



Product	5V
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FL No.	6895.2
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Material	Finish
	Galvalume Painted

Gauge (minimum)	26
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Deck Description	Plywood
	New construction: 15/32" Existing construction: 15/32"

Deck Attachment	Spacing
	Nails: 8d - 2" ring shank nails: 6" O.C. Screws: #8 - 2" wood screws: 6" O.C.

Underlayment	30# Felt
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Roof Slope Ranges	Sealant
	Slope: 1/2 /12 to less than 3/12: Side Lap
	Slope: 3/12 and greater: None

Panel Fasteners	Spacing
	SDS Screws: #9-1 x 2" long: See Tables

Fastener Spacing (along panel length, inches)					
Wind Z Speed mph	one No. Roof Hip Location	Roof Slope			
		Gable Roof			Roof
		.5 to <1.5/12	1.5 to <6/12	6 to 12/12	1.5 to 5.5/12
100	1 Field	12	12	12	12
	2 Edge	12	12	12	12
	3 Corner	12	12	12	12
110	1 Field	12	12	12	12
	2 Edge	12	12	12	12
	3 Corner	6	6	12	12
120	1 Field	12	12	12	12
	2 Edge	12	12	12	12
	3 Corner	6	6	12	12
130	1 Field	12	12	12	12
	2 Edge	6	12	12	12
	3 Corner	6	6	12	12
140	1 Field	12	12	12	12
	2 Edge	6	6	6	12
	3 Corner	6	6	6	12

Fastener Spacing* (across panel width)	Location
	Panel Ends (eave, valley, hip and ridge): 6" o.c. Ribs and Flat
	Place fasteners 2" from panel end
Between Panel Ends (Intermediates): 12" .oc. Ribs Only	

*Fastener spacing based on testing and rational analysis

Notes:

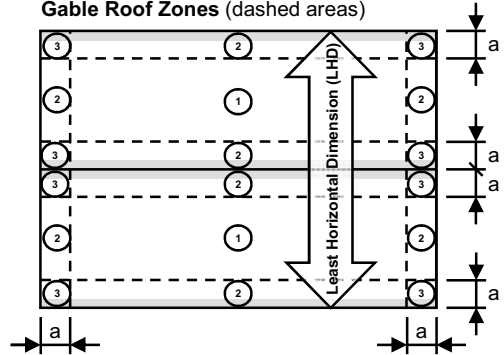
1. Read all Notes before purchasing material and check compliance of the product with local building code requirements.
2. The Fastener Spacing Table below is based on a mean roof height of up to 25' for Exposure C. For roof eave heights over 25' and other exposures contact Union Corrugating Company.
3. Installation must be in complete compliance with the materials and related specifications listed on this page, 5V Installation drawings, and the Florida Building Code RAS No. 133.
4. See 5V installation drawings for additional approved trim details and applications.
5. Refer to Florida Building Code RAS No. 133 "Standard Procedures for Installation of Metal Roof Systems".
6. For applications not in compliance with this product approval as listed contact Union Corrugating Company for other options.
7. This application and installation method is not for use in HVHZ areas governed by Miami Dade Product Approval. See the Union Corrugating Miami Dade Approved Product use guide for these areas.
8. If the roof has both Gables and Hips use the Gable Roof Fastener Spacing Table.
9. For Hip Roof slopes greater than 5.5/12 use Gable Roof Table, 6 to 12/12 column.
10. Guide is subject to change without notice.

Calculate Zone width (dimension "a"):

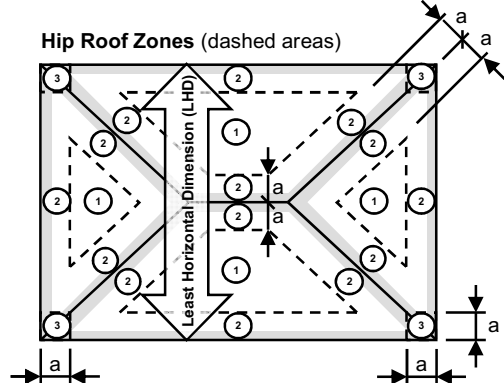
$a = \text{LHD} \times 10\%$

Note: "a" must be a minimum of 3'.

Gable Roof Zones (dashed areas)



Hip Roof Zones (dashed areas)



Gray highlighted lines indicate the location of panel end fastening at the eave, hip, valley (not shown), and ridge.

**EVALUATION REPORT OF
UNION CORRUGATING COMPANY
'26 GA. 5V PANEL'**

**FLORIDA PRODUCT APPROVAL
#FL 6895.2-R1
ROOFING
METAL ROOFING**

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**This report consists of
Evaluation Report (2 Pages including cover)
Installation Details (1 Page)**

**Report No. C1605-2
Date: 8.17.08**



A circular professional seal for the State of Florida, Department of Business and Professional Regulation, Professional Engineers. The seal contains the text "STATE OF FLORIDA", "DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION", and "PROFESSIONAL ENGINEERS". A blue ink signature is written across the seal, and the date "8.17.08" is written in blue ink below the signature.

Manufacturer: Union Corrugating Company

Product Name: 5V Panel

Panel Description: 24" wide coverage with (5) 1/2" high ribs

Materials: Min 26 ga. with galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755) in Grade E ($F_y = 80$ ksi).

