



# STRUCTALL BUILDING SYSTEMS

## EPS/OSB FOAM CORE ROOF PANELS - METAL SKIN

### SNAP & LOCK® SPAN TABLE PERFORMANCE EVALUATION

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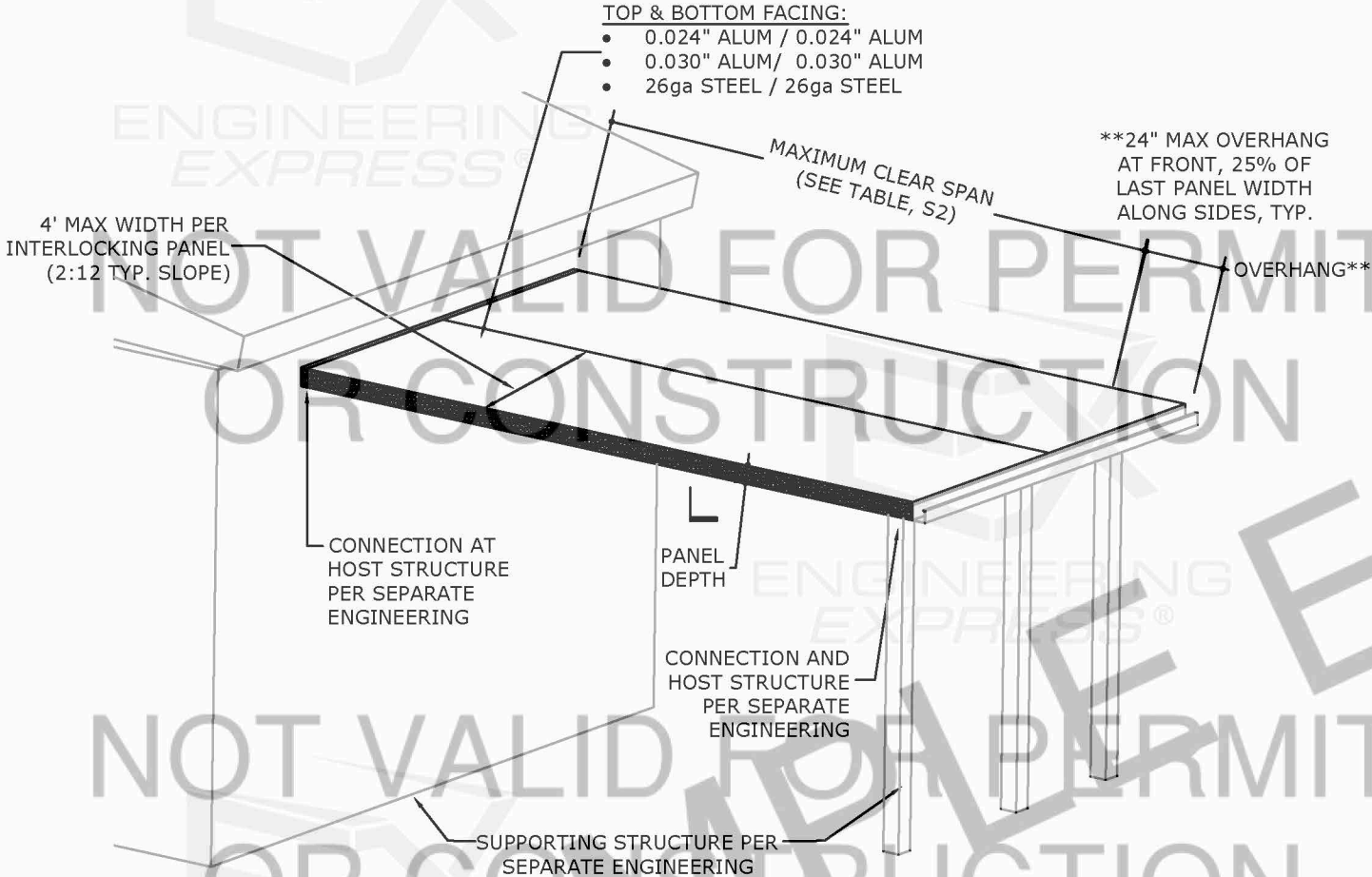
AS NOTED IN CLEAR SPAN TABLE, S2

