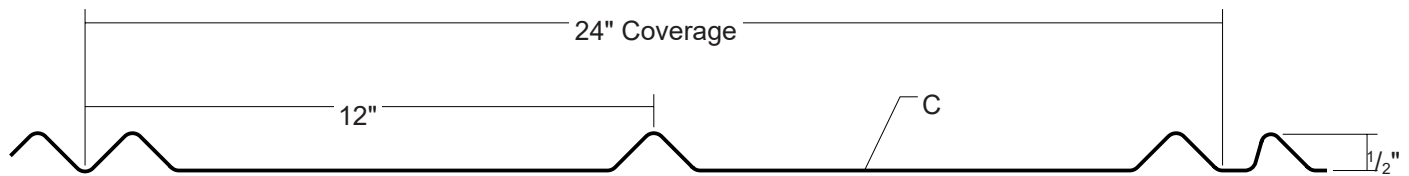


# ALUMINUM 5V-CRIMP

Condensed  
Technical  
Reference



ARCHITECTURAL  
RESIDENTIAL  
PANEL

DIRECT  
FASTEN

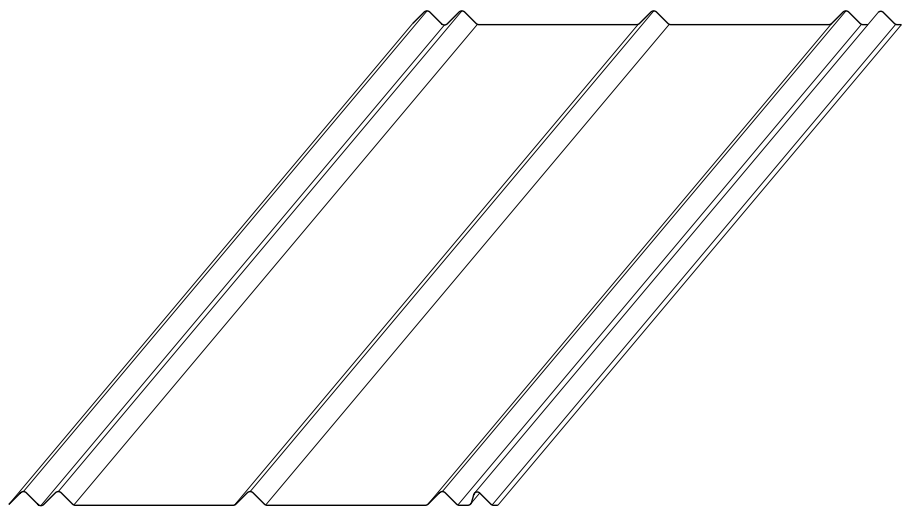
24"  
COVERAGE

MINIMUM  
SLOPE  
3:12

SOLID WOOD  
SUBSTRATE

## PANEL OVERVIEW

- ▶ Finishes: PVDF and Mill Finish
- ▶ Material: 3105-H24 Aluminum per ASTM B 209
- ▶ Thickness: 0.032"
- ▶ 24" panel coverage, 1/2" rib height
- ▶ Exposed fastened panel, traditional "V" rib
- ▶ Applies over solid substrate with 30 pound felt underlayment
- ▶ 3:12 slope minimum



## TESTING

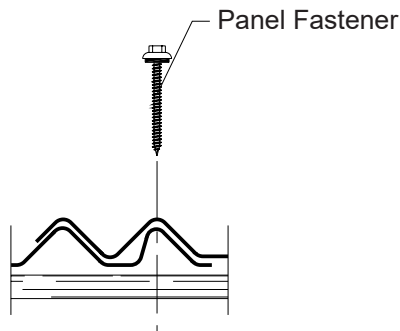
- ▶ UL 2218, Class 4, Impact Resistance
- ▶ UL 790, Class A, Fire Resistance
- ▶ UL 263, Fire Resistance
- ▶ 2017 FBC Approval, FL11560.1
- ▶ Miami-Dade County, FL NOA - 14-0220.09 expires 4/24/2019

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# ALUMINUM 5V-CRIMP

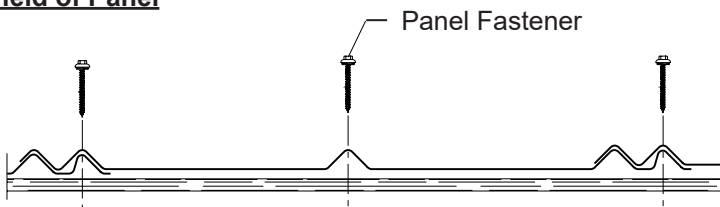
Condensed  
Technical  
Reference

## ATTACHMENT DETAIL

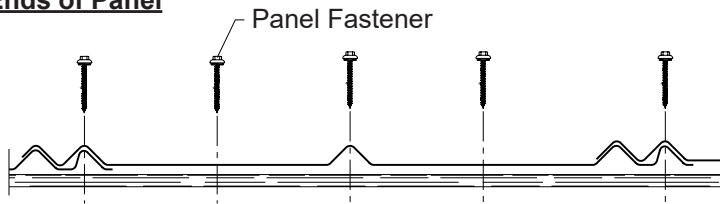


## FASTENING PATTERNS

### Field of Panel



### Ends of Panel



## GENERAL INFORMATION

### ► Length

Minimum factory cut length is 5'-0".  
Maximum recommended panel length is 45'-0".  
Please inquire about longer panels.

### ► Fasteners

Overdriven fasteners will cause panel distortion.

Panel fasteners should extend 1/2" or more past the inside face of the support material.

Type 304 Stainless Steel fasteners are recommended for any fastener that penetrates Aluminum.

Type of fastener material is shown in parenthesis.

#### Panel Fasteners:

Attaching to Wood:

- #9-15 BiMetal Wood Screw (Stainless Steel)
- #10-14 Wood Screw (Carbon Steel)

#### Trim Fasteners:

- 1/8" x 3/16" Pop Rivet (Stainless Steel)
- #14-11 x 1" Stitch Screw (Stainless Steel)
- 1/4"-14 x 7/8" Stitch Screw (Carbon Steel)

## SECTION PROPERTIES

## ALLOWABLE UNIFORM LOADS, psf (3 or More Equal Spans)

| Thick<br>in | Width<br>in | Yield<br>ksi | Weight<br>psf | I<br>in <sup>4</sup> /ft | S <sub>Top</sub><br>in <sup>3</sup> /ft | S <sub>Bottom</sub><br>in <sup>3</sup> /ft | Outward Load |     |      |    |      |    |
|-------------|-------------|--------------|---------------|--------------------------|---|--|--------------|-----|------|----|------|----|
|             |             |              |               |                          |   |  | 0.5'         | 1'  | 1.5' | 2' | 2.5' | 3' |
| 0.032       | 24          | 24           | 0.449         | 0.0045                   | 0.0122                                  | 0.0719                                     | 161          | 135 | 109  | 83 | 56   | 30 |

1. Theoretical section properties have been calculated per 2010 Aluminum Design Manual. I, S<sub>Top</sub> and S<sub>Bottom</sub> are section properties for deflection and bending.
2. Allowable load is calculated in accordance with 2010 Aluminum Design Manual specifications considering bending, shear, combined bending and shear, deflection and uplift load testing per UL 580 over 7/16" OSB. Values at 0.5' and 3' are based on test results. Other values are determined by interpolation. Allowable load does not address web crippling or the performance of other fasteners or support materials.
3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
4. Allowable loads do not include a 1/3 stress increase in uplift.

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