ISSUE
2/23/24						

COPYRIGHT ENGINEERING EXPRESS®

23-70565

SCALE: NTS UNLESS NOTED

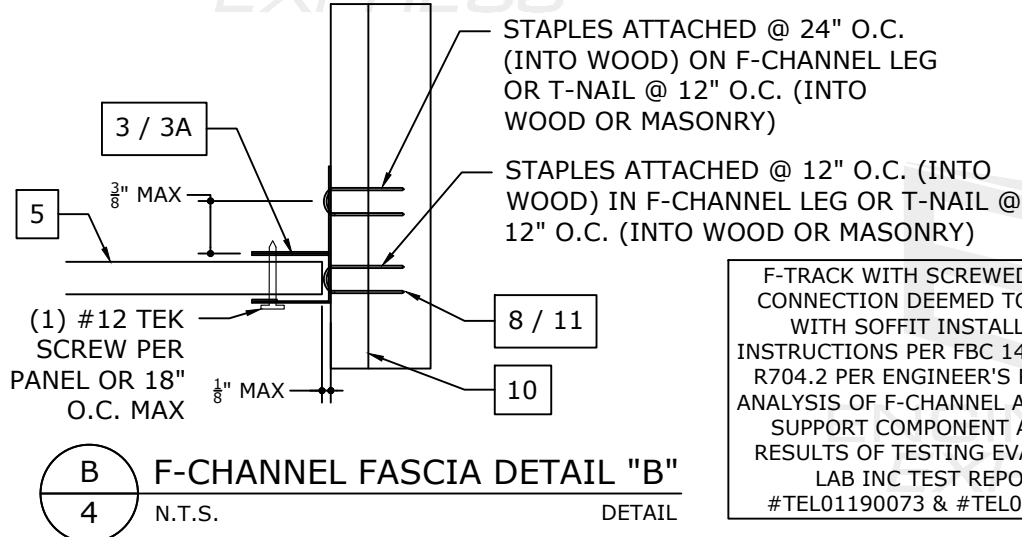