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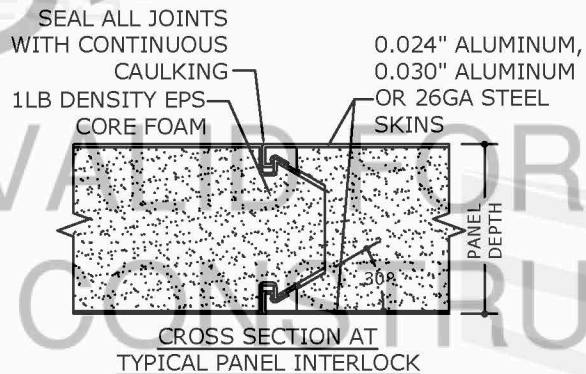
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- SEPARATE 'SITE-SPECIFIC' SEALED ENGINEERING SHALL BE REQUIRED IN ORDER TO DEVIATE FROM LOADS, DEFLECTIONS, OR SPANS CONTAINED HEREIN. LINEAR INTERPOLATION OF THE ALLOWABLE SPAN TABLES LISTED HEREIN SHALL NOT BE PERMITTED. CONTACT THIS ENGINEER FOR ALTERNATE SPAN CALCULATIONS AS MAY BE REQUIRED OR USE THE ECALC.IO LINK PROVIDED HEREIN.
- EPS CORE COMPOSITE PANELS SHALL BE CONSTRUCTED USING TYPE 3105-H254 ALUMINUM FACINGS OR 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 ALUMINUM FACING WITH MORAD M640 SERIES ADHESIVE (BY ROHM AND HAAS COMPANY). FABRICATION SHALL BE IN ACCORDANCE WITH APPROVED FABRICATION METHODS BY MANUFACTURER FOR ALL PANELS.
- IF APPLICABLE, COMPOSITE ROOF PANELS SHALL COMPLY WITH CHAPTER 7 SECTION 721, CHAPTER 8 SECTION 803, CLASS A INTERIOR FINISH, AND CHAPTER 26 SECTION 2603 OF THE FLORIDA/INTERNATIONAL BUILDING CODE.
- PANELS TO BE BY STRUCTALL BUILDING SYSTEMS ONLY.
- THIS SHEET CERTIFIES STRUCTURAL DESIGN ONLY (WATERPROOFING BY OTHERS). TOTAL SUPERIMPOSED DEAD LOAD ON ANY PANEL SHALL NOT EXCEED 5 PSF, AND THIS WEIGHT SHALL BE SUBTRACTED FROM THE LIVE LOAD ALLOWABLE VALUES IN THE PANEL ROOF SPAN CHARTS WHEN USING THIS INSTALLATION METHOD.
- EXAMPLE: IN A 30PSF WIND PRESSURE/SNOW LOAD ZONE, WITH THE ADDITION OF THE MAXIMUM ALLOWABLE 5PSF DEAD LOAD, THE MODIFIED MAXIMUM ALLOWABLE PANEL SPAN SHALL BE GOVERNED BY LOADING CRITERIA OF 35PSF.
- SEAL ALL SEAMS AND CONNECTIONS WITH STRUCTURAL GRADE ADHESIVE SEALANT (1500 PSI MIN. TENSILE LOAD STRENGTH), AND CLEAN ROOF OF ANY DIRT, GREASE, WATER OR OIL.
- DESIGN PRESSURES AS NOTED HEREIN ARE BASED ON A MAXIMUM TESTED PRESSURE DIVIDED BY A 2.0 FACTOR OF SAFETY.

