Product Approval
USER: Public User

FL #	FL7621-R4
Application Type	Revision
Code Version	2017
Application Status	Approved
Comments	
Archived	
Product Manufacturer	Elite Aluminum Corporation
Address/Phone/Email	4650 Lyons Technology Parkway Coconut Creek, FL 33073 (954) 949-3200 dk@dokimengineering.net
Authorized Signature	Frank Bennardo frank@engineeringexpress.com
Technical Representative Address/Phone/Email	Bruce Peacock 4650 Lyons Technology Parkway Coconut Creek, FL 33073 (954) 949-3200 bpeacock@elitealuminum.com
Quality Assurance Representative Address/Phone/Email	
Category	Roofing
Subcategory	Products Introduced as a Result of New Technology
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Frank L. Bennardo, P.E.
Florida License	PE-0046549
Quality Assurance Entity	QAI Laboratories
Quality Assurance Contract Expiration Date	04/30/2021
Validated By	Troy Bishop, P.E. Validation Checklist - Hardcopy Received
Certificate of Independence	FL7621_R4_COI_Indep.pdf
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect FL7621_R4_Equiv_Equiv.pdf
Sections from the Code	104.11.2 1708.3

Product Approval Method	Method 2 Option B
Date Submitted	08/18/2017
Date Validated	08/18/2017
Date Pending FBC Approval	08/23/2017
Date Approved	10/10/2017

Summary of Products

FL #	Model, Number or Name	Description
7621.1	OSB / Aluminum Skin	EPS Foam Core Composite Roof Panels

Limits of Use
Approved for use in HVHZ: No
Approved for use outside HVHZ: Yes
Impact Resistant: No
Design Pressure: N/A
Other: For outdoor patio construction only. For use outside the HVHZ only. See installation instructions for allowable span/load combinations.

Installation Instructions
FL7621_R4_II_Dwg.pdf
Verified By: Frank L. Bennardo, P.E. PE0046549
Created by Independent Third Party: Yes

Evaluation Reports
FL7621_R4_AE_4in_Test_Reports.pdf
FL7621_R4_AE_6in_Test_Reports.pdf
FL7621_R4_AE_Eval.pdf
Created by Independent Third Party: Yes

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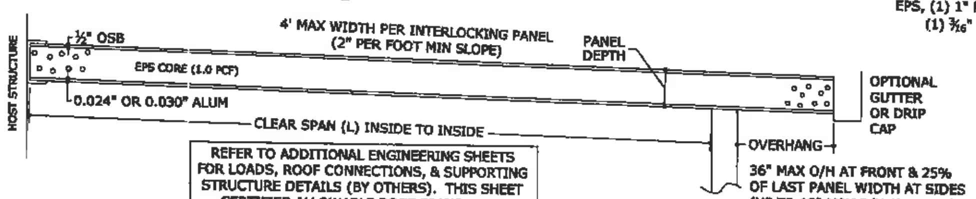
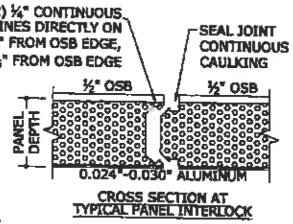
EPS FOAM CORE COMPOSITE ROOF PANELS
OSB / ALUMINUM SKIN

EPS ROOF PANEL SPAN DETAIL:



REFER TO ADDITIONAL ENGINEERING SHEETS FOR LOADS, ROOF CONNECTIONS, & SUPPORTING STRUCTURE DETAILS (BY OTHERS). THIS SHEET CERTIFIES ALLOWABLE ROOF SPANS ONLY.



CROSS SECTION AT TYPICAL PANEL INTERLOCK

NOTE: SHINGLES AND/OR OTHER APPROVED WEATHER MEMBRANE SHALL BE AFFIXED TO THE OSB TOP PER MFR. SPECIFICATIONS. DEAD LOADS DUE TO THESE ROOFING MATERIALS SHALL BE CONSIDERED IN ADDITION TO LOADS SHOWN ABOVE WHEN USING SPAN TABLES.

TABLE 1: OPEN & SCREENED ENCLOSURES MAXIMUM ULTIMATE CLEAR SPAN TABLE:

Wind Speed	Expo-sure	Ultimate Live Load &/or Uplift	Deflection Limit (L/...)	4" Panels		6" Panels	
				0.024" Alum Skin 1-LB EPS	0.030" Alum Skin 1-LB EPS	0.024" Alum Skin 1-LB EPS	0.030" Alum Skin 1-LB EPS
110 MPH	B	15 PSF	120	18'-0"	20'-0"	22'-0"	24'-0"
110 MPH	C	17 PSF	120	17'-6"	19'-0"	22'-0"	24'-0"
110 MPH	D	22 PSF	120	16'-3"	17'-8"	21'-1"	22'-6"
120 MPH	B	18 PSF	120	17'-4"	18'-8"	22'-0"	24'-0"
120 MPH	C	20 PSF	120	16'-5"	17'-10"	21'-4"	22'-12"
120 MPH	D	25 PSF	120	15'-5"	16'-9"	19'-12"	21'-6"
130 MPH	B	20 PSF	120	16'-5"	17'-10"	21'-3"	22'-11"
130 MPH	C	23 PSF	120	15'-7"	16'-11"	20'-2"	21'-8"
130 MPH	D	28 PSF	120	14'-7"	15'-10"	18'-10"	20'-4"
140 MPH	B	23 PSF	120	15'-8"	16'-12"	20'-3"	21'-10"
140 MPH	C	26 PSF	120	14'-9"	16'-0"	19'-1"	20'-7"
140 MPH	D	33 PSF	120	13'-11"	15'-1"	17'-12"	19'-5"
150 MPH	B	25 PSF	120	15'-3"	16'-6"	19'-8"	21'-3"
150 MPH	C	32 PSF	120	14'-2"	15'-5"	18'-4"	19'-9"
150 MPH	D	38 PSF	120	13'-4"	14'-5"	17'-3"	18'-7"
156 MPH	B	28 PSF	120	14'-8"	15'-11"	18'-12"	20'-5"
156 MPH	C	35 PSF	120	13'-10"	14'-12"	17'-10"	19'-3"
156 MPH	D	42 PSF	120	12'-11"	14'-1"	16'-9"	18'-1"
160 MPH	B	30 PSF	120	14'-4"	15'-7"	18'-7"	19'-12"
160 MPH	C	37 PSF	120	13'-7"	14'-8"	17'-7"	18'-11"
160 MPH	D	43 PSF	120	12'-9"	13'-10"	16'-6"	17'-9"
165 MPH	B	32 PSF	120	14'-1"	15'-4"	18'-3"	19'-8"
165 MPH	C	38 PSF	120	13'-4"	14'-5"	17'-3"	18'-7"
165 MPH	C	47 PSF	120	12'-6"	13'-7"	16'-2"	17'-5"
170 MPH	B	33 PSF	120	13'-10"	15'-1"	17'-12"	19'-4"
170 MPH	C	40 PSF	120	13'-1"	14'-2"	16'-11"	18'-3"
170 MPH	D	48 PSF	120	12'-3"	13'-3"	15'-10"	17'-1"
170 MPH †	C	50 PSF	80	12'-0"	12'-0"	12'-0"	12'-0"
170 MPH	C	50 PSF	120	12'-1"	13'-1"	15'-8"	16'-10"
170 MPH †	C	50 PSF	180	10'-7"	11'-5"	13'-8"	14'-9"
175 MPH †	C	50 PSF	80	12'-0"	12'-0"	12'-0"	12'-0"
175 MPH	C	50 PSF	120	12'-1"	13'-1"	15'-8"	16'-10"
175 MPH †	C	50 PSF	180	10'-7"	11'-5"	13'-8"	14'-9"
175 MPH †	D	52 PSF	80	12'-0"	12'-0"	12'-0"	12'-0"
175 MPH	D	52 PSF	120	12'-0"	13'-1"	15'-7"	16'-9"
175 MPH †	D	52 PSF	180	10'-6"	11'-5"	13'-7"	14'-8"

