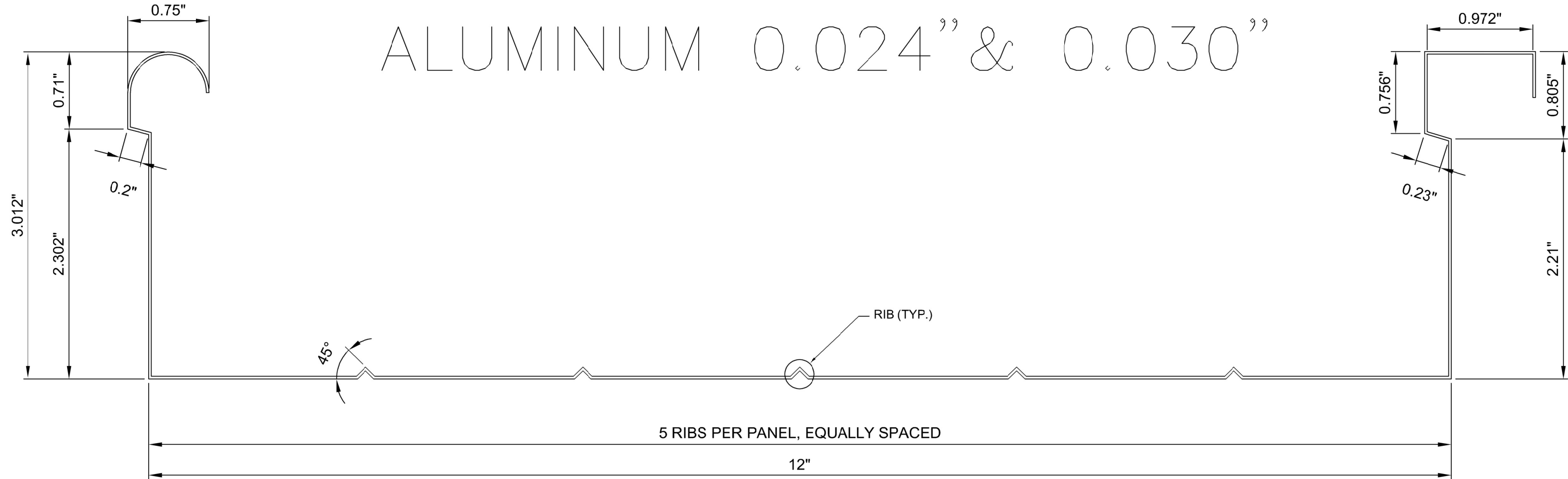


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3" RISER ROOF PANELS ALUMINUM 0.024" & 0.030"



ZONE 2				
Exposure B	ASCE 7-22 Ultimate Design Pressure Span Table			5 Degree
Open Structures (Clear Wind Flow)				
Wind Speed	Design Pressure/Suction		0.024" Span (ft).	0.030" Span (ft).
110	28.3	25.3	10.1	10.9
120	33.7	30.1	9.6	10.3
130	39.5	35.3	9.1	9.8
140	45.8	41.0	8.6	9.3
150	52.6	47.0	8.2	8.9
160	59.9	53.5	7.9	8.5

ZONE 2				
Exposure B	ASCE 7-22 Ultimate Design Pressure Span Table			5 Degree
Open Structures (Obstructed Wind Flow) & Partially Open Structure				
Wind Speed	Design Pressure/Suction		0.024" Span (ft).	0.030" Span (ft).
110	13.7	30.0	9.9	10.7
120	16.3	35.7	9.4	10.1
130	19.1	41.9	8.9	9.6
140	22.2	48.6	8.5	9.1
150	25.5	55.8	8.1	8.7
160	29.0	63.5	7.7	8.3

ZONE 2				
Exposure B	ASCE 7-22 Ultimate Design Pressure Span Table			1.2 Degree
Open Structures (Clear Wind Flow)				
Wind Speed	Design Pressure/Suction		0.024" Span (ft).	0.030" Span (ft).
110	24.4	22.7	10.7	11.5
120	29.0	27.0	10.1	10.8
130	34.1	31.7	9.5	10.3
140	39.5	36.8	9.1	9.8
150	45.4	42.2	8.7	9.3
160	51.6	48.0	8.3	8.9