#### GENERAL NOTES:

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- 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.
- 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" SECTION J.3.1 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- 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.
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1 CLEAR SPAN ISOMETRIC  
1 ISOMETRIC



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

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STRUCTURAL EPS PANEL SPANS  
PERFORMANCE EVALUATION  
FBC 7TH (2020) & 8TH (2023) EDITIONS

REMARKS	DRWN	CHKD	DATE
ORIGINAL PROJECT (P0-25316)	TT	FB	08/01/20
FBC 2023 (23-69332)	CLV	COB	11/14/23

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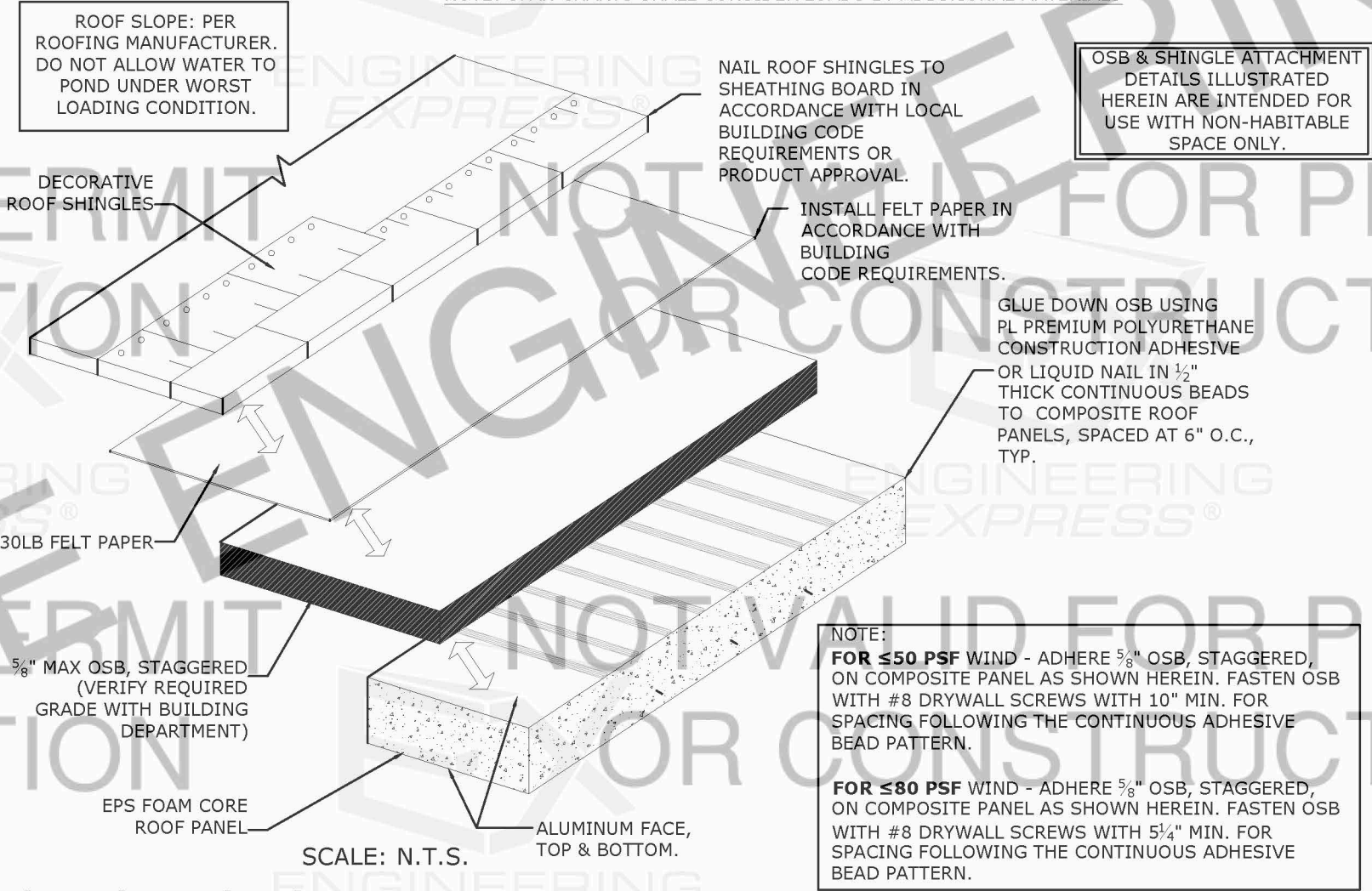
MAXIMUM ALLOWABLE CLEAR SPAN TABLE:

Total Load* w/ 5/8" Max OSB	Deflection Limit (L/...)	3" Panels		4" Panels			6" Panels		
		0.024" Alum Skin	0.030" Alum Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin
		1-LB EPS	1-LB EPS	1-LB EPS	1-LB EPS	1-LB EPS	1-LB EPS	1-LB EPS	1-LB EPS
+/- 10 PSF	80	15'-9"	16'-0"	18'-4"	19'-7"	18'-4"	20'-1"	22'-6"	22'-8"
	120	13'-11"	16'-0"	16'-5"	18'-6"	18'-4"	20'-1"	22'-6"	22'-8"
	180	12'-2"	16'-0"	14'-4"	16'-2"	17'-4"	17'-10"	20'-0"	21'-5"
	240	11'-0"	14'-8"	13'-0"	14'-8"	15'-9"	16'-2"	18'-2"	19'-5"
+/- 15 PSF	80	13'-3"	15'-0"	15'-5"	16'-6"	15'-5"	16'-11"	18'-11"	19'-1"
	120	12'-5"	15'-0"	14'-8"	16'-6"	15'-5"	16'-11"	18'-11"	19'-1"
	180	10'-10"	14'-5"	12'-9"	14'-5"	15'-5"	15'-10"	17'-10"	19'-1"
	240	9'-10"	13'-1"	11'-7"	13'-1"	14'-0"	14'-5"	16'-2"	17'-4"
+/- 20 PSF	80	11'-8"	13'-2"	13'-6"	13'-7"	13'-7"	14'-10"	16'-7"	16'-9"
	120	11'-4"	13'-2"	13'-5"	14'-6"	13'-7"	14'-10"	16'-7"	16'-9"
	180	9'-11"	13'-2"	11'-9"	13'-3"	13'-7"	14'-7"	16'-4"	16'-9"
	240	9'-0"	12'-0"	10'-8"	12'-0"	12'-10"	13'-3"	14'-10"	15'-11"
+/- 25 PSF	80	10'-6"	11'-11"	12'-3"	13'-1"	12'-3"	13'-5"	15'-0"	15'-2"
	120	10'-6"	11'-11"	12'-3"	13'-1"	12'-3"	13'-5"	15'-0"	15'-2"
	180	9'-3"	11'-11"	10'-11"	12'-4"	12'-3"	13'-5"	15'-0"	15'-2"
	240	8'-5"	11'-3"	9'-11"	11'-3"	12'-0"	12'-4"	13'-11"	14'-10"
+/- 30 PSF	80	9'-8"	10'-11"	11'-3"	12'-0"	11'-3"	12'-4"	13'-9"	13'-11"
	120	9'-8"	10'-11"	11'-3"	12'-0"	11'-3"	12'-4"	13'-9"	13'-11"
	180	8'-9"	10'-11"	10'-4"	11'-8"	11'-3"	12'-4"	13'-9"	13'-11"
	240	7'-11"	10'-7"	9'-5"	10'-7"	11'-3"	11'-8"	13'-2"	13'-11"
+/- 35 PSF	80	9'-0"	10'-2"	10'-5"	11'-2"	10'-6"	11'-5"	12'-10"	12'-11"
	120	9'-0"	10'-2"	10'-5"	11'-2"	10'-6"	11'-5"	12'-10"	12'-11"
	180	8'-4"	10'-2"	9'-10"	11'-1"	10'-6"	11'-5"	12'-10"	12'-11"