CLEAR SPAN TABLES DIRECTIVE:

1. CHOOSE TYPE OF ENCLOSURE TO BE COVERED (SCREENED WALLS, OR FULLY ENCLOSED).
2. VERIFY APPROPRIATE ALLOWABLE LIVE LOAD, WIND SPEED AND EXPOSURE CATEGORY WITH GOVERNING MUNICIPALITY AND BUILDING CODES IN EFFECT FOR THE PROJECT LOCATION USING FLORIDA BUILDING CODE.
3. FIND ALLOWABLE COMPOSITE PANEL CLEAR SPAN IN TABLES FOR APPROPRIATE PANEL DEPTH, FACING THICKNESS, AND EPS CORE DENSITY SELECTED.
4. ANCHOR COMPOSITE PANELS TO EXISTING HOST STRUCTURE AND EXISTING SUPPORTING MEMBERS PER SEPARATE CERTIFICATION.

DEFLECTION NOTES:

1. USE L/120 FOR ALL MEMBERS SUPPORTING ROOFS OVER AN OPEN OR SCREEN-WALLED ROOM.
2. USE L/180 FOR ALL MEMBERS SUPPORTING ROOFS WITH A NON-PLASTERED CEILING OVER AN ENCLOSED ROOM.
3. USE L/240 FOR ALL MEMBERS SUPPORTING ROOFS WITH A PLASTERED CEILING OVER AN ENCLOSED ROOM, PER FLORIDA BUILDING CODE SIXTH EDITION (2017) TABLE 1604.3.

TABLE 1 NOTES:

1. THE PRESSURE VALUES LISTED IN THIS TABLE ARE ULTIMATE PRESSURES AND SHALL BE USED ONLY WHEN ULTIMATE PRESSURES ARE GIVEN FOR A SITE SPECIFIC INSTALLATION. SEE TABLE 3 FOR CORRESPONDING ALLOWABLE PRESSURES AND SPANS (ULTIMATE PRESSURE = ALLOWABLE PRESSURE * 1.67)
2. DEFLECTION LIMIT= L/120, MAXIMUM ALLOWABLE ROOF SLOPE SHALL BE 3" MAX PER FOOT (3:12).
3. PANEL DEAD LOADS HAVE BEEN FACTORED INTO CALCULATIONS FOR GRAVITY LOADS AS WELL AS CALCULATIONS FOR PANEL PROPERTIES.
4. 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).
5. (†) INDICATES ROWS FOR USE WITHIN THE HVHZ ONLY. DEFLECTION LIMITS CONSIDERED FOR USE IN THE HVHZ ARE:
   - 5.1. L/80 FOR SPANS ≤ 12'-0"
   - 5.2. L/180 FOR SPANS > 12'-0"

MAXIMUM ALLOWABLE DESIGN PRESSURES:

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 GOVERNING CODE. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-10 AND CHAPTER 1609 OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017) SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

GENERAL NOTES:

1. THIS SPECIFICATION HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017) FOR USE OUTSIDE 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 FLORIDA BUILDING CODE. 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.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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..
8. THE CONTRACTOR IS RESPONSIBLE TO INSULATE OR PROTECT ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
9. 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.
10. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
11. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

TABLE VALUE DERIVATIONS:

PANEL PROPERTIES:

1. PANEL STRUCTURAL PROPERTIES DERIVED FROM CERTIFIED TEST REPORTS Nos. HETI-05-2025, -05-2026, -05-2027, -05-2028, -05-2032, -05-2033, -05-2034, -05-2035 BY HURRICANE ENGINEERING & TESTING, Inc.
2. PANEL DEAD LOADS (EXCLUSIVE OF WEATHER-RESISTANT ROOFING MATERIALS) HAVE BEEN FACTORED INTO CALCULATIONS FOR GRAVITY LOADS AS WELL AS CALCULATIONS FOR PANEL PROPERTIES.

