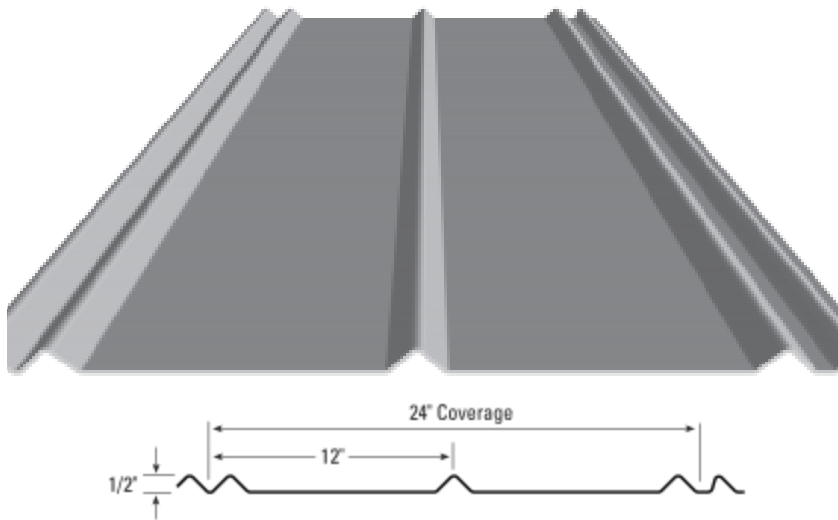




Metal Center
METAL ROOFING SUPPLY

1630 Second Street NW
Albuquerque, NM 87102
(505) 717-2224

5V Crimp



Product Overview

With a traditional "V" rib, 5V-Crimp offers details designed to conceal its fasteners to provide a stunning metal roof with a clean appearance.

Testing & Approvals

- UL 2218 Impact Resistance - Class 4
- Class 4 UL 790 Fire Resistance Rating - Class A, per building code
- UL 263 Fire Resistance Rating - per assembly
- UL 580 Uplift Resistance - Class 90 Constructions: #579 and #453

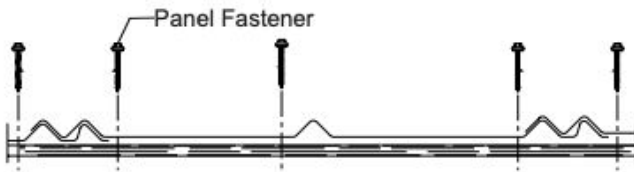
Required Substrate: 5V Crimp is designed to be utilized over a solid substrate. The recommended substrate is 5/8" plywood with at least a 30 pound felt moisture barrier.

2

- Minimum Slope: The minimum recommended slope for 5V Crimp is 3:12.
- Coverage
 - Each panel's effective coverage is 24".
- Lengths
 - The minimum length for Delta-Rib is 3' 2", with a maximum recommended length of 30'.
- Availability
 - 5V Crimp is a special order product with an approximate arrival time of 2 weeks.
- Application
 - 5V Crimp is used largely in commercial, industrial, residential, and agricultural settings.
- Fastening System
 - Simulated Concealed Fastened - Exposed Fastened
- Materials
 - Steel Grade 80 per ATSM A-792 or ATSM A-792-AZ55
 - Steel Grade 50 per ATSM A-792 in 24 Gauge
- Finish
 - Acrylic Coated Galvalume® (ACG) / ASTM A-792 - AZ55
 - Prepainted Galvalume / ASTM A-792 - AZ50
 - Silicone-Modified Polyester (SMP)
 - **Fluorocarbon (PVDF)
 - * Differential appearance of Acrylic Coated Galvalume roofing materials is not a cause for rejection.
 - ** Meets both Kynar 500 and Hylar 5000 specifications.

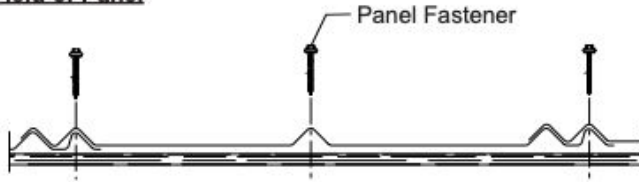
Delta Rib Fastening Procedures

FASTENING PATTERN

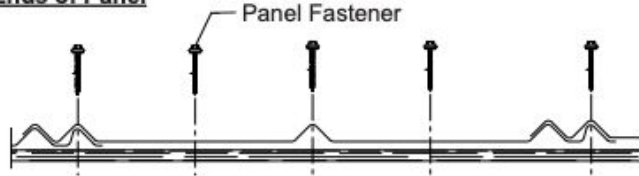


ALTERNATE FASTENING PATTERN

Field of Panel



Ends of Panel



FASTENER INFORMATION

Overdriven fasteners will cause panel distortions.

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

Thick panels (ex. 18 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.

Panel Fastener:

Attaching to Wood:

#10-14 Wood Screw

#10-14 XL Wood Screw

Trim Fastener:

1/4"-14 x 7/8" Stitch Screw

1/4"-14 x 7/8" XL Stitch Screw

SECTION PROPERTIES

ALLOWABLE UNIFORM LIVE LOADS PSF (3 or More Equal Spans)

Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression		Bottom in Compression		Inward (Gravity / Deflection) Load						Outward Uplift (Stress) Load					
				Ixx In ⁴ /ft	Sxx In ³ /ft	Ixx In ⁴ /ft	Sxx In ³ /ft	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
26	36"	80	0.91	0.0360	0.0358	0.0313	0.0452	256	127	74	49	34	23	217	104	60	39	27	20
24	36"	50	1.17	0.0560	0.0578	0.0457	0.0613	330	153	88	57	39	29	314	145	83	53	37	27
22	36"	50	1.51	0.0800	0.0856	0.0633	0.0813	451	206	117	75	52	39	472	217	123	79	55	40

- Theoretical section properties have been calculated per AISI 2001 "Specification for the Design of Cold-formed Steel Structural Members." Ixx and Sxx are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2001 specifications considering bending, shear, combined bending and shear, deflection, and applicable testing when available. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection and panel weight is not considered.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase in uplift.