

TITAN SUNROOMS

EPS FOAM CORE COMPOSITE PANELS, 3.5" & 2" STEEL SKINS (1.0 LB E.P.S.)
NOT RATED FOR IMPACT RESISTANCE

VALID FOR USE OUTSIDE THE HVHZ ONLY (SEE LIMITATIONS HEREIN)

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

MAXIMUM (ASD) ALLOWABLE
DESIGN PRESSURES:

VARIES AS NOTED IN
CLEAR SPAN TABLES

DESIGN NOTES:

- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE 9TH EDITION FLORIDA BUILDING CODE (2026) AS WELL AS CURRENT VERSIONS OF THE FLORIDA RESIDENTIAL CODE, INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL RESIDENTIAL CODE. PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
- 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 NOT BE PERMITTED. CONTACT THIS FIRM FOR ALTERNATE SPAN CALCULATIONS AS MAY BE REQUIRED OR VISIT THE EMAIL/QR CODE HEREIN.
- EPS CORE COMPOSITE PANELS SHALL BE CONSTRUCTED USING ASTM A653, CS, TYPE B HOT DIP GALVANIZED G90 COATED STEEL FACINGS. EXPANDED POLYSTYRENE FOAM SHALL HAVE TYPICAL DENSITY OF 1.0 PCF. THE EPS FOAM SHALL BE ADHERED TO THE FACING WITH SOLFRE 2811 SERIES ADHESIVE (BY CHEMIQUE ADHESIVES). FABRICATION SHALL BE IN ACCORDANCE WITH APPROVED FABRICATION METHODS BY MANUFACTURER FOR ALL PANELS. REFER TO MANUFACTURER SPECS FOR MORE INFORMATION.
- IF APPLICABLE, 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.
- EPS PANEL PERFORMANCE CHARACTERISTICS FOR SELF IGNITION, FLAME SPREAD AND SMOKE DENSITY HAVE BEEN QUALIFIED THROUGH APPLICABLE ASTM TEST STANDARDS AND SHALL BE PROVIDED BY THE MANUFACTURER AS REQUIRED.
- DESIGN PRESSURES AS NOTED HEREIN ARE BASED ON A MAXIMUM TESTED PRESSURE DIVIDED BY A 2.0 FACTOR OF SAFETY. FOR ALTERNATE SAFETY FACTORS, SPANS SHALL BE ADJUSTED ACCORDINGLY.

TERMINOLOGY:

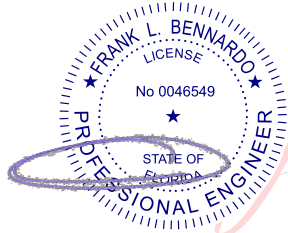
THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL:
"E.P.S." FOR "EXPANDED POLYSTYRENE", "INC." FOR "INCORPORATION", "CORP." FOR "CORPORATION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "ASTM" FOR "AMERICAN SOCIETY FOR TESTING AND MATERIALS", "CONN" FOR "CONNECTION", "EMBED" FOR "EMBEDMENT", "DIST." FOR "DISTANCE", "GA" FOR "GAUGE", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "N.T.S." FOR "NOT TO SCALE", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft²)", "SPECS" FOR "SPECIFICATIONS", "&" FOR "AND", "MAX" FOR "MAXIMUM", "W/" FOR "WITH", "EXIST" FOR "EXISTING", "STRUCT" FOR "STRUCTURE", "CONC." FOR "CONCRETE". CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

GENERAL NOTES:

- THIS SPECIFICATION HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 9TH EDITION FLORIDA BUILDING CODE (2026).
- FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ) ONLY.
- CONTRACTOR 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.
- 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.
- 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. THIS DOCUMENT ALONE IS NOT INTENDED FOR PERMIT.
- THE CONTRACTOR 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 LICENSED ENGINEER OR REGISTERED ARCHITECT.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 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 & 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.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- 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.

FRANK L. BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 19, 2026



Digitally signed by
Frank Bennardo
Date: 2026.08.19
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# SHEET	DESCRIPTION
1	COVER SHEET
2	TYP. DETAILS & CLEAR SPAN TABLE

FL 39289.1

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TITAN SUNROOMS

8188 ARMSTRONG RD.

MILTON, FL 32583

(321) 690-1788

EPS FOAM CORE COMPOSITE PANELS, 3.5" & 2" STEEL SKINS (1.0 LB E.P.S.)
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL #39289.1)

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (21-39291)	RWN	RWN	05/05/21
PREV. SUBMITTAL (23-67162)	MRT	RWN	10/18/23
2026 FBC UPDATE	AEG	RS	08/14/26

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SCALE: NTS UNLESS NOTED

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VISIT **ECALC.IO/TITAN**

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

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FOR ADDITIONAL PLANS, REPORTS & RESOURCES