Deck Description: 15/32" CDX Plywood (New or Existing Construction)

Deck Attachment: 8d x 2-1/2" long ring shank nails or #8 x 2" long wood screws @ 6" o.c. in the plywood field and edges

Slope: 1/2:12 or greater in accordance with FBC 2007 Section 1507.4.2

Design Uplift Pressure:
(Factor of Safety = 2) 66.3 psf @ fastener spacing of 12" o.c.

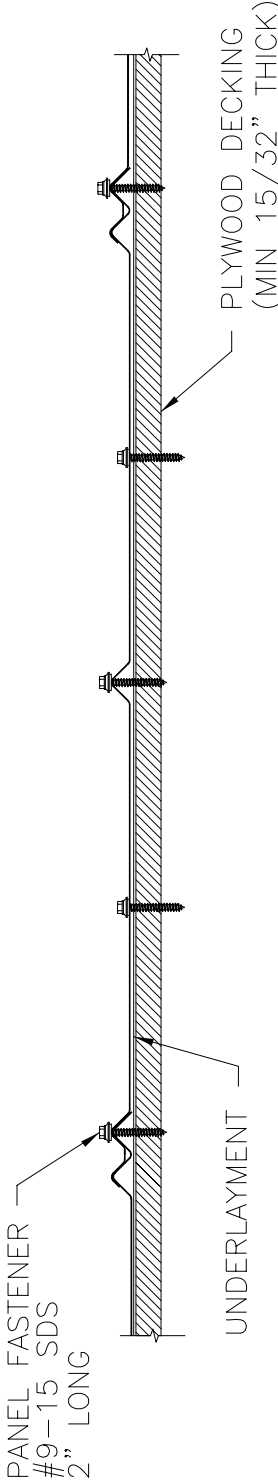
Panel Attachment:
At panel ends #9-15 x 2" long SDS @ 6" o.c. across panel width
At intermediate #9-15 x 2" long SDS @ 12" o.c. across panel width

Test Standards: Roof assembly tested in accordance with UL-580-94 'Uplift Resistance of Roof Assemblies' & UL 1897-98 'Uplift Tests for Roof Covering Systems'.

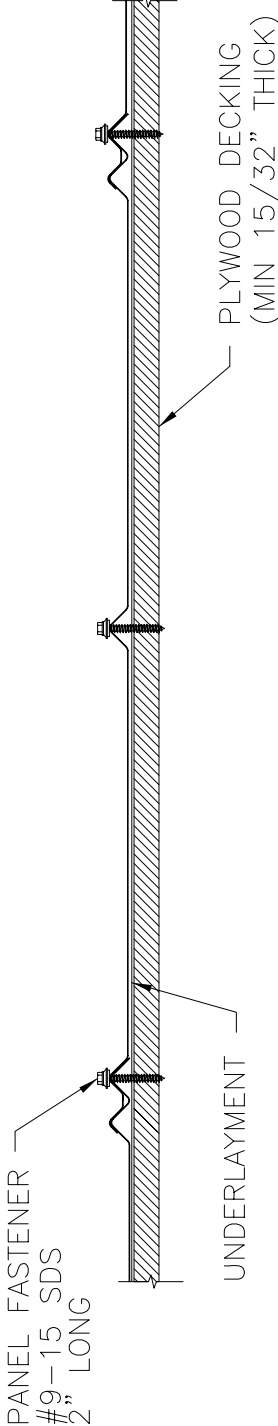
Code Compliance: The product described herein has demonstrated compliance with FBC 2007 Section 1507.4.

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2007 Section 1609. The maximum fastener spacing listed herein shall not be exceeded. This product is not approved for use in the High Velocity Hurricane Zone.

Supporting Documents: UL 580 Test Report
Farabaugh Engineering and Testing Inc
Project No. T187-06, Reporting Date 7/25/06



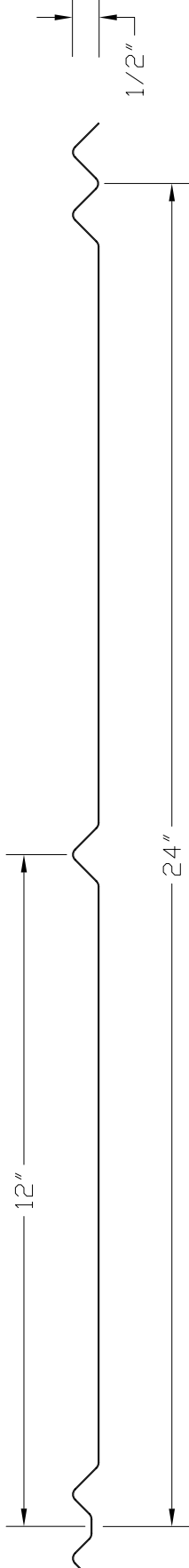
FASTENER PATTERN @ EAVE, RIDGE & VALLEY



FASTENER PATTERN @ INTERMEDIATE LOCATIONS

ALLOWABLE UPLIFT PRESSURE

FASTENER SPACING (IN)	PRESSURE (PSF)
12	66.3



5V Panel Profile

Min 26 Gauge, Minimum Yield = 80 KSI