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08/18/2017
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EPS FOAM CORE COMPOSITE ROOF PANELS
OSB / ALUMINUM SKIN
FLORIDA STATEWIDE APPROVAL-FL#7621.1

14-1441
SCALE: N.T.S.
PAGE DESCRIPTION:

TABLE 2: ENCLOSED STRUCTURES
MAXIMUM ULTIMATE CLEAR SPAN TABLES:

Wind Speed	Exposure	Ultimate Live Load &/or Uplift	Deflection Limit (L/...)	4" Panels		6" Panels	
				0.024" Alum Skin 1-LB EPS	0.030" Alum Skin 1-LB EPS	0.024" Alum Skin 1-LB EPS	0.030" Alum Skin 1-LB EPS
100 MPH	B	22 PSF	120	16'-1"	17'-8"	20'-11"	22'-6"
100 MPH	B	22 PSF	180	14'-1"	15'-4"	18'-3"	19'-6"
100 MPH	B	22 PSF	240	12'-10"	13'-11"	16'-7"	17'-10"
100 MPH	C	27 PSF	120	15'-2"	16'-5"	19'-7"	21'-2"
100 MPH	C	27 PSF	180	13'-3"	14'-4"	17'-1"	18'-5"
100 MPH	C	27 PSF	240	12'-0"	13'-1"	15'-7"	16'-8"
100 MPH	D	32 PSF	120	14'-2"	15'-5"	18'-4"	19'-10"
100 MPH	D	32 PSF	180	12'-5"	13'-5"	16'-1"	17'-4"
100 MPH	D	32 PSF	240	11'-3"	12'-3"	14'-7"	15'-9"
110 MPH	B	27 PSF	120	15'-1"	16'-5"	19'-7"	21'-1"
110 MPH	B	27 PSF	180	13'-2"	14'-4"	17'-1"	18'-5"
110 MPH	B	27 PSF	240	11'-12"	13'-0"	15'-6"	16'-9"
110 MPH	C	32 PSF	120	14'-2"	15'-5"	18'-4"	19'-10"
110 MPH	C	32 PSF	180	12'-5"	13'-5"	16'-1"	17'-4"
110 MPH	C	32 PSF	240	11'-3"	12'-3"	14'-7"	15'-9"
110 MPH	D	38 PSF	120	13'-4"	14'-5"	17'-3"	18'-7"
110 MPH	D	38 PSF	180	11'-7"	12'-7"	15'-1"	16'-3"
110 MPH	D	38 PSF	240	10'-7"	11'-5"	13'-8"	14'-8"
120 MPH	B	32 PSF	120	14'-3"	15'-6"	18'-6"	19'-11"
120 MPH	B	32 PSF	180	12'-6"	13'-6"	16'-2"	17'-5"
120 MPH	B	32 PSF	240	11'-4"	12'-4"	14'-8"	15'-10"
120 MPH	C	37 PSF	120	13'-5"	14'-7"	17'-4"	18'-8"
120 MPH	C	37 PSF	180	11'-8"	12'-8"	15'-2"	16'-4"
120 MPH	C	37 PSF	240	10'-8"	11'-7"	13'-9"	14'-10"
120 MPH	D	45 PSF	120	12'-7"	13'-8"	16'-3"	17'-6"
120 MPH	D	45 PSF	180	10'-12"	11'-11"	14'-3"	15'-4"
120 MPH	D	45 PSF	240	9'-12"	10'-10"	12'-11"	13'-11"
130 MPH	B	37 PSF	120	13'-6"	14'-8"	17'-6"	18'-11"
130 MPH	B	37 PSF	180	11'-10"	12'-10"	15'-4"	16'-5"
130 MPH	B	37 PSF	240	10'-9"	11'-8"	13'-11"	14'-12"
130 MPH	C	43 PSF	120	12'-8"	13'-9"	16'-5"	17'-9"
130 MPH	C	43 PSF	180	11'-1"	12'-0"	14'-4"	15'-6"
130 MPH	C	43 PSF	240	10'-1"	10'-11"	13'-1"	14'-1"
130 MPH	D	53 PSF	120	11'-11"	12'-11"	15'-5"	16'-7"
130 MPH	D	53 PSF	180	10'-5"	11'-3"	13'-6"	14'-6"
130 MPH	D	53 PSF	240	9'-5"	10'-3"	12'-3"	13'-2"
140 MPH	B	42 PSF	120	12'-11"	13'-12"	16'-8"	17'-12"
140 MPH	B	42 PSF	180	11'-3"	12'-3"	14'-7"	15'-8"
140 MPH	B	42 PSF	240	10'-3"	11'-1"	13'-3"	14'-3"
140 MPH	C	50 PSF	120	12'-1"	13'-2"	15'-8"	16'-10"
140 MPH	C	50 PSF	180	10'-7"	11'-5"	13'-8"	14'-9"
140 MPH	C	50 PSF	240	9'-7"	10'-5"	12'-6"	13'-5"
140 MPH	D	62 PSF	120	11'-4"	12'-4"	14'-8"	15'-10"
140 MPH	D	62 PSF	180	9'-11"	10'-8"	12'-10"	13'-10"
140 MPH	D	62 PSF	240	8'-12"	9'-8"	11'-8"	12'-7"

TABLE 2 CONT: ENCLOSED STRUCTURES
MAXIMUM ULTIMATE CLEAR SPAN TABLES:

Wind Speed	Exposure	Ultimate Live Load &/or Uplift	Deflection Limit (L/...)	4" Panels		6" Panels	
				0.024" Alum Skin 1-LB EPS	0.030" Alum Skin 1-LB EPS	0.024" Alum Skin 1-LB EPS	0.030" Alum Skin 1-LB EPS
150 MPH	B	48 PSF	120	12'-4"	13'-4"	15'-11"	17'-2"
150 MPH	B	48 PSF	180	10'-8"	11'-8"	13'-11"	15'-0"
150 MPH	B	48 PSF	240	9'-8"	10'-7"	12'-6"	13'-6"
150 MPH	C	58 PSF	120	11'-7"	12'-6"	14'-11"	16'-1"
150 MPH	C	58 PSF	180	10'-1"	10'-11"	13'-1"	14'-1"
150 MPH	C	58 PSF	240	9'-2"	9'-11"	11'-10"	12'-9"
150 MPH	D	70 PSF	120	10'-10"	11'-9"	14'-0"	15'-1"
150 MPH	D	70 PSF	180	9'-6"	10'-3"	12'-3"	13'-2"
150 MPH	D	70 PSF	240	8'-7"	9'-4"	11'-1"	11'-12"
156 MPH	B	52 PSF	120	11'-12"	13'-0"	15'-6"	16'-9"
156 MPH	B	52 PSF	180	10'-8"	11'-4"	13'-7"	14'-7"
156 MPH	B	52 PSF	240	9'-6"	10'-4"	12'-4"	13'-3"
156 MPH	C	63 PSF	120	11'-3"	12'-2"	14'-7"	15'-8"
156 MPH	C	63 PSF	180	9'-10"	10'-8"	12'-9"	13'-8"
156 MPH	C	63 PSF	240	8'-11"	9'-8"	11'-7"	12'-5"
156 MPH	D	77 PSF	120	10'-8"	11'-5"	13'-8"	14'-8"
156 MPH	D	77 PSF	180	9'-2"	9'-12"	11'-11"	12'-10"
156 MPH	D	77 PSF	240	8'-4"	9'-1"	10'-10"	11'-8"
160 MPH	B	55 PSF	120	11'-9"	12'-9"	15'-3"	16'-5"
160 MPH	B	55 PSF	180	10'-3"	11'-2"	13'-4"	14'-4"
160 MPH	B	55 PSF	240	9'-4"	10'-2"	12'-1"	13'-1"
160 MPH	C	67 PSF	120	11'-1"	12'-0"	14'-4"	15'-5"
160 MPH	C	67 PSF	180	9'-8"	10'-6"	12'-6"	13'-5"
160 MPH	C	67 PSF	240	8'-9"	9'-6"	11'-4"	12'-3"
160 MPH	D	80 PSF	120	10'-4"	11'-3"	13'-5"	14'-5"
160 MPH	D	80 PSF	180	9'-1"	9'-10"	11'-9"	12'-8"
160 MPH	D	80 PSF	240	8'-3"	8'-11"	10'-8"	11'-6"
165 MPH	B	58 PSF	120	11'-6"	12'-6"	14'-11"	16'-1"
165 MPH	B	58 PSF	180	10'-1"	10'-11"	13'-1"	14'-1"
165 MPH	B	58 PSF	240	9'-2"	9'-11"	11'-10"	12'-9"
165 MPH	C	70 PSF	120	10'-10"	11'-9"	14'-0"	15'-1"
165 MPH	C	70 PSF	180	9'-5"	10'-3"	12'-3"	13'-2"
165 MPH	C	70 PSF	240	8'-7"	9'-4"	11'-1"	11'-12"
165 MPH	D	85 PSF	120	10'-2"	11'-0"	13'-2"	14'-2"
165 MPH	D	85 PSF	180	8'-10"	9'-7"	11'-6"	12'-4"
165 MPH	D	85 PSF	240	8'-1"	8'-9"	10'-6"	11'-3"
170 MPH	B	62 PSF	120	11'-4"	12'-3"	14'-8"	15'-9"
170 MPH	B	62 PSF	180	9'-10"	10'-9"	12'-9"	13'-9"
170 MPH	B	62 PSF	240	8'-12"	9'-8"	11'-7"	12'-6"
170 MPH †	C	78 PSF	80	12'-2"	13'-2"	15'-9"	16'-11"
170 MPH	C	75 PSF	120	10'-7"	11'-6"	13'-9"	14'-10"
170 MPH †	C	75 PSF	180	9'-3"	10'-1"	11'-12"	12'-11"
170 MPH	C	75 PSF	240	8'-5"	9'-2"	10'-11"	11'-9"
170 MPH †	D	90 PSF	80	11'-4"	12'-0"	12'-0"	12'-0"
170 MPH	D	90 PSF	120	9'-11"	10'-9"	12'-10"	13'-10"
170 MPH †	D	90 PSF	180	8'-8"	9'-5"	11'-3"	12'-1"
170 MPH	D	90 PSF	240	7'-11"	8'-7"	10'-3"	11'-0"
175 MPH	B	65 PSF	120	11'-1"	12'-0"	14'-4"	15'-6"
175 MPH	B	65 PSF	180	9'-8"	10'-6"	12'-7"	13'-6"
175 MPH	B	65 PSF	240	8'-10"	9'-7"	11'-5"	12'-3"
175 MPH †	C	78 PSF	80	11'-11"	12'-0"	12'-0"	12'-0"
175 MPH	C	78 PSF	120	10'-5"	11'-4"	13'-5"	14'-6"
175 MPH †	C	78 PSF	180	9'-1"	9'-10"	11'-9"	12'-8"
175 MPH	C	78 PSF	240	8'-3"	8'-12"	10'-8"	11'-6"
175 MPH †	D	95 PSF	80	11'-2"	12'-0"	12'-0"	12'-0"
175 MPH	D	95 PSF	120	9'-9"	10'-7"	12'-8"	13'-7"
175 MPH †	D	95 PSF	180	8'-6"	9'-3"	11'-0"	11'-11"

TABLE 2 NOTES:

1. THE PRESSURE VALUES LISTED IN THIS TABLE ARE ULTIMATE PRESSURES AND SHALL BE USED ONLY WHEN ULTIMATE PRESSURES ARE GIVEN FOR A SITE SPECIFIC INSTALLATION. SEE TABLE 4 FOR CORRESPONDING ALLOWABLE PRESSURES AND SPANS (ULTIMATE PRESSURE = ALLOWABLE PRESSURE * 1.67)
2. ALLOWABLE CLEAR SPAN CALCULATIONS BASED ON ASCE 7-10 FIGURE 26.5-1c, RISK CATEGORY I, 22 PSF MIN LOAD. EXP 'B' PRESSURES VALID UP TO 30' MRH. EXP 'C' & EXP 'D' PRESSURES VALID UP TO 15' MRH ONLY.
3. DEFLECTION LIMIT AS NOTED IN CLEAR SPAN TABLES, MAXIMUM ALLOWABLE ROOF SLOPE SHALL BE 3" MAX PER FOOT (3:12).
4. PANEL DEAD LOADS HAVE BEEN FACTORED INTO CALCULATIONS FOR GRAVITY LOADS AS WELL AS CALCULATIONS FOR PANEL PROPERTIES.
5. 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).
6. (†) INDICATES ROWS FOR USE WITHIN THE HVHZ ONLY. DEFLECTION LIMITS CONSIDERED FOR USE IN THE HVHZ ARE:
   - 6.1. L/80 FOR SPANS ≤ 12'-0"
   - 6.2. L/180 FOR SPANS > 12'-0"

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Building Innovation ELITE Panel Products

EPS FOAM CORE COMPOSITE ROOF PANELS
OSB / ALUMINUM SKIN
FLORIDA STATEWIDE APPROVAL-FL#7621.1

REVISIONS	DRAWN	CHKD	DATE
1ST ISSUE	CL	FLB	08/22/2016
REVISE PER "B" PRC	CL	FLB	11/14/2016
REVISION FOR 2017 FBC	CSL	TBB	12/1/2017
REVISIONS PER COMM	RWN	CSL	01/30/2014
REV PER PRC	RWN	FLB	08/16/2017

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SCALE: N.T.S.