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PE# 0046549 CA# 9885

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FRANK L. BENNARDO

PROFESSIONAL ENGINEER

STATE OF FLORIDA

License No 0046549

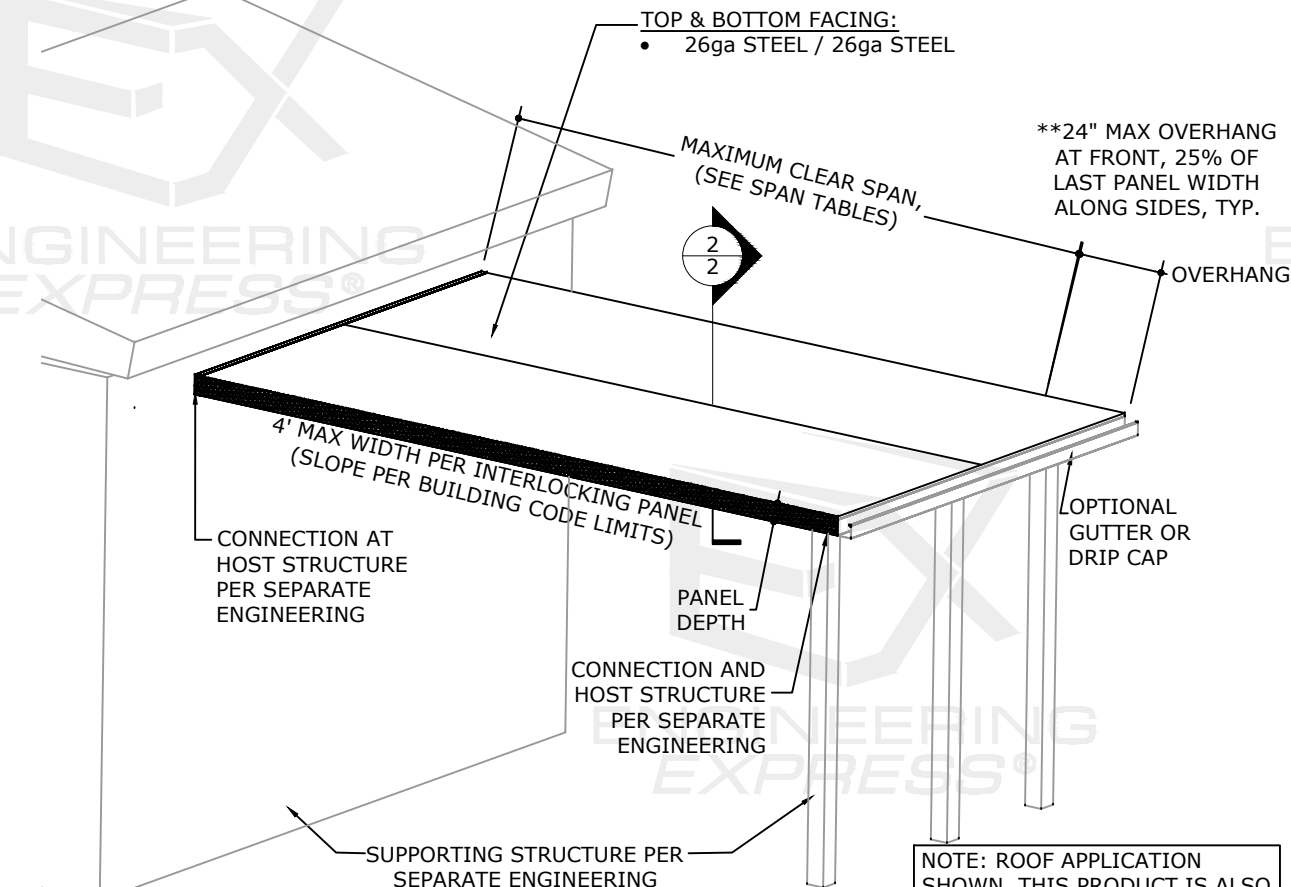
SIGNED: 08/19/2026

AUGUST 19, 2026

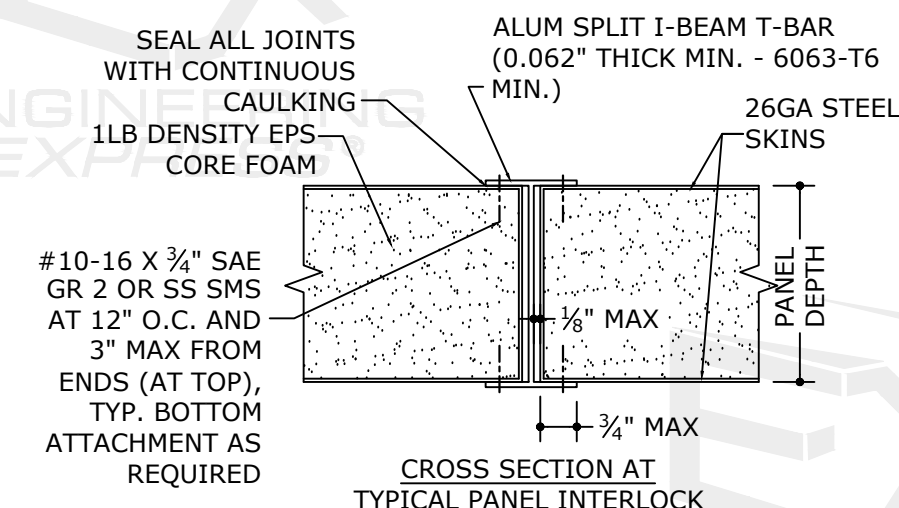
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MAXIMUM ALLOWABLE CLEAR SPAN TABLE:

Total Load* (+/-)	Deflection Limit (L/...)	3.5" Panels		2" Panels	
		26ga Steel Skin HORIZONTAL	26ga Steel Skin VERTICAL	26ga Steel Skin HORIZONTAL	26ga Steel Skin VERTICAL
10.0 PSF	80	8.00 ft	8.00 ft	8.00 ft	8.00 ft
10.0 PSF	120	8.00 ft	8.00 ft	8.00 ft	8.00 ft
10.0 PSF	180	8.00 ft	8.00 ft	8.00 ft	8.00 ft
10.0 PSF	240	8.00 ft	8.00 ft	8.00 ft	8.00 ft
15.0 PSF	80	8.00 ft	8.00 ft	8.00 ft	8.00 ft
15.0 PSF	120	8.00 ft	8.00 ft	8.00 ft	8.00 ft
15.0 PSF	180	8.00 ft	8.00 ft	8.00 ft	8.00 ft
15.0 PSF	240	8.00 ft	8.00 ft	8.00 ft	8.00 ft
18.8 PSF	80	8.00 ft	8.00 ft	8.00 ft	8.00 ft
18.8 PSF	120	8.00 ft	8.00 ft	8.00 ft	8.00 ft
18.8 PSF	180	8.00 ft	8.00 ft	8.00 ft	8.00 ft
18.8 PSF	240	8.00 ft	8.00 ft	8.00 ft	8.00 ft
20.0 PSF	80	8.00 ft	8.00 ft		8.00 ft
20.0 PSF	120	8.00 ft	8.00 ft		8.00 ft
20.0 PSF	180	8.00 ft	8.00 ft		8.00 ft
20.0 PSF	240	8.00 ft	8.00 ft		8.00 ft
25.0 PSF	80	8.00 ft	8.00 ft		8.00 ft
25.0 PSF	120	8.00 ft	8.00 ft		8.00 ft
25.0 PSF	180	8.00 ft	8.00 ft		8.00 ft
25.0 PSF	240	8.00 ft	8.00 ft		8.00 ft
28.1 PSF	80	8.00 ft	8.00 ft		8.00 ft
28.1 PSF	120	8.00 ft	8.00 ft		8.00 ft
28.1 PSF	180	8.00 ft	8.00 ft		8.00 ft
28.1 PSF	240	8.00 ft	8.00 ft		8.00 ft
30.0 PSF	80		8.00 ft		
30.0 PSF	120		8.00 ft		
30.0 PSF	180		8.00 ft		
30.0 PSF	240		8.00 ft		
35.0 PSF	80		8.00 ft		
35.0 PSF	120		8.00 ft		
35.0 PSF	180		8.00 ft		
35.0 PSF	240		8.00 ft		
37.5 PSF	80		8.00 ft		
37.5 PSF	120		8.00 ft		
37.5 PSF	180		8.00 ft		
37.5 PSF	240		8.00 ft		



1 CLEAR SPAN ISOMETRIC
2 N.T.S. TYPICAL USE EXAMPLE, MAY VARY



2 PANEL INTERLOCK DETAIL
2 N.T.S. DETAIL

CLEAR SPAN TABLE USE INSTRUCTIONS:

1. DETERMINE TYPE OF ENCLOSURE TO BE COVERED (ENCLOSED, SCREENED WALLS, OR OPEN STRUCTURE). USE QR CODE/WEB ADDRESS FOR HELP.
 2. "HORIZONTAL" SPAN COLUMNS INTENDED FOR USE IN ROOF APPLICATIONS.
 3. "VERTICAL" SPAN COLUMNS INTENDED FOR USE IN WALL APPLICATIONS
 4. DETERMINE THE SITE SPECIFIC REQUIRED DESIGN PRESSURE PROVIDED BY SEPARATE ENGINEERING BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.
 5. FIND ALLOWABLE COMPOSITE PANEL CLEAR SPAN IN TABLES FOR APPROPRIATE PANEL DEPTH, FACING THICKNESS SELECTED.
 6. A 2PSF PANEL DEAD LOAD HAS BEEN CONSIDERED IN THESE TABLES (ROOF ONLY).
 6. INDICATES VALUES NOT VALID FOR USE.
- VALUES ARE UNIFORMLY DISTRIBUTED LOAD. FOR NON-LINEAR LOADS SUCH AS SNOW DRIFT, SITE SPECIFIC RESULTS SHALL BE CONVERTED TO AN EQUIVALENT UNIFORM LOAD FOR TABLE COMPARISON.
- *TOTAL LOAD = SUM OF ALL LOADS (WIND, SNOW, LIVE, DEAD, ETC.) ACTING IN THE WORST CASE LOAD COMBINATION AS DETERMINED PER SEPARATE ENGINEERING.

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2 OF 2