

ELITE ALUMINUM CORPORATION

EPS FOAM CORE COMPOSITE ROOF PANELS

OSB / ALUMINUM SKIN

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.

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 FLORIDA BUILDING CODE NINTH EDITION (2026) AND ASCE 7-22.
- SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH THE GOVERNING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN, WHICH HAVE BEEN CALCULATED PER ALLOWABLE STRESS DESIGN METHODOLOGY.
- EPS CORE COMPOSITE PANELS SHALL BE CONSTRUCTED USING TYPE 3105-H154 ALUMINUM & 1/2" ORIENTED STRAND BOARD (OSB) FACINGS, 1.0 PCF EPS. THE EPS FOAM SHALL BE ADHERED TO THE FACINGS WITH ISOGRIP SP 2020 ADHESIVE (BY ASHLAND SPECIALTY). FABRICATION SHALL BE IN ACCORDANCE WITH APPROVED FABRICATION METHODS BY MANUFACTURER FOR ALL PANELS.
- PANEL DEAD LOADS (EXCLUSIVE OF WEATHER-RESISTANT ROOFING MATERIALS) HAVE BEEN FACTORED INTO CALCULATIONS FOR GRAVITY LOADS AS WELL AS CALCULATIONS FOR PANEL PROPERTIES. FOR UPLIFT CALCULATIONS, USE ONLINE TOOL FOUND BY SCANNING THE QR CODE BELOW OR BY VISITING THE URL.

GENERAL NOTES:

- 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.
- 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 ENGINEER FOR ALTERNATE SPAN CALCULATIONS AS MAY BE REQUIRED.
- 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 OR PROTECT ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 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.
- 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.
- PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
- 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.
- 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.

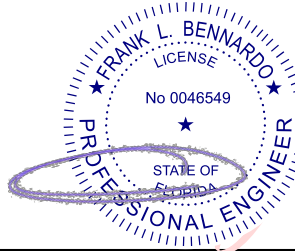
SHEET INDEX	
# SHEET	DESCRIPTION
1	COVER SHEET
2	DESIGN DETAILS & SECTIONS

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL:
"EPS" FOR "EXPANDED POLYSTYRENE", "U.N.O." FOR "UNLESS NOTED OTHERWISE", "FBC" FOR "FLORIDA BUILDING CODE", "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)", "KSI" FOR "KILOPOUNDS PER SQUARE INCH (klb/in²)", "SPECS" FOR "SPECIFICATIONS", "&" FOR "AND", "MAX" FOR "MAXIMUM", "W/" FOR "WITH", "EXIST." FOR "EXISTING", "STRUCT." FOR "STRUCTURE", "SHT" FOR "SHEET", "REF" FOR "REFERENCE".
CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

JULY 31, 2026



Digitally signed by
Frank Bennardo
Date: 2026.08.18
13:47:50 -04'00'

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Elite Aluminum
Corporation

4650 Lyons Technology Parkway
Coconut Creek, FL 33073

EPS Foam Core Composite Roof Panels
OSB / Aluminum Skin

FBC 9TH ED. (2026) | FLORIDA STATEWIDE APPROVAL

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-29649)	CCB	RWN	09/16/20
PREV. SUBMITTAL (23-59945)	MRT	RWN	08/16/23
2026 FBC UPDATE	AEG	RS	07/31/26

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SCALE: NTS UNLESS NOTED

1 OF 2

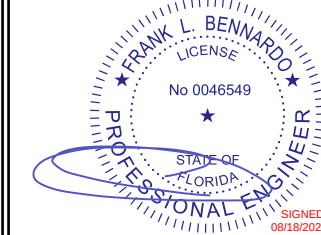
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FOR SITE-SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
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AS NOTED IN CLEAR
SPAN TABLES



