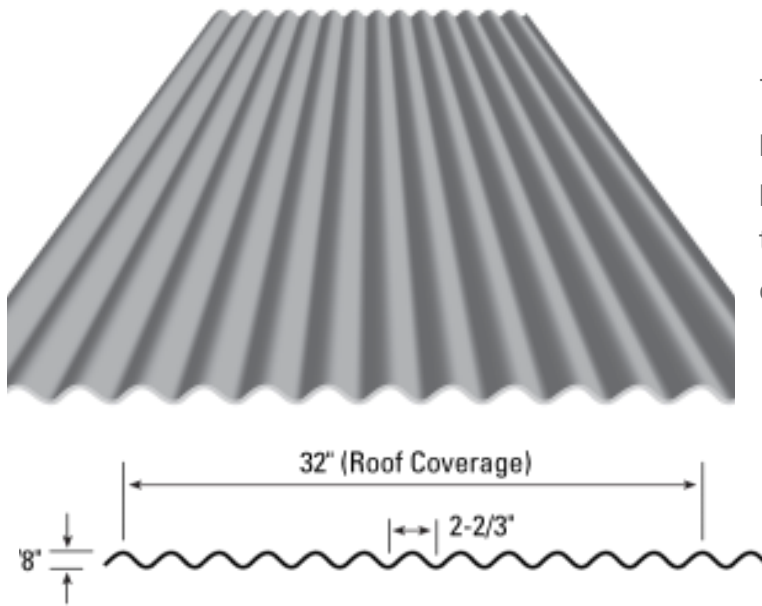




1630 Second Street NW  
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(505) 717-2224

# Corrugated



## Product Overview

7/8" Corrugated Roof Panels are about performance on a large scale. These panels tend to be deeper and thicker than other panels to span longer distances and resist greater loads.

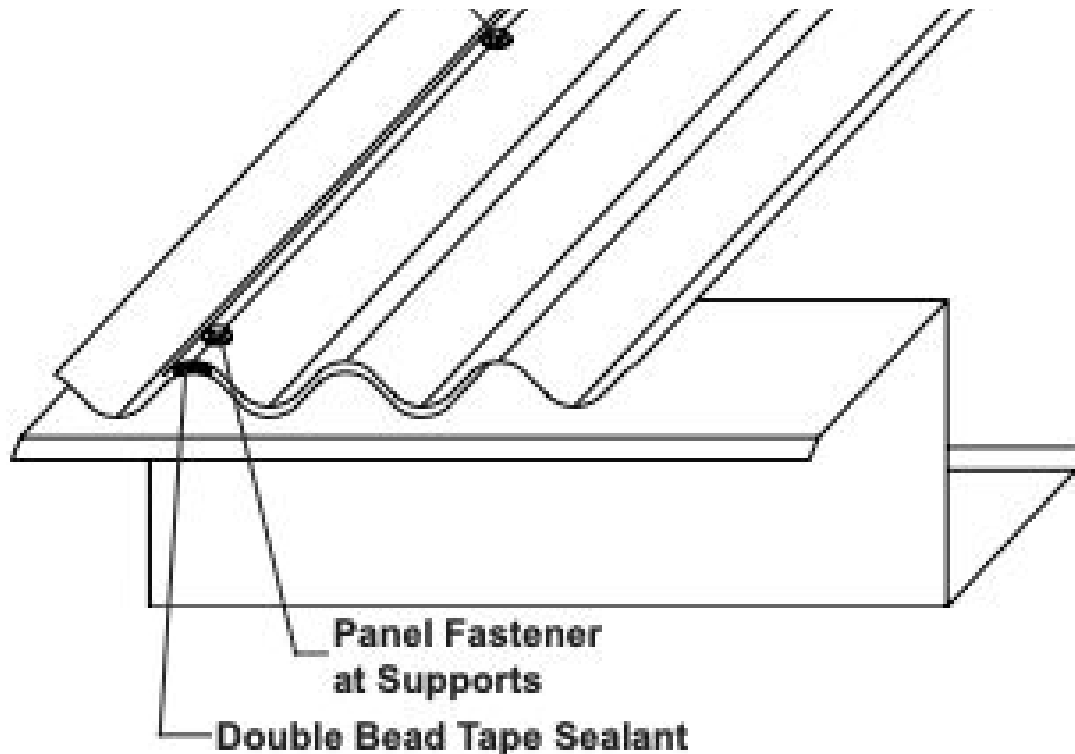
### Testing & Approvals

- UL 2218 Class 4 Impact Resistance
- UL 263 Fire Resistance Rating
- UL 580 Class 90 Wind Uplift Construction #161
- UL 790 Class A Fire Resistance Rating

Required Substrate: Corrugated is designed to be utilized over open structural framing, but can easily be used with a solid substrate.

- Minimum Slope:
  - The minimum recommended slope for Corrugated is 1:12. Metal Center strongly recommends the use of sealant tape for all sidelaps when used for roofing.
- Coverage
  - Each panel's effective coverage is 32".
- Lengths
  - The minimum length for Corrugated is 3' 2", with a maximum recommended length of 45'.
- Availability
  - Corrugated is a special order product with an approximate arrival time of 1-week.
- Application
  - PBR-Panel is used largely in commercial, industrial, residential, and agricultural settings.
- Fastening System
  - 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.

## Corrugated Fastening Procedures



### FASTENING PATTERNS

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 <sup>4</sup> /ft	Sxx In <sup>3</sup> /ft	Ixx In <sup>4</sup> /ft	Sxx In <sup>3</sup> /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

1. 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.
2. 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.
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.