	240	7'-7"	10'-1"	8'-11"	10'-1"	10'-6"	11'-1"	12'-6"	12'-11"
+/- 40 PSF	80	8'-5"	9'-6"	9'-10"	10'-6"	9'-10"	10'-9"	12'-0"	12'-2"
	120	8'-5"	9'-6"	9'-10"	10'-6"	9'-10"	10'-9"	12'-0"	12'-2"
	180	8'-0"	9'-6"	9'-5"	10'-6"	9'-10"	10'-9"	12'-0"	12'-2"
	240	7'-3"	9'-6"	8'-7"	9'-8"	9'-10"	10'-8"	12'-0"	12'-2"
+/- 45 PSF	80			9'-3"	9'-11"	9'-3"	10'-2"	11'-4"	11'-6"
	120			9'-3"	9'-11"	9'-3"	10'-2"	11'-4"	11'-6"
	180			9'-1"	9'-11"	9'-3"	10'-2"	11'-4"	11'-6"
	240			8'-3"	9'-4"	9'-3"	10'-2"	11'-4"	11'-6"
+/- 50 PSF	80			8'-10"	9'-5"	8'-10"	9'-8"	10'-10"	10'-11"
	120			8'-10"	9'-5"	8'-10"	9'-8"	10'-10"	10'-11"
	180			8'-10"	9'-5"	8'-10"	9'-8"	10'-10"	10'-11"
	240			8'-0"	9'-0"	8'-10"	9'-8"	10'-10"	10'-11"
+/- 55 PSF	80			8'-5"	9'-0"	8'-5"	9'-3"	10'-4"	10'-5"
	120			8'-5"	9'-0"	8'-5"	9'-3"	10'-4"	10'-5"
	180			8'-5"	9'-0"	8'-5"	9'-3"	10'-4"	10'-5"
	240			7'-9"	8'-9"	8'-5"	9'-3"	10'-4"	10'-5"
+/- 60 PSF	80			8'-1"	8'-8"	8'-1"	8'-10"	9'-11"	10'-0"
	120			8'-1"	8'-8"	8'-1"	8'-10"	9'-11"	10'-0"
	180			8'-1"	8'-8"	8'-1"	8'-10"	9'-11"	10'-0"
	240			7'-6"	8'-6"	8'-1"	8'-10"	9'-11"	10'-0"
+/- 65 PSF	80			7'-6"	7'-6"	7'-9"	8'-6"	9'-6"	9'-7"
	120			7'-6"	7'-6"	7'-9"	8'-6"	9'-6"	9'-7"
	180			7'-6"	7'-6"	7'-9"	8'-6"	9'-6"	9'-7"
	240			7'-4"	7'-4"	7'-9"	8'-6"	9'-6"	9'-7"
+/- 70 PSF	80			7'-0"	7'-0"	7'-6"	8'-2"	9'-2"	9'-3"
	120			7'-0"	7'-0"	7'-6"	8'-2"	9'-2"	9'-3"
	180			7'-0"	7'-0"	7'-6"	8'-2"	9'-2"	9'-3"
	240			7'-0"	7'-0"	7'-6"	8'-2"	9'-2"	9'-3"
+/- 75 PSF	80					7'-3"	7'-11"	8'-10"	9'-0"
	120					7'-3"	7'-11"	8'-10"	9'-0"
	180					7'-3"	7'-11"	8'-10"	9'-0"
	240					7'-3"	7'-11"	8'-10"	9'-0"
+/- 80 PSF	80							8'-7"	8'-8"
	120							8'-7"	8'-8"
	180							8'-7"	8'-8"
	240							8'-7"	8'-8"