PAGE DESCRIPTION:

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TABLE 3: OPEN & SCREENED ENCLOSURES MAXIMUM ALLOWABLE CLEAR SPAN TABLE:

Wind Speed	Expo-sure	Allowable Live Load &/or Uplift	Deflection Limit (L/...)	4" Panels		6" Panels	
				0.024" Alum Skin 1-LB EPS	0.030" Alum Skin 1-LB EPS	0.024" Alum Skin 1-LB EPS	0.030" Alum Skin 1-LB EPS
110 MPH	B	9 PSF	120	18'-0"	20'-0"	22'-0"	24'-0"
110 MPH	C	10 PSF	120	17'-8"	19'-0"	22'-0"	24'-0"
110 MPH	D	13 PSF	120	16'-3"	17'-8"	21'-1"	22'-8"
120 MPH	B	11 PSF	120	17'-4"	18'-9"	22'-0"	24'-0"
120 MPH	C	12 PSF	120	16'-5"	17'-10"	21'-4"	22'-12"
120 MPH	D	15 PSF	120	15'-5"	16'-9"	19'-12"	21'-6"
130 MPH	B	12 PSF	120	16'-5"	17'-10"	21'-3"	22'-11"
130 MPH	C	14 PSF	120	15'-7"	16'-11"	20'-2"	21'-9"
130 MPH	D	17 PSF	120	14'-7"	15'-10"	18'-10"	20'-4"
140 MPH	B	14 PSF	120	15'-8"	16'-12"	20'-3"	21'-10"
140 MPH	C	17 PSF	120	14'-9"	16'-0"	19'-1"	20'-7"
140 MPH	D	20 PSF	120	13'-11"	15'-1"	17'-12"	19'-5"
150 MPH	B	15 PSF	120	15'-3"	16'-6"	19'-9"	21'-3"
150 MPH	C	19 PSF	120	14'-2"	15'-5"	18'-4"	19'-9"
150 MPH	D	23 PSF	120	13'-4"	14'-5"	17'-3"	18'-7"
156 MPH	B	17 PSF	120	14'-8"	15'-11"	18'-12"	20'-5"
156 MPH	C	21 PSF	120	13'-10"	14'-12"	17'-10"	19'-3"
156 MPH	D	25 PSF	120	12'-11"	14'-1"	16'-9"	18'-1"
160 MPH	B	18 PSF	120	14'-4"	15'-7"	18'-7"	19'-12"
160 MPH	C	22 PSF	120	13'-7"	14'-9"	17'-7"	18'-11"
160 MPH	D	26 PSF	120	12'-9"	13'-10"	16'-6"	17'-9"
165 MPH	B	19 PSF	120	14'-1"	15'-4"	18'-3"	19'-8"
165 MPH	C	23 PSF	120	13'-4"	14'-5"	17'-3"	18'-7"
165 MPH	C	28 PSF	120	12'-6"	13'-7"	16'-2"	17'-5"
170 MPH	B	20 PSF	120	13'-10"	15'-1"	17'-12"	19'-4"
170 MPH	C	24 PSF	120	13'-1"	14'-2"	16'-11"	18'-3"
170 MPH	D	29 PSF	120	12'-3"	13'-3"	15'-10"	17'-1"
170 MPH †	C	30 PSF *	80	12'-0"	12'-0"	12'-0"	12'-0"
170 MPH	C	30 PSF *	120	12'-1"	13'-1"	15'-8"	16'-10"
170 MPH †	C	30 PSF *	180	10'-7"	11'-5"	13'-8"	14'-9"
175 MPH †	C	30 PSF *	80	12'-0"	12'-0"	12'-0"	12'-0"
175 MPH	C	30 PSF *	120	12'-1"	13'-1"	15'-8"	16'-10"
175 MPH †	C	30 PSF *	180	10'-7"	11'-5"	13'-8"	14'-9"
175 MPH †	D	31 PSF	80	12'-0"	12'-0"	12'-0"	12'-0"
175 MPH	D	31 PSF	120	12'-0"	13'-1"	15'-7"	16'-8"
175 MPH †	D	31 PSF	180	10'-6"	11'-5"	13'-7"	14'-8"

TABLE 3 NOTES:

1. CALCULATIONS BASED ON FBC SECTION 2002.4, SOLID SURFACE VERTICAL LOADS, RISK CATEGORY I, 10 PSF MIN LOAD. EXP 'B' PRESSURES VALID UP TO 30' MRH. EXP 'C' PRESSURES DERIVED USING FACTOR OF 0.86 & EXP 'D' PRESSURE DERIVED USING FACTOR OF 0.89 PER FBC TABLE 2002.4A. WIND PRESSURE VALUES FOR 156MPH EXP 'C' & 'D' & 165MPH EXP 'C' & 'D' OBTAINED USING INTERPOLATION PER ASCE 7-10 METHODOLOGY.
2. DEFLECTION LIMIT= L/120, MAXIMUM ALLOWABLE ROOF SLOPE SHALL BE 3" MAX PER FOOT (3:12).
3. PANEL DEAD LOADS HAVE BEEN FACTORED INTO CALCULATIONS FOR GRAVITY LOADS AS WELL AS CALCULATIONS FOR PANEL PROPERTIES.
4. 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).
5. (†) INDICATES ROWS FOR USE WITHIN THE HVHZ ONLY. DEFLECTION LIMITS CONSIDERED FOR USE IN THE HVHZ ARE:
   - 5.1. L/80 FOR SPANS ≤ 12'-0"
   - 5.2. L/180 FOR SPANS > 12'-0"

