

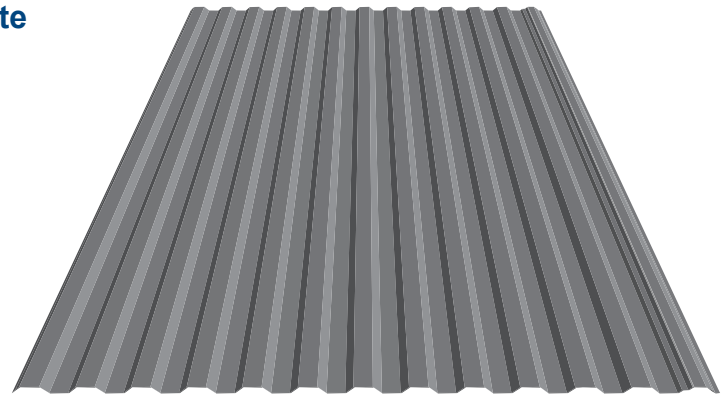
DL-3 Panel

Metal Sales Manufacturing Corporation



Continuous Rib Metal Roof Panel

- ▶ Installs over open framing or solid substrate
- ▶ 29 ga. corrosion resistant steel substrate
- ▶ 45 year warranty paint system
- ▶ Custom cut lengths up to 45'
- ▶ Exposed Fastener System
- ▶ Minimum roof slope 3:12
- ▶ 36" Coverage

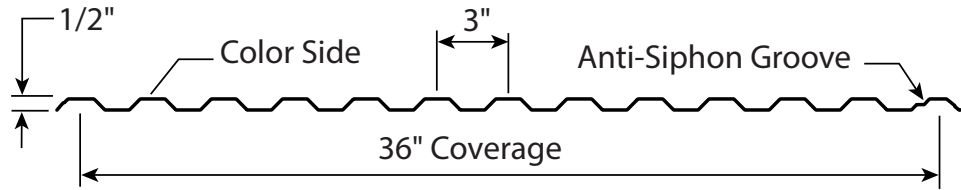


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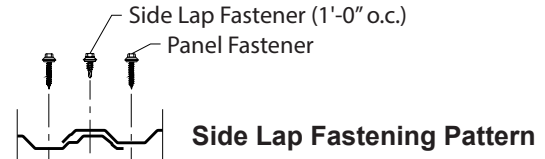
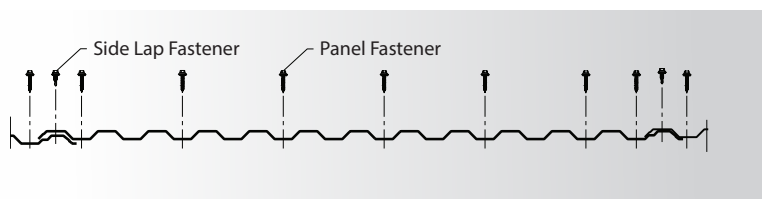
MS Metal Sales™

DL-3 PANEL

PROFILE



FASTENING PATTERNS



PANEL INFORMATION

- ▶ Finishes: MS Colorfast45® and Bare Galvanized
- ▶ Corrosion Protection: G60 per ASTM A 653
- ▶ Gauge: 29 ga
- ▶ 36" panel coverage, 0.39" rib height
- ▶ Panel Length: Minimum: 5'; Maximum: 45' recommended
- ▶ Panel Run Length: Maximum: 60' recommended
- ▶ Exposed fastened, low profile roof and wall system
- ▶ Trapezoidal ribs on 3" centers
- ▶ Minimum roof slope: 3:12
- ▶ Minimum 'walked-down' radius of 40'.

TESTING AND APPROVALS

- ▶ UL 2218 Impact Resistance - Class 4
- ▶ UL 790 Fire Resistance Rating - Class A, per building code
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ ASTM E 1592 Structural Performance

LOAD TABLE

SECTION PROPERTIES								ALLOWABLE UNIFORM LOADS, psf For various fastener spacings											
Ga	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression		Inward Load				Outward Load							
				Ixx in ⁴ /ft	Sxx in ³ /ft	Ixx in ⁴ /ft	Sxx in ³ /ft	1.5'	2'	2.5'	3'	3.5'	4'	1.5'	2'	2.5'	3'	3.5'	4'
				29	36	50	0.71	0.0050	0.0214	0.0050	0.0208	210	120	64	37	23	16	216	123

1. Theoretical section properties have been calculated per AISI 2016 'North American 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 2016 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.
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 for wind.
5. The allowable diaphragm strength for a 29 ga panel attached to 16 ga steel supports with the above fastener and fastener pattern has been calculated at 240 plf with supports at 2' oc and 90 plf with supports 4' oc using the "Diaphragm Design Manual", 3rd Edition, Steel Deck Institute.

Metal Sales Manufacturing Corporation

Anchorage, AK: 866.640.7663
 Bay City, MI: 888.777.7640
 Deer Lake, PA: 800.544.2577
 Denver, CO: 800.289.7663
 Detroit Lakes, MN: 888.594.1394

Fontana, CA: 800.782.7953
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Sellersburg, IN: 800.999.7777
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 Spokane, WA: 800.572.6565
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