\*OSB SELF WEIGHT NOT TO EXCEED 2.08 PSF. 7/16" OSB CAN BE USED IN LIEU OF 5/8" OSB IF DESIRED

MECHANICAL APPLICATION GUIDE FOR OSB & SHINGLES TO EPS PANEL

NOTE: SPAN CHARTS SHALL CONSIDER LOADS BY ADDITIONAL MATERIALS



SHINGLE NOTES: (APPLICABLE TO THIS DETAIL ONLY)

SHINGLES MUST HAVE 0.65 OR GREATER SOLAR REFLECTANCE AS RATED BY SHINGLE MANUFACTURER.

STARTER ROWS OF SHINGLES SHALL HAVE TWO LINES AT MID TAB AREA. SHINGLE ROW INSTALLED WITH TABS FACING IN THE UPWARD DIRECTION OF THE ROOF SLOPE.

SUBSEQUENT ROWS OF SHINGLES INSTALLED WITH THE TABS FACING IN THE DOWNWARD DIRECTION OF THE ROOF SLOPE WITH ONE LINE OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA.

TABLE USE INSTRUCTIONS:

- DETERMINE TYPE OF ENCLOSURE TO BE COVERED (OPEN, SCREENED WALLS, OR FULLY ENCLOSED) AND CORRESPONDING DEFLECTION LIMIT.
- INDICATES VALUES NOT VALID FOR USE.
- THE SPANS LISTED HEREIN ARE APPLICABLE FOR NON-HABITABLE STRUCTURES ONLY. DETERMINE THE SITE SPECIFIC REQUIRED DESIGN LOAD PER BY SEPARATE ENGINEERING, CERTIFIED BY A DESIGN PROFESSIONAL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND ANY GOVERNING CODE, MUNICIPALITY, AND BUILDING CODES IN EFFECT FOR THE PROJECT LOCATION.
- \*TOTAL LOAD = SUM OF ALL LOADS (WIND, LIVE, DEAD, ETC.) ACTING IN THE WORST CASE LOAD COMBINATION.

- BASED ON THE PROJECT DESIGN CONDITIONS DETERMINED, SELECT A SUITABLE ROOFING PANEL WITH AN ALLOWABLE SPAN GREATER THAN OR EQUAL TO THE PROJECT REQUIREMENTS.
- COMPONENT FRONT CONNECTION TO SUPPORTING BEAM AND BACK CONNECTION TO HOST STRUCTURE TO BE DETERMINED SEPARATELY ON A SITE SPECIFIC BASIS BY A DESIGN PROFESSIONAL.

SPAN TABLE NOTES:

- SPANS SHOWN BASED ON PRODUCT TESTING LISTED IN GENERAL NOTES.
- PANEL DEAD LOADS HAVE BEEN FACTORED INTO CALCULATIONS FOR GRAVITY LOADS AS WELL AS CALCULATIONS FOR PANEL PROPERTIES.
- POSITIVE AND NEGATIVE DESIGN PRESSURE SHALL BE DETERMINED SEPARATELY PER ASCE 7 BASED

- ON SITE SPECIFIC APPLICATION AND COMPARED TO THE APPLICABLE TABLE ABOVE. THE LIMITING POSITIVE OR NEGATIVE PRESSURE SPAN VALUE SHALL BE USED FOR INSTALLATION.
- CALCULATED PRESSURES SHALL CONSIDER THE CONTROLLING LOAD COMBINATION, USING ALL APPLICABLE ASCE 7 LOADS INCLUDING DEAD, LIVE, SNOW, WIND, AND ANY OTHER LOADING APPLICABLE TO THE INSTALLATION, DETERMINED PER SEPARATE CERTIFICATION.
- TABLE CONSIDERS ASD DESIGN PRESSURES. TO CONVERT SEPARATELY CALCULATED ULTIMATE PRESSURES TO DESIGN PRESSURES,  $P(ULT)*0.6 = P(ASD)$ .

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REMARKS	DRWN	CHKD	DATE
ORIGINAL PROJECT (20-2518)	TT	FB	08/01/20
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