

FOUR SEASONS BUILDING PRODUCTS

ILLUMA-VIEW ROOF PANELS

COMPOSITE POLYCARBONATE ROOF PANEL

NON-IMPACT - HVHZ / NON-HVHZ

MAXIMUM ALLOWABLE CLEAR SPAN TABLES

Live Load &/or Uplift	Deflection Limit (L/...)	Allowable Span
13 PSF	120	15'-0"
13 PSF	180	13'-1"
13 PSF	240	11'-11"
16 PSF	120	14'-1"
16 PSF	180	12'-4"
16 PSF	240	11'-2"
19 PSF	120	13'-3"
19 PSF	180	11'-7"
19 PSF	240	10'-6"
23 PSF	120	12'-5"
23 PSF	180	10'-10"
23 PSF	240	9'-10"
27 PSF	120	11'-8"
27 PSF	180	10'-3"
27 PSF	240	9'-3"
32 PSF	120	11'-1"
32 PSF	180	9'-8"
32 PSF	240	8'-10"
37 PSF	120	10'-6"
37 PSF	180	9'-3"
37 PSF	240	8'-5"
42 PSF	120	9'-10"
42 PSF	180	8'-10"
42 PSF	240	8'-0"
46 PSF	120	9'-5"
46 PSF	180	8'-7"
46 PSF	240	7'-9"
48 PSF	120	9'-3"
48 PSF	180	8'-5"
48 PSF	240	7'-8"
51 PSF	120	8'-11"
51 PSF	180	8'-3"
51 PSF	240	7'-6"
54 PSF	80	8'-8"
54 PSF	120	8'-8"
54 PSF	180	8'-1"
54 PSF	240	7'-4"
57 PSF	80	8'-5"
57 PSF	120	8'-5"
57 PSF	180	7'-11"
57 PSF	240	7'-3"

TABLE USE INSTRUCTIONS:

- OBTAIN SITE-SPECIFIC GRAVITY (DOWNWARD), AND UPLIFT (UPWARD), OR LATERAL (WALL) DESIGN PRESSURES, PREPARED BY A DESIGN PROFESSIONAL PER THE GOVERNING CODE FOR THE PROJECT LOCATION. THE LARGER OF THE GRAVITY OR UPLIFT LOAD SHALL BE YOUR CONTROLLING DESIGN VALUE.
- FOR THE SELECTED PANEL AND OVERHANG CONDITION, READ THE ALLOWABLE SPAN FROM THE TABLE.

- WHERE A PRESSURE FALLS BETWEEN ROWS, USE THE NEXT HIGHER ROW OR INTERPOLATE LINEARLY.
- THE SMALLEST OF THE ALLOWABLE DESIGN SPANS GOVERNS THE MAXIMUM ALLOWABLE PANEL SPAN.
- VERIFY THE PROJECT SPAN DOES NOT EXCEED THE GOVERNING TABLE VALUE.
- FRONT (BEAM) AND BACK (HOST) CONNECTIONS ARE BY SEPARATE SITE-SPECIFIC DESIGN.
- FOR PRESSURES AND SPANS BEYOND THE VALUES STATED HEREIN, CONTACT THIS OFFICE FOR SITE-SPECIFIC CONSULTATION.

- FOR SITE-SPECIFIC ASD DESIGN PRESSURES, VISIT ENGINEERINGEXPRESS.COM/WIND.
- #### TABLE NOTES:
- SPANS ARE BASED ON THE PRODUCT TESTING AND EVALUATION REPORT PER THE GENERAL NOTES.
 - THE SPANS LISTED HEREIN ARE APPLICABLE FOR NON-HABITABLE STRUCTURES ONLY.
 - PRESSURES SHALL REFLECT THE CONTROLLING ASCE 7 LOAD COMBINATION (DEAD, LIVE, SNOW, WIND, ETC.), DETERMINED SEPARATELY.

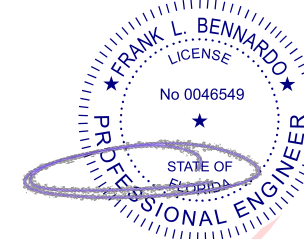
- TABLES CONSIDER ASD PRESSURES. FOR ULTIMATE PRESSURES, $P(ULT) = P(ASD) * 5/3$.
- SPANS SHOWN BASED ON PRODUCT TESTING LISTED IN GENERAL NOTES. TESTS PERFORMED TO A MAXIMUM OF 58 PSF AND DEFLECTION LIMITS SHOWN. SAFETY FACTOR OF 2 APPLIED IN TABLE ABOVE PER DESIGN NOTES.
- A 0.7x REDUCTION (PER FBC TABLE 1604.3 FOOTNOTE f) APPLIES TO DEFLECTION ONLY, UNLESS NOTED.
- OUTSIDE THE HVHZ, DEFLECTION LIMITS SHALL BE AS NOTED IN CLEAR SPAN TABLES.

