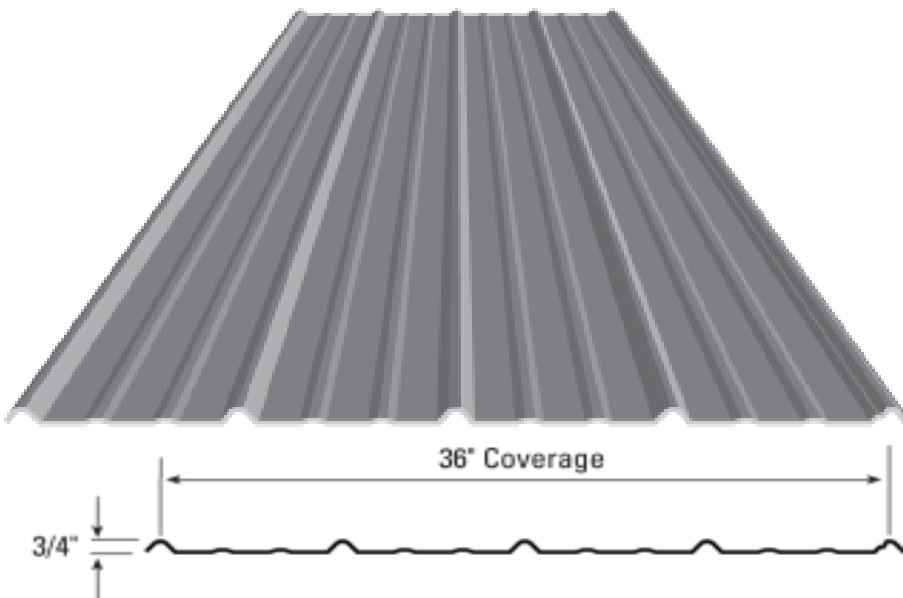




**Metal Center**  
METAL ROOFING SUPPLY

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

# Desert-Rib



## Product Overview

The bold and classic design of the Desert-Rib profile makes it the residential, commercial, and agricultural profile of choice. It is highly recommended for most projects and can be used for roofing or siding, interior or exterior.

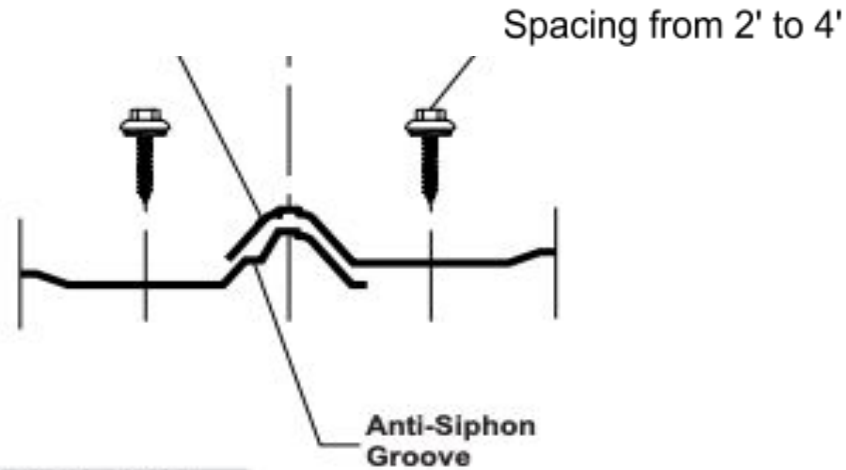
### Testing & Approvals

- 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: Desert-Rib is designed to be utilized over open structural framing, but can easily be used with a solid substrate. The recommended substrate is 5/8" plywood with a 30 pound moisture barrier.

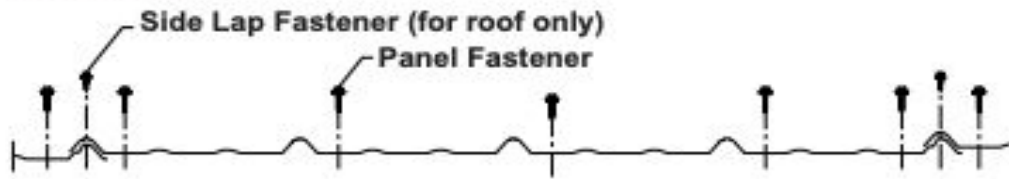
- Minimum Slope:
  - The minimum recommended slope for Desert-Rib is 3:12. Metal Center strongly recommends the use of sealant tape for all sidelaps when used for roofing.
- Coverage
  - Each panel's effective coverage is 3' (36 inches).
- Lengths
  - The minimum length for Desert-Rib is 3' 2", with a maximum recommended length of 45'.
- Availability
  - Desert-Rib is available in 29 gauge and 26 gauge, and can be made in 24 gauge via special order.
- Application
  - Desert-Rib is used largely in commercial, 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
- 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.

# Desert-Rib Fastening Procedures

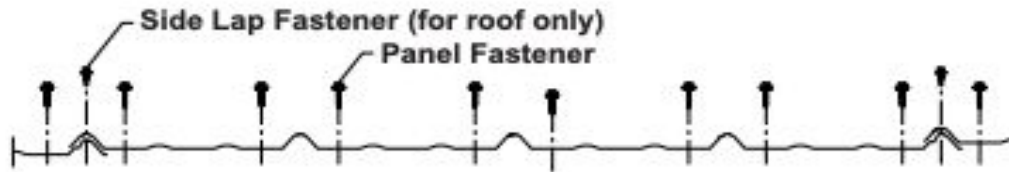


## FASTENING PATTERN

### Field of Panel



### Ends of Panel



SECTION PROPERTIES								ALLOWABLE UNIFORM LIVE LOADS, psf For various fastener spacings											
Ga	Width in	Yield ksi	Weight psf	Top in Compression		Bottom in Compression		Inward Load						Outward Load					
				I <sub>xx</sub> in <sup>4</sup> /ft	S <sub>xx</sub> in <sup>3</sup> /ft	I <sub>xx</sub> in <sup>4</sup> /ft	S <sub>xx</sub> in <sup>3</sup> /ft	1.5'	2'	2.5'	3'	3.5'	4'	1.5'	2'	2.5'	3'	3.5'	4'
29	36	80	0.62	0.0100	0.0151	0.0053	0.0118	142	81	52	36	27	21	179	103	66	46	34	26
26	36	80	0.79	0.0127	0.0192	0.0070	0.0153	185	105	68	47	35	27	227	131	84	59	44	33
24	36	50	1.03	0.0163	0.0249	0.0103	0.0208	208	119	77	53	39	30	245	141	91	64	47	36

- Theoretical section properties have been calculated per AISI 2012 'North American Specification for the Design of Cold-Formed Steel Structural Members'. I<sub>xx</sub> and S<sub>xx</sub> are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing. 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 for wind.
- Diaphragm Capacity** - 246 plf average Ultimate Shear Strength using the above fastening pattern on 2x supports located 2' on center, per ASTM E 455.