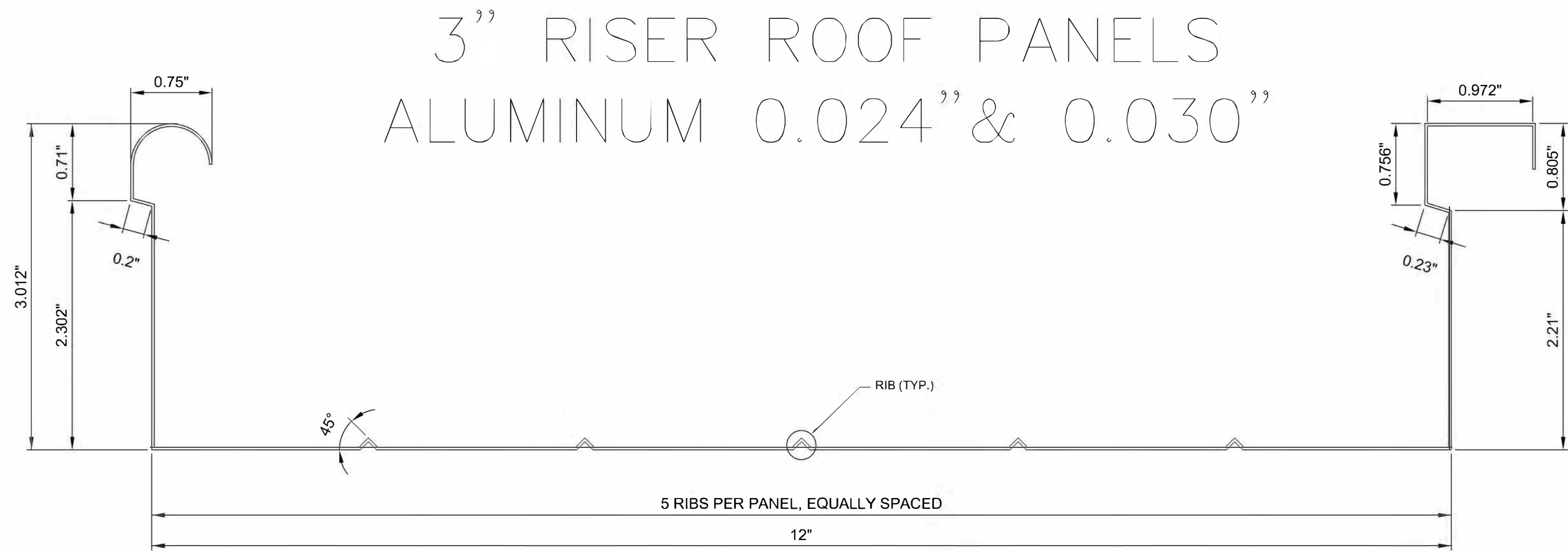


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ZONE 3				
Exposure B	ASCE 7-22 Ultimate Design Pressure Span Table		5 Degree	
Open Structures (Clear Wind Flow)				
Wind Speed	Design Pressure/Suction		0.024" Span (ft).	0.030" Span (ft).
110	37.7	50.2	8.4	9.0
120	44.9	59.7	7.9	8.5
130	52.7	70.0	7.5	8.1
140	61.1	81.3	7.1	7.7
150	70.2	93.3	6.8	7.3
160	79.8	106.1	6.5	7.0

ZONE 3				
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	18.00	59.16	7.9	8.5
120	21.43	70.42	7.5	8.0
130	25.14	82.62	7.1	7.6
140	29.17	95.83	6.8	7.3
150	33.49	110.03	6.4	6.9
160	38.10	125.20	6.2	6.6

ZONE 3				
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	32.5	44.3	8.7	9.4
120	38.7	52.7	8.2	8.9
130	45.4	61.9	7.8	8.4
140	52.7	71.8	7.4	8.0
150	60.5	82.4	7.1	7.6
160	68.8	93.7	6.8	7.3

ZONE 3				
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	55.7	74.1	7.4	7.9
120	66.3	88.2	6.9	7.5
130	77.8	103.5	6.6	7.1
140	90.2	120.0	6.3	6.7
150	103.6	137.8	6.0	6.4
160	117.9	156.8	5.7	6.2

ZONE 3				
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	26.6	87.4	7.0	7.5
120	31.7	104.0	6.6	7.1
130	37.2	122.1	6.2	6.7
140	43.1	141.5	5.9	6.4
150	49.5	162.5	5.7	6.1
160	56.3	184.9	5.4	5.8

ZONE 3				
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	48.0	65.4	7.7	8.2
120	57.2	77.9	7.2	7.8
130	67.1	91.4	6.9	7.4
140	77.8	106.0	6.5	7.0
150	89.3	121.7	6.2	6.7
160	101.6	138.4	6.0	6.4

PRODUCT APPROVAL DETAILS:

BLDG CODE: 2023 FLORIDA BUILDING CODE 8TH EDITION
HVHZ: NOT FOR USE IN HVHZ
LIMITS OF USE: FOR PATIO USE ONLY.
- 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 NON-HABITABLE 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 ALUMFLO, INC AT THEIR ALUMFLO,INC FACILITY. USE OF THESE SDPAN 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.
- 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 S 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.



Digitally
signed by
Frederic P
Carrie
Date:
2024.01.04
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-05'00'

REVISIONS		
No.	DATE	DESCRIPTION
A	12/21/23	PERMIT SET

3" ALUMINUM RISER
ROOF PANELS

ALUMINUM PANEL
DETAILS SHEET
(ZONE 3)

FREDERIC P. CARRIE P.E., S.E., LEED AP BD+C
FLORIDA LICENSE #0091 FLORIDA S.E. LICENSE #1707660
DATE: 10/21/2022
DESIGNED BY: FPC
CHECKED BY: FPC
DATE: 10/21/2022
DISCLAIMER: ALL INFORMATION AND ANY INFORMATION
BASED ON THIS DRAWING COMPARES WITH THE APPLICABLE MINIMUM BUILDING CODE ORDERS



Design By	FC
Drawn By	QB
Checked By	FC
Scale	AS NOTED
Date	12-22-2023
Solicitation No.	-

SHEET NUMBER
A-1.3