ZONE 2				
Exposure B	ASCE 7-22 Ultimate Design Pressure Span Table			1.2 Degree
Open Structures (Obstructed Wind Flow) & Partially Open Structure				
Wind Speed	Design Pressure/Suction		0.024" Span (ft).	0.030" Span (ft).
110	11.1	24.8	10.6	11.4
120	13.2	29.5	10.0	10.8
130	15.5	34.6	9.5	10.2
140	18.0	40.2	9.0	9.7
150	20.7	46.1	8.6	9.3
160	23.5	52.5	8.3	8.9

ZONE 2				
Exposure C	ASCE 7-22 Ultimate Design Pressure Span Table			5 Degree
Open Structures (Clear Wind Flow)				
Wind Speed	Design Pressure/Suction		0.024" Span (ft).	0.030" Span (ft).
110	41.8	37.3	8.9	9.6
120	49.7	44.5	8.4	9.0
130	58.4	52.2	8.0	8.6
140	67.7	60.5	7.6	8.2
150	77.7	69.5	7.2	7.8
160	88.4	79.0	6.9	7.5

ZONE 2				
Exposure C	ASCE 7-22 Ultimate Design Pressure Span Table			5 Degree
Open Structures (Obstructed Wind Flow) & Partially Open Structure				
Wind Speed	Design Pressure/Suction		0.024" Span (ft).	0.030" Span (ft).
110	20.3	44.3	8.7	9.4
120	24.1	52.7	8.2	8.9
130	28.3	61.9	7.8	8.4
140	32.8	71.8	7.4	8.0
150	37.7	82.4	7.1	7.6
160	42.8	93.8	6.8	7.3

ZONE 2				
Exposure C	ASCE 7-22 Ultimate Design Pressure Span Table			1.2 Degree
Open Structures (Clear Wind Flow)				
Wind Speed	Design Pressure/Suction		0.024" Span (ft).	0.030" Span (ft).
110	36.0	33.5	9.4	10.1
120	42.9	39.9	8.8	9.5
130	50.3	46.8	8.4	9.0
140	58.3	54.3	8.0	8.6
150	67.0	62.3	7.6	8.2
160	76.2	70.9	7.3	7.8

ZONE 2				
Exposure C	ASCE 7-22 Ultimate Design Pressure Span Table			1.2 Degree
Open Structures (Obstructed Wind Flow) & Partially Open Structure				
Wind Speed	Design Pressure/Suction		0.024" Span (ft).	0.030" Span (ft).
110	16.4	36.6	9.3	10.0
120	19.5	43.6	8.8	9.4
130	22.9	51.2	8.3	9.0
140	26.6	59.3	7.9	8.5
150	30.5	68.1	7.6	8.1
160	34.7	77.5	7.2	7.8

PRODUCT APPROVAL DETAILS:

BLDG CODE: 2026 FLORIDA BUILDING CODE 9TH EDITION

HVHZ:NOT FOR USE IN HVHZ

SECTION 1504.3.1 IS NOT INCLUDED IN THE SCOPE OF THIS EVALUATION. ALL FASTENERS WITHIN 3,000 FEET OF THE COASTLINE SHALL MEET THE CORROSION RESISTANCE REQUIREMENTS OF SECTION 1711.

LIMITS OF USE: FOR PATIO USE ONLY, NON HABITABLE STRUCTURES.

- CARPORTS
- PATIO COVERS
- SUNROOMS
- SCREEN ENCLOSURES
- CANOPIES
- OTHER MINOR SIMILAR STRUCTURES

NOTES:

- ALUMINUM ROOF PANELS SHALL BE OF ALUMINUM ALLOY 3105-H1 OR APPROVED EQUAL.
- ROOF PANEL METAL THICKNESS TESTED: 0.024" AND 0.030".
- PRODUCT MATERIALS CONFORM TO ASTM B209.
- ALL INSIDE BEND RADII ARE 0.047 UNLESS OTHERWISE NOTED.
- STANDARD MANUFACTURING TOLERANCES:
DIMENSION+ 1- 0.005
RADIUS +/- .005
ANGLE +/- 1'
- PRODUCT TEST REPORT FOR 0.030" AND 0.024" THICKNESS ROLLED 3" RISER ROOF PANELS, TEST REPORT NO.: E9946.01-401-44, OCT. 2, 2015. ASTM E330/E330M-14. ARCHITECTURAL TESTING, INC. AN INTERTEK COMPANY, 2250 MASSARO BLVD., TAMPA, FL 33619.
- ALL PRODUCT PERFORMANCE SPECIFICATIONS AND CONSTRUCTION REQUIREMENTS SHALL BE ENGINEERED BY A LICENSED DESIGN PROFESSIONAL IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL, SPECIFICATIONS & GUIDELINES FOR ALUMINUM STRUCTURES, WASHINGTON, DC, FOR WIND RESISTANCE IN CONFORMANCE TO FBC CHAPTER 16 FOR COMPONENTS AND CLADDING LOADS, ASCE/SEI 7-22 CHAPTER 30 PART 1 LOW RISE, PART 4 ROOF OVERHANGS, AND PART 5 NON BUILDING STRUCTURES FOR ROOF COMPONENTS AND CLADDING FOR ENCLOSED AND OPEN STRUCTURES. EFFECTIVE AREA FOR WIND LOAD CALCULATIONS BASED ON 36 SQ. FEET (ABSOLUTE VALUE OF CONTROLLING DESIGN PRESSURE IS SHOWN ON SPAN TABLES).
- CLEAR WIND FLOW DENOTES RELATIVELY UNOBSTRUCTED WIND FLOW BLOCKAGE LESS THAN OR EQUAL TO 50% OBSTRUCTED WIND FLOW DENOTES OBJECTS BELOW ROOF INHIBITING WIND FLOW (>50% BLOCKAGE AS DEFINED BY ASCE/SEI 7-22.
- SPAN SCHEDULE SHOW MAXIMUM ROOF PANEL SPANS BETWEEN SUPPORT. INTERPOLATION BETWEEN SPAN VALUES IN PERMITTED. MAX. SPAN DEFLECTION LIMIT L/60.
- MEAN ROOF HEIGHT OF STRUCTURE SHALL NOT EXCEED 15 FEET ABOVE GRADE. SPAN TABLES FOR OPEN STRUCTURES BASED ON 5' MAX. ROOF SLOPE. SPAN TABLES FOR ENCLOSED STRUCTURES BASED ON 27' MAX. ROOF SLOPE.
- EACH ROOF PANEL SHALL BE CONNECTED PER DESIGN PROFESSIONAL'S INSTRUCTIONS, BUT SHALL HAVE MIN. OF (3)-#10 SMS W/NEOPRENE GASKET AND WASHER AT EACH SUPPORT POINT (OR OTHER APPROVED CONNECTION BY DESIGN PROFESSIONAL) W/ MIN. 0.040" THICK, 6063-T6 ALUMINUM BASE METAL. SUPPORT BEAMS SHALL BE PROVIDED ON EDGE PANELS PARALLEL TO PANEL SPAN.
- CALCULATION WAS PERFORMED BASED ON THE DEFLECTION ONLY, NOT MOMENT OR ANY OTHER FACTORS.
- PANEL STRUCTURAL PROPERTIES DERIVED FROM AUTO-CAD MASS PROPERTIES.
- THIS SYSTEM IS NOT APPROVED FOR IMPACT RESISTANCE FROM LARGE OR SMALL DEBRIS.
- THIS SYSTEM SHALL BE CONFINED TO NONHABITABLE LIVING AREAS.
- PRODUCT TEST REPORT FOR 26 AND 24 GAUGE ROLLED FORMED GALVALUME ROOF PANEL, TEST REPORT E9946.01-401-44, OCT 2, 2015. ASTM E330/E330/E330M-14. ARCHITECTURAL TESTING INC. AN INTERTEK COMPANY, 2250 MASSARO BLVD., TAMPA, FL 33619
- SEPARATE SITE-SPECIFIC ENGINEERING SHALL BE REQUIRED IN ORDER TO DEViate FROM LOADS, DEFLECTIONS, OR SPANS CONTAINED HEREIN. LINEAR INTERPOLATION OF THE OF THE ALLOWABLE SPAN TABLES LISTED HEREIN SHALL NOT BE ALLOWED. CONTACT THIS ENGINEER FOR ALTERNATE SPAN CALCULATIONS AS MAY BE REQUIRED.