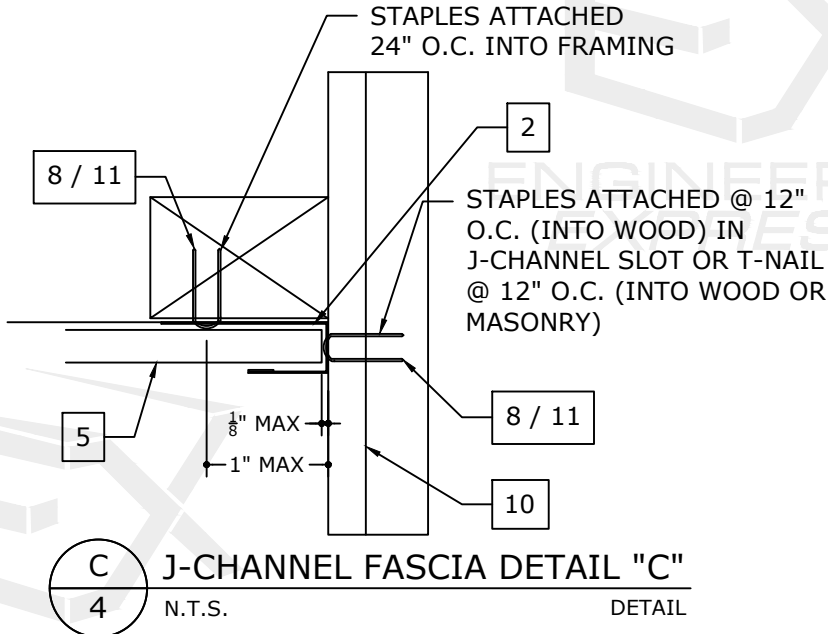
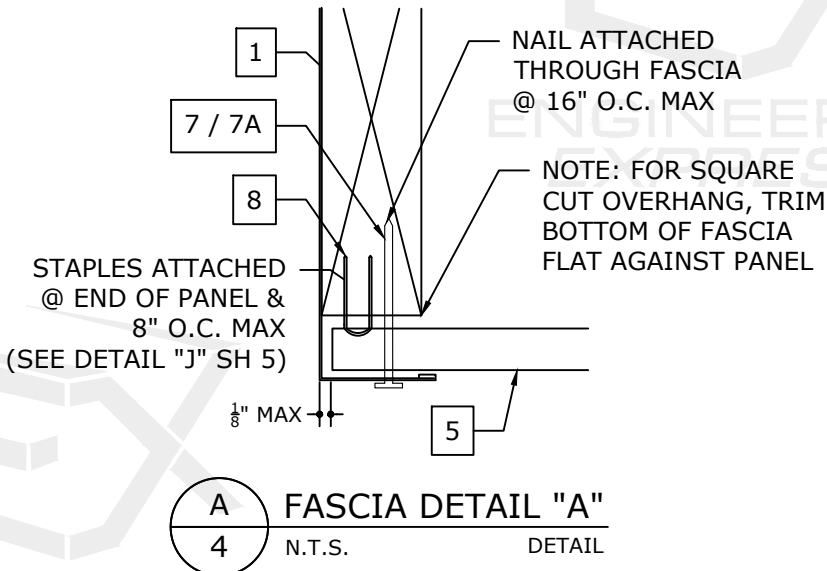
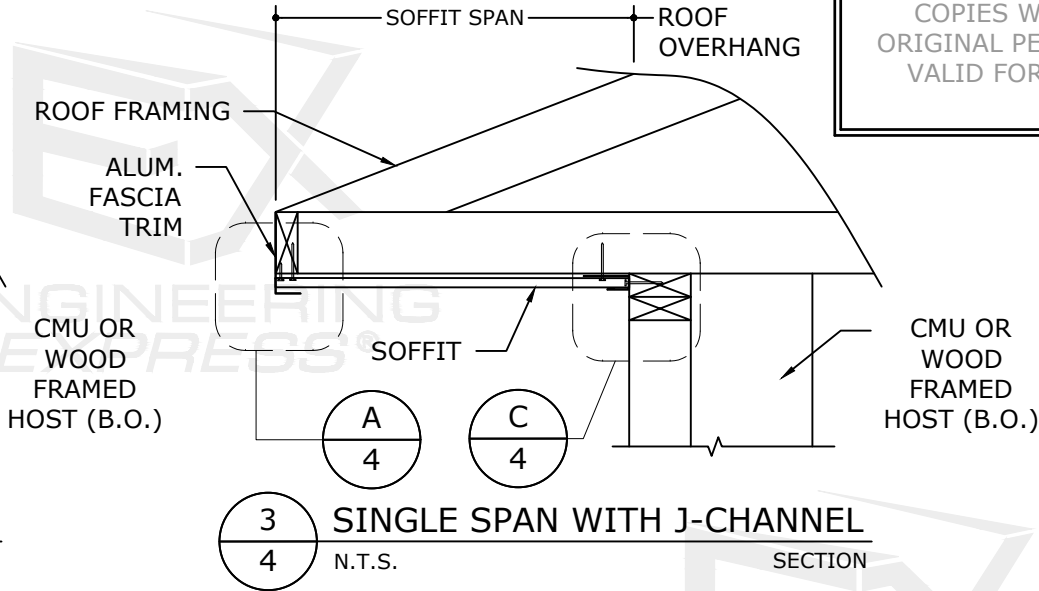
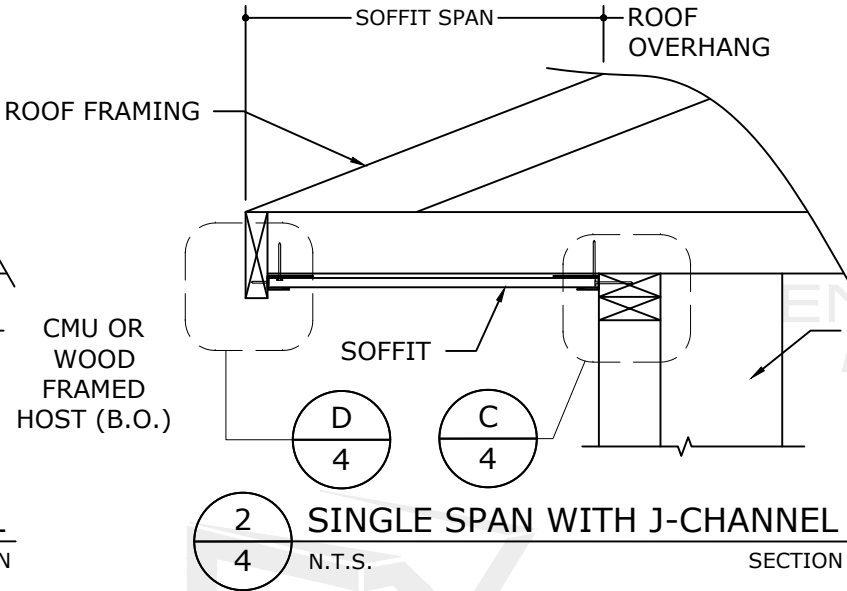