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EPS FOAM CORE COMPOSITE ROOF PANELS
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REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CL	FLB	08/22/08
REVISE FOR W/ FBC	RKG	CL	11/04/08
REVISION FOR 2010 FBC	CSL	TBB	12/11/11
REV 2014FBC (08-EAC-0019)	RWK	CSL	01/30/14
REV 2017 FBC	JAC	FLB	08/18/17

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PAGE DESCRIPTION:

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TABLE 4: ENCLOSED STRUCTURES MAXIMUM ALLOWABLE CLEAR SPAN TABLES:

Wind Speed	Expo-sure	Allowable Live Load &/or Uplift	Deflection Limit (L/...)	4" Panels 0.024" Alum Skin 1-LB EPS	4" Panels 0.030" Alum Skin 1-LB EPS	6" Panels 0.024" Alum Skin 1-LB EPS	6" Panels 0.030" Alum Skin 1-LB EPS
100 MPH	B	13 PSF	120	16'-1"	17'-6"	20'-11"	22'-6"
100 MPH	B	13 PSF	180	14'-1"	15'-4"	18'-3"	19'-8"
100 MPH	B	13 PSF	240	12'-10"	13'-11"	16'-7"	17'-10"
100 MPH	C	16 PSF	120	15'-2"	16'-5"	19'-7"	21'-2"
100 MPH	C	16 PSF	180	13'-3"	14'-4"	17'-1"	18'-5"
100 MPH	C	16 PSF	240	12'-0"	13'-1"	15'-7"	16'-8"
100 MPH	D	19 PSF	120	14'-2"	15'-5"	18'-4"	19'-10"
100 MPH	D	19 PSF	180	12'-5"	13'-5"	16'-1"	17'-4"
100 MPH	D	19 PSF	240	11'-3"	12'-3"	14'-7"	15'-9"
110 MPH	B	16 PSF	120	15'-1"	16'-5"	19'-7"	21'-1"
110 MPH	B	16 PSF	180	13'-2"	14'-4"	17'-1"	18'-5"
110 MPH	B	16 PSF	240	11'-12"	13'-0"	15'-6"	16'-9"
110 MPH	C	19 PSF	120	14'-2"	15'-5"	18'-4"	19'-10"
110 MPH	C	19 PSF	180	12'-5"	13'-5"	16'-1"	17'-4"
110 MPH	C	19 PSF	240	11'-3"	12'-3"	14'-7"	15'-9"
110 MPH	D	23 PSF	120	13'-4"	14'-5"	17'-3"	18'-7"
110 MPH	D	23 PSF	180	11'-7"	12'-7"	15'-1"	16'-3"
110 MPH	D	23 PSF	240	10'-7"	11'-5"	13'-8"	14'-9"
120 MPH	B	19 PSF	120	14'-3"	15'-6"	18'-6"	19'-11"
120 MPH	B	19 PSF	180	12'-6"	13'-6"	16'-2"	17'-5"
120 MPH	B	19 PSF	240	11'-4"	12'-4"	14'-8"	15'-10"
120 MPH	C	22 PSF	120	13'-5"	14'-7"	17'-4"	18'-8"
120 MPH	C	22 PSF	180	11'-8"	12'-8"	15'-2"	16'-4"
120 MPH	C	22 PSF	240	10'-8"	11'-7"	13'-9"	14'-10"
120 MPH	D	27 PSF	120	12'-7"	13'-8"	16'-3"	17'-6"
120 MPH	D	27 PSF	180	10'-12"	11'-11"	14'-2"	15'-4"
120 MPH	D	27 PSF	240	9'-12"	10'-10"	12'-11"	13'-11"
130 MPH	B	22 PSF	120	13'-6"	14'-8"	17'-6"	18'-11"
130 MPH	B	22 PSF	180	11'-10"	12'-10"	15'-4"	16'-6"
130 MPH	B	22 PSF	240	10'-9"	11'-8"	13'-11"	14'-12"
130 MPH	C	26 PSF	120	12'-8"	13'-8"	16'-5"	17'-9"
130 MPH	C	26 PSF	180	11'-1"	12'-0"	14'-4"	15'-6"
130 MPH	C	26 PSF	240	10'-1"	10'-11"	13'-1"	14'-1"
130 MPH	D	32 PSF	120	11'-11"	12'-11"	15'-5"	16'-7"
130 MPH	D	32 PSF	180	10'-5"	11'-3"	13'-6"	14'-6"
130 MPH	D	32 PSF	240	9'-5"	10'-3"	12'-3"	13'-2"
140 MPH	B	25 PSF	120	12'-11"	13'-12"	16'-8"	17'-12"
140 MPH	B	25 PSF	180	11'-3"	12'-3"	14'-7"	15'-9"
140 MPH	B	25 PSF	240	10'-3"	11'-1"	13'-3"	14'-3"
140 MPH	C	30 PSF	120	12'-1"	13'-2"	15'-8"	16'-10"
140 MPH	C	30 PSF	180	10'-7"	11'-6"	13'-8"	14'-9"
140 MPH	C	30 PSF	240	9'-7"	10'-5"	12'-5"	13'-5"
140 MPH	D	37 PSF	120	11'-4"	12'-4"	14'-8"	15'-10"
140 MPH	D	37 PSF	180	9'-11"	10'-9"	12'-10"	13'-10"
140 MPH	D	37 PSF	240	8'-12"	9'-9"	11'-8"	12'-7"

TABLE 4 CONT: ENCLOSED STRUCTURES MAXIMUM ALLOWABLE CLEAR SPAN TABLES:

Wind Speed	Expo-sure	Allowable Live Load &/or Uplift	Deflection Limit (L/...)	4" Panels 0.024" Alum Skin 1-LB EPS	4" Panels 0.030" Alum Skin 1-LB EPS	6" Panels 0.024" Alum Skin 1-LB EPS	6" Panels 0.030" Alum Skin 1-LB EPS
150 MPH	B	29 PSF	120	12'-4"	13'-4"	15'-11"	17'-2"
150 MPH	B	29 PSF	180	10'-8"	11'-8"	13'-11"	15'-0"
150 MPH	B	29 PSF	240	9'-8"	10'-7"	12'-8"	13'-8"
150 MPH	D	42 PSF	120	10'-10"	11'-9"	14'-0"	15'-1"
150 MPH	D	42 PSF	180	9'-5"	10'-3"	12'-3"	13'-2"
150 MPH	D	42 PSF	240	8'-7"	9'-4"	11'-1"	11'-12"
156 MPH	B	31 PSF	120	11'-12"	13'-0"	15'-6"	16'-9"
156 MPH	B	31 PSF	180	10'-6"	11'-4"	13'-7"	14'-7"
156 MPH	B	31 PSF	240	9'-6"	10'-4"	12'-4"	13'-3"
156 MPH	C	38 PSF	120	11'-3"	12'-2"	14'-7"	15'-8"
156 MPH	C	38 PSF	180	9'-10"	10'-8"	12'-9"	13'-8"
156 MPH	C	38 PSF	240	8'-11"	9'-8"	11'-7"	12'-5"
156 MPH	D	46 PSF	120	10'-6"	11'-5"	13'-8"	14'-8"
156 MPH	D	46 PSF	180	9'-2"	9'-12"	11'-11"	12'-10"
156 MPH	D	46 PSF	240	8'-4"	9'-1"	10'-10"	11'-8"
160 MPH	B	33 PSF	120	11'-9"	12'-9"	15'-3"	16'-5"
160 MPH	B	33 PSF	180	10'-3"	11'-2"	13'-4"	14'-4"
160 MPH	B	33 PSF	240	9'-4"	10'-2"	12'-1"	13'-1"
160 MPH	C	40 PSF	120	11'-1"	12'-0"	14'-4"	15'-5"
160 MPH	C	40 PSF	180	9'-8"	10'-6"	12'-6"	13'-6"
160 MPH	C	40 PSF	240	8'-9"	9'-6"	11'-4"	12'-3"
160 MPH	D	48 PSF	120	10'-4"	11'-3"	13'-5"	14'-6"
160 MPH	D	48 PSF	180	9'-1"	9'-10"	11'-9"	12'-8"
160 MPH	D	48 PSF	240	8'-3"	8'-11"	10'-8"	11'-6"
165 MPH	B	35 PSF	120	11'-6"	12'-6"	14'-11"	16'-1"
165 MPH	B	35 PSF	180	10'-1"	10'-11"	13'-1"	14'-1"
165 MPH	B	35 PSF	240	9'-2"	9'-11"	11'-10"	12'-9"
165 MPH	C	42 PSF	120	10'-10"	11'-9"	14'-0"	15'-1"
165 MPH	C	42 PSF	180	9'-5"	10'-3"	12'-3"	13'-2"
165 MPH	C	42 PSF	240	8'-7"	9'-4"	11'-1"	11'-12"
165 MPH	D	51 PSF	120	10'-2"	11'-0"	13'-2"	14'-2"
165 MPH	D	51 PSF	180	8'-10"	9'-7"	11'-6"	12'-4"
165 MPH	D	51 PSF	240	8'-1"	8'-9"	10'-5"	11'-3"
170 MPH	B	37 PSF	120	11'-4"	12'-3"	14'-8"	15'-9"
170 MPH	B	37 PSF	180	9'-10"	10'-8"	12'-9"	13'-9"
170 MPH	B	37 PSF	240	8'-12"	9'-9"	11'-7"	12'-6"
170 MPH †	C	45 PSF	80	12'-2"	13'-2"	15'-9"	16'-11"
170 MPH	C	45 PSF	120	10'-7"	11'-6"	13'-9"	14'-10"
170 MPH †	C	45 PSF	180	9'-3"	10'-1"	11'-12"	12'-11"
170 MPH	C	45 PSF	240	8'-5"	9'-2"	10'-11"	11'-9"
170 MPH †	D	54 PSF	80	11'-4"	12'-0"	12'-0"	12'-0"
170 MPH	D	54 PSF	120	9'-11"	10'-9"	12'-10"	13'-10"
170 MPH †	D	54 PSF	180	8'-6"	9'-5"	11'-3"	12'-1"
170 MPH	D	54 PSF	240	7'-11"	8'-7"	10'-3"	11'-0"
175 MPH	B	39 PSF	120	11'-1"	12'-0"	14'-4"	15'-6"
175 MPH	B	39 PSF	180	9'-8"	10'-6"	12'-7"	13'-6"
175 MPH	B	39 PSF	240	8'-10"	9'-7"	11'-5"	12'-3"
175 MPH †	C	47 PSF	80	11'-11"	12'-0"	12'-0"	12'-0"
175 MPH	C	47 PSF	120	10'-5"	11'-4"	13'-5"	14'-6"
175 MPH †	C	47 PSF	180	9'-1"	9'-10"	11'-9"	12'-8"
175 MPH	C	47 PSF	240	8'-3"	8'-12"	10'-8"	11'-6"
175 MPH †	D	57 PSF	80	11'-2"	12'-0"	12'-0"	12'-0"
175 MPH	D	57 PSF	120	9'-9"	10'-7"	12'-8"	13'-7"
175 MPH †	D	57 PSF	180	8'-6"	9'-3"	11'-0"	11'-11"

TABLE 4 NOTES:

1. CALCULATIONS BASED ON FBC SECTION 2002.4, SOLID SURFACE VERTICAL LOADS, RISK CATEGORY I, 10 PSF MIN LOAD. EXP 'B' PRESSURES VALID UP TO 30' MRH. EXP 'C' PRESSURES DERIVED USING FACTOR OF 0.86 & EXP 'D' PRESSURE DERIVED USING FACTOR OF 0.89 PER FBC TABLE 2002.4A. WIND PRESSURE VALUES FOR 156MPH EXP 'C' & 'D' & 165MPH EXP 'C' & 'D' OBTAINED USING INTERPOLATION PER ASCE 7-10 METHODOLOGY.
2. DEFLECTION LIMIT AS NOTED IN CLEAR SPAN TABLES, MAXIMUM ALLOWABLE ROOF SLOPE SHALL BE 3" MAX PER FOOT (3:12).
3. PANEL DEAD LOADS HAVE BEEN FACTORED INTO CALCULATIONS FOR GRAVITY LOADS AS WELL AS CALCULATIONS FOR PANEL PROPERTIES.
4. 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).
5. (†) INDICATES ROWS FOR USE WITHIN THE HVHZ ONLY. DEFLECTION LIMITS CONSIDERED FOR USE IN THE HVHZ ARE:
   - 5.1. L/80 FOR SPANS ≤ 12'-0"
   - 5.2. L/180 FOR SPANS > 12'-0"

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ELITE Panel Products — Building Innovation

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EPS FOAM CORE COMPOSITE ROOF PANELS
OSB / ALUMINUM SKIN
FLORIDA STATEWIDE APPROVAL-FL#7621.1

14-1441

SCALE: N.T.S.