- INSIDE THE HVHZ, DEFLECTION LIMITS CONSIDERED SHALL BE:
 - L/80 FOR SPANS $\leq 12'-0"$
 - L/180 FOR SPANS $> 12'-0"$
- MAXIMUM ALLOWABLE ROOF SLOPE SHALL BE 3" MAX PER FOOT (3:12).
- MAXIMUM ALLOWABLE ROOF OVERHANGS FOR THE VALUES LISTED ABOVE SHALL NOT EXCEED 3'-0". MAXIMUM ALLOWABLE SIDE OVERHANG IS 25% OF LAST PANEL WIDTH. (i.e. 12" MAX FOR 48" PANEL WIDTH).

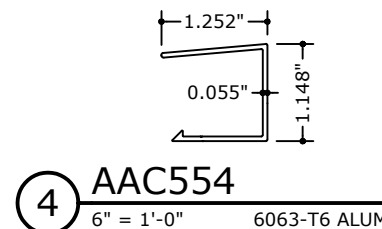
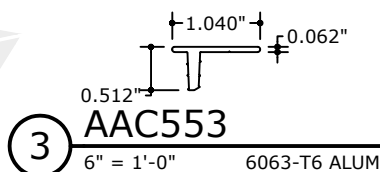
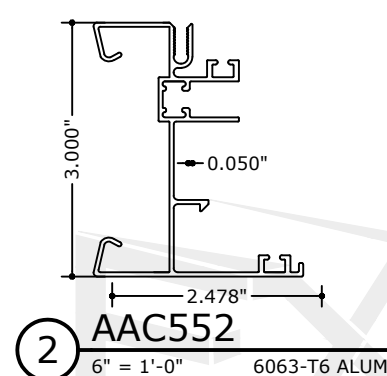
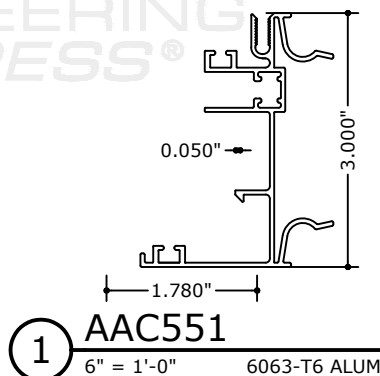
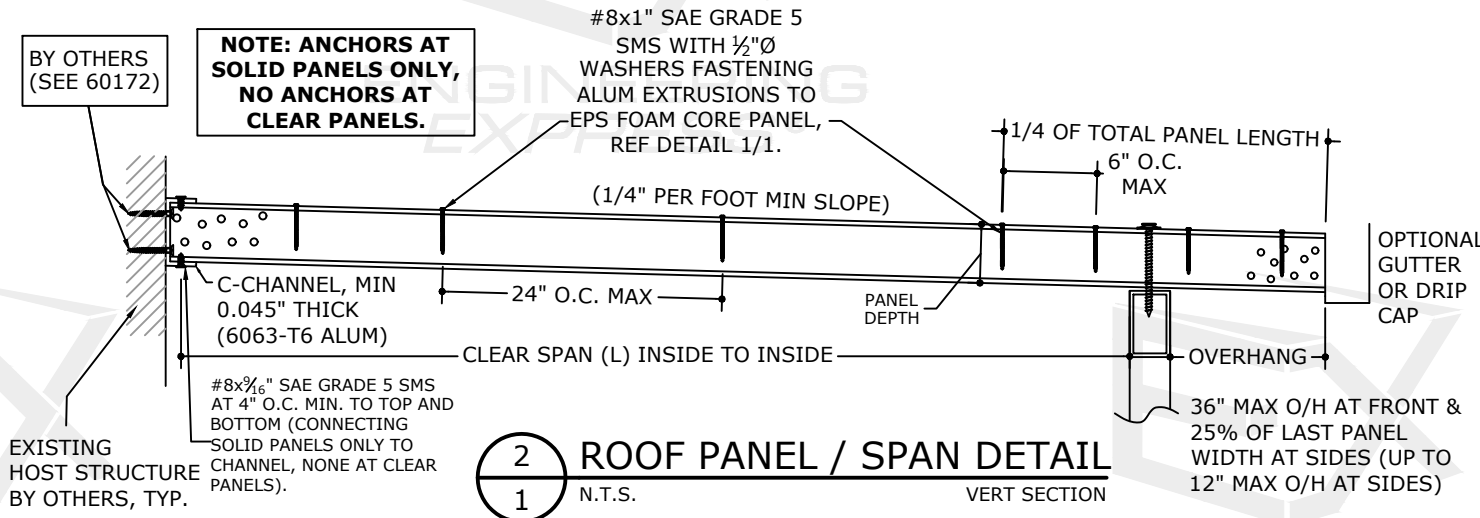
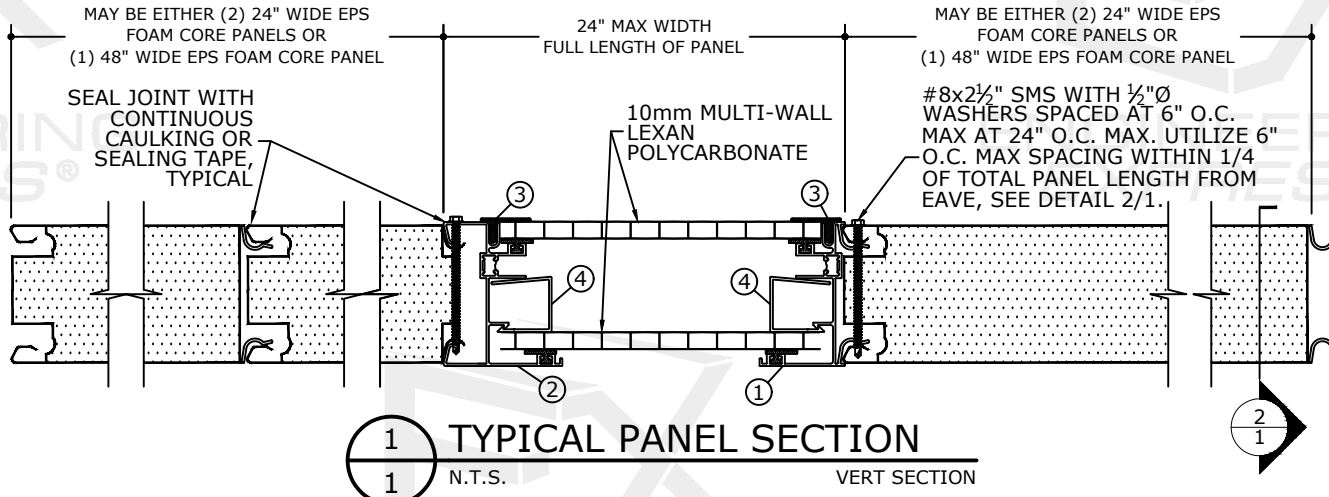
NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:
THIS IS A NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR 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.