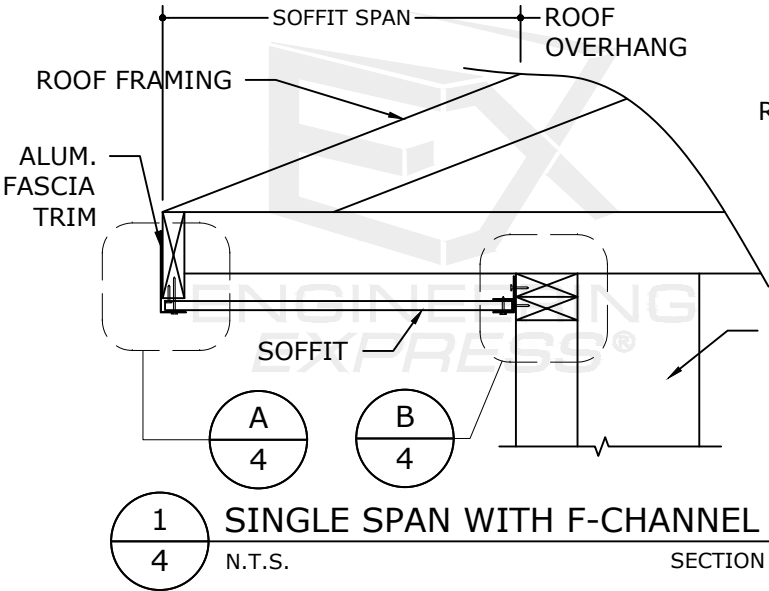
SECTION VIEWS - CONNECTION DETAILS (V-GROOVE & U-GROOVE)
SOFFIT WITH ADJACENT, PARALLEL TRUSS