PAGE DESCRIPTION:

ENGINEERING EXPRESS® EXPERT PRODUCT EVALUATION REPORT

August 18, 2017

Application Number: FL# 7621.1-R4
Project Number: 14-1441

Product Manufacturer: Elite Aluminum Corporation
Manufacturer Address: 4650 Lyons Technology Parkway
Coconut Creek, FL 33073

Product Name & Description: EPS Foam Core Composite Roof Panels
OSB / Aluminum Skin

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 2(b). The product noted above has been tested and/or evaluated as summarized herein to show compliance with Florida Building Code Sixth Edition (2017) and is, for the purpose intended, at least equivalent to that required by the Code. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or revisions.

Substantiating Data:

- **PRODUCT EVALUATION DOCUMENTS**

FLB drawing #14-1441 titled "EPS Foam Core Composite Roof Panels", sheets 1-4, prepared by Frank L. Bennardo, P.E., Inc., signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

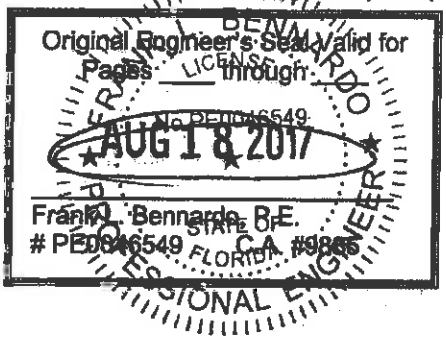
- **TEST REPORTS**
- Uniform static structural performance has been tested in accordance with Section 1708.3 of the above-referenced Florida Building Code per test standard ASTM E72-05 as evidenced in test report(s) #HETI -05-2035, #HETI -05-2028, #HETI -05-2034, #HETI -05-2027, #HETI -05-2032, #HETI -05-2026, #HETI -05-2033, #HETI -05-2025 by Hurricane Engineering & Testing, Inc. (HETI) (signed by Ivonne Ghia, P.E.).
- Metal tensile capacity has been determined in accordance with ASTM E8-01 test standard per test report(s) #HETI-05-T337 & #HETI-05-T338 by Hurricane Engineering & Testing, Inc. (HETI) (signed by Ivonne Ghia, P.E.).

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Maximum Allowable Size/Pressure Combinations

No 33% increase in allowable stress has been used in the design of each product.



Impact Resistance:

Large & Small Missile Impact Resistance has NOT been demonstrated as evidenced in previously listed test reports, and is accounted for in the engineering design of this product.

Wind Load Resistance

Each product has been designed to resist combinations of wind loads, live loads, and dead loads as indicated in the span schedule(s) on its respective Product Evaluation Document (i.e. engineering drawing).

Installation

Each product listed above shall be installed in strict compliance with its respective Product Evaluation Document (i.e. engineering drawing), along with all components noted therein.

Each product component shall be of the material specified in that product's respective Product Evaluation Document (i.e. engineering drawing).

Limitations & Conditions of Use:

Use of this product shall be in strict accordance with the Product Evaluation Document (i.e. engineering drawing) as noted herein for outdoor patio construction only.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in this product's anchor schedule. Host structure conditions which are not accounted for in this product's anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

This product has NOT been designed for use within the High Velocity Hurricane Zone (HVHZ), only outside the HVHZ.

ENGINEERING EXPRESS®

August 18, 2017

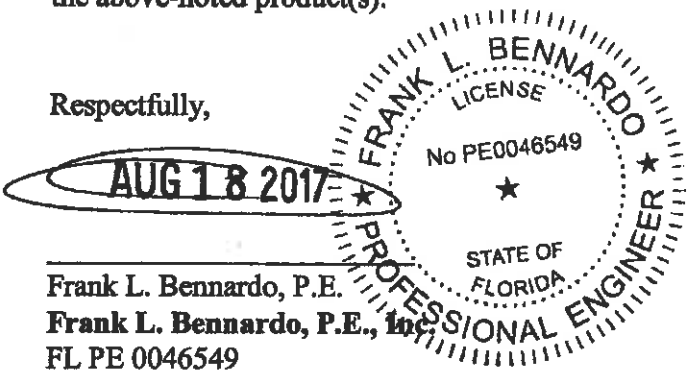
Florida Department of Business and Professional Regulation
1940 North Monroe Street, Tallahassee FL 32399

Regarding: Elite Aluminum Corporation
EPS Foam Core Composite Roof Panels
OSB / Aluminum Skin
Project #14-1441

To Whom It May Concern:

Please be advised that the below-signed engineer does not have nor will acquire a financial interest in the company manufacturing or distributing the product(s) for which an evaluation report or validation certification has been prepared, as referenced above. This engineer is not owned, operated, nor controlled by the manufacturer or distributor noted above and does not have any financial interest in any other entity involved in the approval process of the above-noted product(s).

Respectfully,



Frank L. Bennardo, P.E.
Frank L. Bennardo, P.E., Inc.
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1940 North Monroe Street, Tallahassee FL 32399

Regarding: Elite Aluminum Corporation
EPS Foam Core Composite Roof Panels
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Project #14-1441

To Whom It May Concern:

This office has reviewed test reports showing structural performance of the above-noted product. These test reports pertain to testing performed in accordance with ASTM E72-05 Standard Test Methods of Conducting Strength Tests of Panels for Building Construction. This standard has not been adopted in the Florida Building Code Sixth Edition (2017), but serves as an applicable test method in accordance with sections 104.11.2 & 1708.3 for the purpose of determining structural performance of this product.

Respectfully,

AUG 18 2017

FRANK L. BENNARDO LICENSE No PE0046549 STATE OF FLORIDA PROFESSIONAL ENGINEER

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