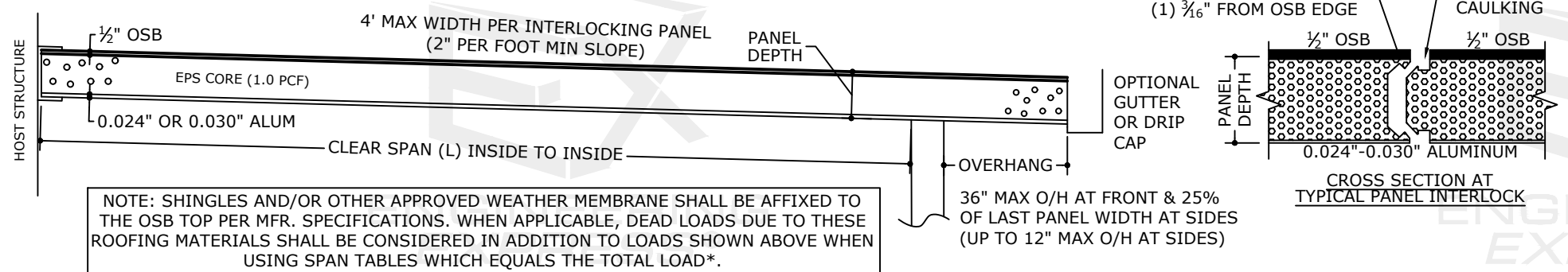
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Total Load*	Deflection Limit (L/...)	4" Panels (Depth)		6" Panels (Depth)	
		OSB / 0.024" Alum Skin 1-LB EPS	OSB / 0.030" Alum Skin 1-LB EPS	OSB / 0.024" Alum Skin 1-LB EPS	OSB / 0.030" Alum Skin 1-LB EPS
50 PSF	80	11'-8"	12'-8"	15'-1"	16'-3"
	120	10'-2"	11'-1"	13'-2"	14'-3"
	180	8'-11"	9'-8"	11'-6"	12'-5"
	240	8'-1"	8'-9"	10'-6"	11'-3"
55 PSF	80	11'-4"	12'-3"	14'-8"	15'-9"
	120	9'-10"	10'-9"	12'-9"	13'-9"
	180	8'-7"	9'-4"	11'-2"	12'-0"
	240	7'-10"	8'-6"	10'-2"	10'-11"
60 PSF	80	10'-10"	11'-6"	14'-3"	15'-4"
	120	9'-7"	10'-5"	12'-5"	13'-5"
	180	8'-4"	9'-1"	10'-10"	11'-8"
	240	7'-7"	8'-3"	9'-10"	10'-7"
65 PSF	80	10'-0"	10'-7"	13'-10"	14'-11"
	120	9'-4"	10'-2"	12'-1"	13'-0"
	180	8'-2"	8'-10"	10'-7"	11'-5"
	240	7'-5"	8'-1"	9'-7"	10'-4"
70 PSF	80	9'-4"	9'-10"	13'-5"	14'-0"
	120	9'-1"	9'-10"	11'-10"	12'-9"
	180	7'-11"	8'-8"	10'-4"	11'-1"
	240	7'-3"	7'-10"	9'-4"	10'-1"
75 PSF	80	8'-8"	9'-2"	12'-11"	13'-1"
	120	8'-8"	9'-2"	11'-6"	12'-5"
	180	7'-9"	8'-5"	10'-1"	10'-10"
	240	7'-1"	7'-8"	9'-2"	9'-10"
80 PSF	80	8'-2"	8'-7"	12'-6"	12'-3"
	120	8'-2"	8'-7"	11'-3"	12'-2"
	180	7'-7"	8'-3"	9'-10"	10'-7"
	240	6'-11"	7'-6"	8'-11"	9'-8"

1. FIND ALLOWABLE COMPOSITE PANEL CLEAR SPAN IN TABLE FOR APPROPRIATE PANEL DEPTH, FACING THICKNESS, AND EPS CORE DENSITY SELECTED.
2. ANCHOR COMPOSITE PANELS TO EXISTING HOST STRUCTURE AND EXISTING SUPPORTING MEMBERS PER SEPARATE CERTIFICATION.

EPS ROOF PANEL SPAN DETAIL:



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