- THE SINGLE-SPAN ANALYSIS IS PRESENTED HERE AS THIS IS THE TYPICAL CRITICAL CONDITION. MULTIPLE SPANS WITH INTERMEDIATE CARRY BEAMS CAN PRODUCE BETTER SPANS CONTACT THIS ENGINEER FOR ALTERNATE SPAN CALCULATIONS AS MAY BE REQUIRED.
- THE CONTRACTOR SHALL CAREFULLY CONSIDER POSSIBLE ADDITIONAL IMPOSED LOADS ON THE ROOF SYSTEM. IF SUCH LOADS EXIST, APPROPRIATE REDUCTIONS IN SPANS SHALL BE ANALYZED BY A LICENSED PROFESSIONAL ENGINEER.
- FABRICATION SHALL BE IN ACCORDANCE WITH APPROVED FABRICATION METHODS BY ALUMIFLO, INC AT THEIR ALUMIFLO,INC FACILITY. USE OF THESE SPAN AND LOAD TABLES WITH OTHER MANUFACTURERS OF SIMILAR PRODUCTS IS SPECIFICALLY PROHIBITED.
- ALL FASTENERS TO BE #12 OR LARGER, SAE GRADE 5 OF BETTER UNLESS OTHERWISE SPECIFIED. FASTENERS SHALL BE PLATED OR COATED WITH CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH ANY APPLICABLE FEDERAL, STATE OR LOCAL CODES, AND 2026 FLORIDA BUILDING CODE 9TH EDITION, SECTION 1711.
- CONCRETE ANCHORS NOTED HEREIN SHALL BE EMBEDDED INTO UNCRACKED CONCRETE SPANS INSTALL ALL CONCRETE ANCHORS PER MANUFACTURERS RECOMMENDATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR INSULATING THE MEMBERS OF THIS SYSTEM FOR DISSIMILAR METALS TO PREVENT ELECTROLYSIS.
- THE CONTRACTOR IS RESPONSIBLE FOR WEATHER PROOFING MATERIALS AND INSTALLATION SUCH AS FLASHING, CAULKING, ETC.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT IS NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- THIS SYSTEM IS VALIDATED FOR THE STRUCTURAL DESIGN AS SHOWN ONLY.
- USE OF THIS SPECIFICATION BY CONTRACTOR, et al INDEMNIFIES & AND HOLDS HARMLESS THE ENGINEER SIGNING AND SEALING THIS PLAN FOR ALL COSTS & DAMAGES INCLUDING LEGAL FEES, APPELLATE FEES, COURTS COSTS -OR OTHER COSTS RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY FEDERAL, STATE AND LOCAL CODES, AS WELL AS FROM DEVIATIONS FROM THIS SPECIFICATION.
- VERIFICATION OF THE STRUCTURAL INTEGRITY / CAPACITY OF THE SUPPORTING HOST STRUCTURE AND SUPPORT FRAMING ELEMENTS ARE. THE RESPONSIBILITY OF THE SITE SPECIFIC DESIGN PROFESSIONAL.
- THESE DESIGN SPAN TABLES ARE APPLICABLE TO PATIO COVERS, SCREEN ROOMS AND CARPORTS ATTACHED (OR SUPPORTED BY FOUR WALL CONSTRUCTION) TO THE BUILDING ENVELOPE OF THE MAIN HOST STRUCTURE.
- CALCULATION WAS PERFORMED BASED ON THE DEFLECTION ONLY, NOT MOMENT OR ANY OTHER FACTORS.

REVISIONS		
No.	DATE	DESCRIPTION
A	09/30/26	PERMIT SET

3" ALUMINUM RISER
ROOF PANELS

ALUMINUM PANEL
DETAILS SHEET
(ZONE 2)

FREDERIC P. CARRIE P.E., S.L., LEED AP BD+C
FLORIDA LICENSE #0791 FLORIDA SI. LICENSE #170680
DATE: 10/21/2022
DESIGNED BY: FCP CONSULTANTS, LLC
CHECKED BY: FCP CONSULTANTS, LLC
PROJECT: 2026 FLORIDA BUILDING CODE 9TH EDITION

FCP CONSULTANTS, LLC
CONSULTING ENGINEERS

13555 SW 135th Terrace
Miami, FL 33186
Ph: (305) 427-3784
fcarr@fcpc.com

Design By	FC
Drawn By	CB
Checked By	FC
Scale	AS NOTED
Date	09-30-2026
Solicitation No.	-

SHEET NUMBER

A-1.2

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signed by
Frederic P
Carrie
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