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

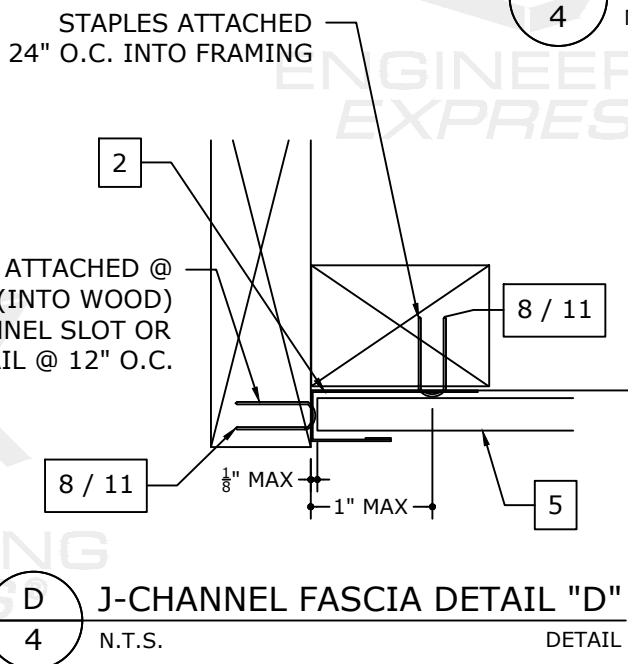
FL

COPIES WITHOUT
ORIGINAL PE SEAL NOT
VALID FOR PERMIT

FRANK L. BENNARDO
LICENSE
No 0046549
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
SIGNED:
02/23/2024



F-TRACK WITH SCREWED-SOFFIT CONNECTION DEEMED TO COMPLY WITH SOFFIT INSTALLATION INSTRUCTIONS PER FBC 1410.3 & FRC R704.2 PER ENGINEER'S RATIONAL ANALYSIS OF F-CHANNEL AS A SOFFIT SUPPORT COMPONENT AND PER RESULTS OF TESTING EVALUATION LAB INC TEST REPORTS #TEL01190073 & #TEL01192924



SINGLE SPAN LENGTH "A"	ASD DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
8"	70.0	-141.0
10"	60.0	-60.0
12"	50.0	-50.0
14"	38.5	-38.5
16"	30.0	-30.0

- CONNECTION & TABLE NOTES:
- WOOD FRAMING AND CONNECTIONS TO BE DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD (B.O.)
 - 12d COMMON NAIL OR 3/16" ITW TAPCON CONCRETE SCREW (MIN 1-1/4" EMBEDMENT) @ 24" ON CENTER
 - C&C DESIGN PRESSURE FROM ASCE 7-22 FIGURE 30.7-1 (ASD DESIGN PRESSURES). "POSITIVE" SHALL DESIGNATE UPWARDS / DIRECT LOADING AND "NEGATIVE" SHALL DESIGNATE DOWNWARDS / SUCTION LOADING

FL 46555.1

ENGINEERING
EXPRESS®

POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

AMERICAN CONSTRUCTION METALS

6938 N. US HIGHWAY 41
APOLLO BEACH, FL 33572
(813) 671 - 4009

TRIPLE 4 & QUAD 4 ALUMINUM SOFFIT
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#46555.1)

DATE	2/23/24								
DRWN	CHKD	MLD	CCB						
REMARKS	INIT	ISSUE							

COPYRIGHT ENGINEERING EXPRESS®

23-70565

SCALE: NTS UNLESS NOTED

4 OF 6

c:\users\colby\engineering express\production - documents\projects\23-70565 florida product approval for fl12019 2023 submittal\work\drawings & cad\23-70565d - florida product approval for fl12019

2/20/2024 4:08 PM COLBY

FRANK L. BENNARDO
LICENSE
No 0046549
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
SIGNED: 02/23/2024

1	SINGLE SPAN WITH F-CHANNEL
5	N.T.S.

SECTION

2 5	SINGLE SPAN WITH J-CHANNEL	
	N.T.S.	SECTION

J-CHANNEL FASCIA DETAIL "G"
 N.T.S. DETAIL

FASCIA DETAIL "E"
N.T.S. DETAIL

F-CHANNEL FASCIA DETAIL "F"
N.T.S. DETAIL

CONNECTION & TABLE NOTES:

FL 46555.1

**ENGINEERING
EXPRESS®**
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

AMERICAN CONSTRUCTION METALS
6028 N. I-15 HIGHWAY 411

6938 N. US HIGHWAY 41
APOLLO BEACH, FL 33572
(813) 671 - 4009

TRIPLE 4 & QUAD 4 ALUMINUM SOFFIT
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#46555.1)

[illegible]

COPYRIGHT ENGINEERING EXPRESS®

23-70565

SCALE: NTS UNLESS NOTED

6