ENGINEER SIGNATURE & SEAL NOTICE:
*PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.
*FOR FLORIDA STATEWIDE PRODUCT APPROVALS (FSAs) REGISTERED & APPROVED WITH THE STATE OF FLORIDA: ORIGINAL, SEALED COPIES OF APPROVED FLORIDA PRODUCT APPROVALS ARE NOT REQUIRED FOR PERMIT. SEE ECALC.IO/SEAL TO LEARN MORE.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



Digitally signed by
Frank Bennardo
Date: 2026.08.19
12:35:52 -04'00'



GENERAL NOTES

- ALLOWABLE DESIGN PRESSURES UTILIZED IN THIS DOCUMENT HAVE BEEN CALCULATED PER THE REQUIREMENTS OF THE FLORIDA BUILDING CODE NINTH EDITION (2026) & ASCE 7 USING ALLOWABLE STRESS DESIGN METHODOLOGY WITH THE CRITERIA AS OUTLINED HEREIN. REQUIRED DESIGN PRESSURES SHALL BE CALCULATED ON A SITE-SPECIFIC BASIS AND USED WITH THE DESIGN SCHEDULES HEREIN
- THIS SPECIFICATION HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR USE WITHIN & OUTSIDE OF THE HVHZ.
- COMPOSITE ROOF PANELS SHALL COMPLY WITH CHAPTER 7 SECTION 720, CHAPTER 8 SECTION 803, CLASS A INTERIOR FINISH, AND CHAPTER 26 SECTION 2603 OF THE FBC.
- DESIGN PROFESSIONAL SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA BEYOND AS STATED HEREIN MAY REQUIRE ADDITIONAL SITE-SPECIFIC SEALED ENGINEERING.
- THIS SYSTEM IS NOT APPROVED FOR LARGE OR SMALL IMPACT RESISTANCE. WHEN USED WITHIN THE HVHZ, THIS SYSTEM SHALL BE LIMITED TO NON-HABITABLE LIVING AREAS.
- THE DESIGN PROFESSIONAL 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.
- SEPARATE 'SITE-SPECIFIC' SEALED ENGINEERING SHALL BE REQUIRED IN ORDER TO DEVIATE FROM LOADS, DEFLECTIONS, OR SPANS CONTAINED HEREIN. LINEAR INTERPOLATION OF THE ALLOWABLE SPAN TABLES LISTED HEREIN SHALL DETERMINE VALUES. CONTACT THIS ENGINEER FOR ALTERNATE SPAN CALCULATIONS AS NECESSARY.
- THE DESIGN PROFESSIONAL SHALL CAREFULLY CONSIDER POSSIBLE IMPOSING LOADS ON ROOF, INCLUDING BUT NOT LIMITED TO ANY CONCENTRATED LOADS WHICH MAY JUSTIFY GREATER DESIGN CRITERIA. THIS ADDITIONAL ROOF LOAD CRITERIA SHALL BE PROPERLY ANALYZED BY A DESIGN PROFESSIONAL.
- EPS CORE COMPOSITE PANELS SHALL BE CONSTRUCTED USING TYPE 3105-H254 INTERIOR AND EXTERIOR ALUMINUM FACINGS, 1.0 PCF EPS. THE EPS FOAM SHALL BE ADHERED TO THE ALUMINUM FACINGS WITH ISOGRIP SP5040D MOISTURE CURE URETHANE ADHESIVE (BY ASHLAND SPECIALTY CHEMICAL COMPANY). FABRICATION SHALL BE IN ACCORDANCE WITH APPROVED FABRICATION METHODS BY METALS BUILDING PRODUCTS AT THEIR GROVELAND FACILITY.
- POLYCARBONATE PANELS SHALL BE SABIC LEXAN (FORMERLY G.E. LEXAN) THERMOCLEAR MULTI-WALLED POLYCARBONATE SHEETS PER MIAMI-DADE NOA#15-0915.08. EPS PANEL PERFORMANCE CHARACTERISTICS FOR SELF IGNITION, FLAME SPREAD AND SMOKE DENSITY HAVE BEEN QUALIFIED THROUGH APPLICABLE ASTM TEST STANDARDS. SEE EVALUATION REPORT FOR MORE INFORMATION.
- ALL FASTENERS TO BE #8 OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- FOR PERMANENT OUTDOOR INSTALLATIONS, ALL EXPOSED ANCHORS, FASTENERS, CONNECTORS, AND METAL PLATES SHALL BE CORROSION RESISTANT. CORROSION RESISTANCE MAY BE PROVIDED BY INHERENT MATERIAL COMPOSITION OR, WHERE PERMITTED BY CODE, BY AN APPROVED PROTECTIVE COATING OR GALVANIZATION. WHERE APPLICABLE NEAR A SALTWATER COASTLINE, SUCH COMPONENTS SHALL COMPLY WITH FBC SECTION 1711, INCLUDING APPLICABLE REQUIREMENTS FOR EXPOSED, PROTECTED, OR ENCLOSED CONDITIONS. MATERIALS, COATINGS, AND FINISHES SHALL BE COMPATIBLE WITH CONNECTED MATERIALS, AND PROTECTIVE COATINGS SHALL BE CONTINUOUS OVER EXPOSED SURFACES. FASTENERS USED WITH ALUMINUM MEMBERS SHALL ALSO COMPLY WITH SECTION J.3.7.2 OF THE ALUMINUM DESIGN MANUAL, "SPECIFICATION FOR ALUMINUM STRUCTURES." SUBSTITUTION OF COMPONENTS FROM ALTERNATE MANUFACTURERS, OR WITH DIFFERENT MATERIALS, COATINGS, OR FINISHES, SHALL NOT BE ASSUMED EQUIVALENT AND MAY REQUIRE ADDITIONAL ENGINEERING REVIEW OR SITE-SPECIFIC ANALYSIS.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE OR PROTECT ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- PRODUCTS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.
- ENGINEER SEAL AFFIXED HERE TO VALIDATES 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 & APPELATE 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.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

FL 10013.1

**ENGINEERING
EXPRESS**

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

FOUR SEASONS
BUILDING PRODUCTS



7815 AMERICAN WAY, GROVELAND, FL 34736
8-444-737-4652 - www.fourseasonspp.com

ILLUMA-VIEW COMPOSITE
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#10013.1)

REMARKS	DATE	DRWN	CHKD
2020 FBC (20-30693)	9/28/20	CCB	RWN
2023 FBC (23-60165)	08/03/23	MLD	CCB
2026 FBC UPDATE	08/11/26	NRD	RMS

COPYRIGHT ENGINEERING EXPRESS®

26-99219

SCALE: NTS UNLESS NOTED

1 OF 1

VISIT ECALC.IO/FOURSEASONS

FOR SITE SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
OR SCAN THIS QR CODE

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

