



Product	5V
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FL No.	9555.1
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Material	Finish
	Galvalume Painted

Gauge (minimum)	29
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Support Description	Wood
	Southern Yellow Pine Untreated Must be designed by others 1" x 4"

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

Panel Fasteners	Spacing
	SDS Screws: #10-14 x 1 1/2" long See Tables

Support Spacing (in) (Min 3 spans)					
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	24	24	24	24
	2 Edge	24	24	24	24
	3 Corner	24	24	24	24
110	1 Field	24	24	24	24
	2 Edge	24	24	24	24
	3 Corner	12	24	24	24
120	1 Field	24	24	24	24
	2 Edge	24	24	24	24
	3 Corner	12	12	24	24
130	1 Field	24	24	24	24
	2 Edge	24	24	24	24
	3 Corner	12	12	24	24
140	1 Field	24	24	24	24
	2 Edge	12	12	12	24
	3 Corner	12	12	12	24

Fastener Spacing* (across panel width)	Location
Panel Ends (eave, valley, hip and ridge): 6" o.c.	Flat
Place fasteners 3" from panel end	
Between Panel Ends (Intermediates): 12" o.c.	Flat

*Fastener spacing based on testing and rational analysis

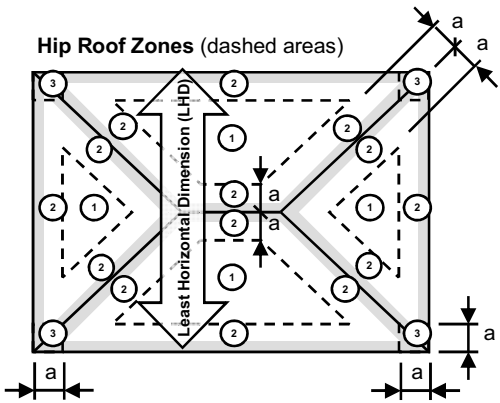
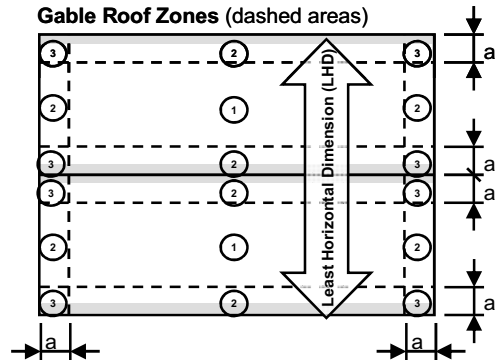
Notes:

1. Read all Notes before purchasing material and check compliance of the product with local building code requirements.
2. The Support 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")

$$a = LHD \times 10\%$$

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



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
'29 GA. 5V PANEL'
OVER WOOD SUPPORTS**

**FLORIDA PRODUCT APPROVAL
#FL 9555.1-R1
STRUCTURAL COMPONENTS
ROOF DECK**

**Prepared For:
Union Corrugating Company
P. O. Box 229
Fayetteville, NC 28302
Telephone: (910) 483-0479
Fax: (910) 483-8897**

**Prepared By:
Bala Sockalingam, Ph.D., P.E.
Florida Professional Engineer #62240
6717 South Yale Avenue, Suite 200
Tulsa, OK 74136
Telephone: (918) 492-5992
FAX: (918) 493-3568**

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

**Report No. C1605-3
Date: 8.17.08**



Manufacturer: Union Corrugating Company

Product Name: 5V Panel

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

Materials: Min 29 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).

Support Description: Nom. 1" x 4" (min) lumber (Southern Yellow Pine Untreated) (Must be designed by others)

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

Design Uplift Pressure: 70.25 psf @ fastener spacing of 24" o.c.
(Factor of Safety = 2) (3 or more spans)

Panel Attachment:
At panel ends #10-14 x 1-1/2" long SDS @ 12" o.c. across panel width
At intermediate #10-14 x 1-1/2" long SDS @ 12" o.c. across panel width

Test Standards: Roof assembly tested in accordance with ASTM E1592-01 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference' and FM 4470 Section 5.5 'Resistance to Foot Traffic'.

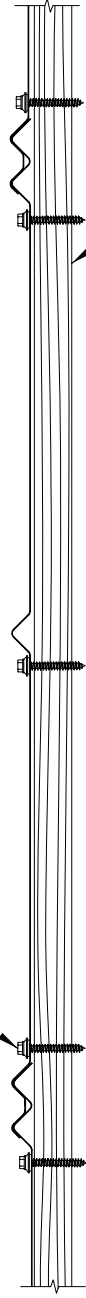
Code Compliance: The product described herein has demonstrated compliance with FBC 2007 Section 1507.4.

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2007 Section 1609. The maximum support spacing listed herein shall not be exceeded. The design uplift pressure for reduced support spacing may be computed using rational analysis prepared by a Florida Professional Engineer. This product is not approved for use in the High Velocity Hurricane Zone.

Supporting Documents: ASTM E1592 Test Report
Farabaugh Engineering and Testing Inc
Project No. T246-06, Revised Reporting Date 11/7/06

FM 4470 Test Report
ENCON Technology Inc
C1583-3, Reporting Date 7/24/08

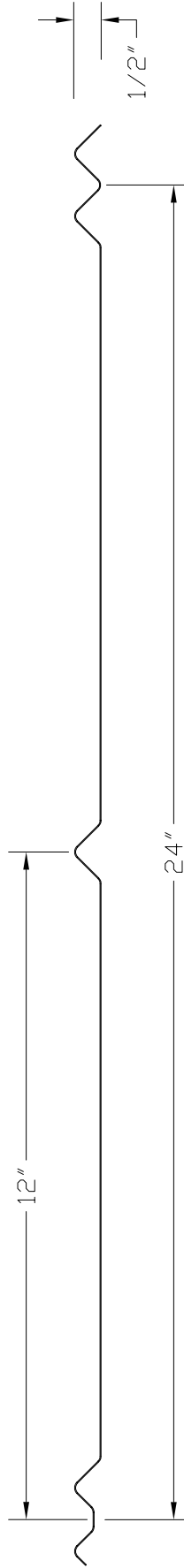
PANEL FASTENER
 #10-14 X 1-1/2" LONG
 @ MAX 12" O.C.



NOM. 1" X 4" (MIN)
 SYP UNTREATED
 (DESIGN BY OTHERS)

FASTENER PATTERN

SUPPORT SPACING = 24" o.c.
 ALLOWABLE UPLIFT PRESSURE = 70.25 PSF



5V Panel Profile

29 Gauge, Minimum Yield = 80 KSI

REV	DATE	REVISIONS
1		

5V Panel

CAD FILE:
 5V

SCALE: NONE

DRAWN: Bala Sockalingam
 DATE: 8-15-2008

CHECKED:

APPROVED:

UNION CORRUGATING
 COMPANY
 701 SOUTH KING ST
 FAYETTEVILLE, NC 28302
 PH: (910) 483-2195 FAX: (910) 483-1091

DATE: 8-15-2008

1 of 1

Sheet No.

