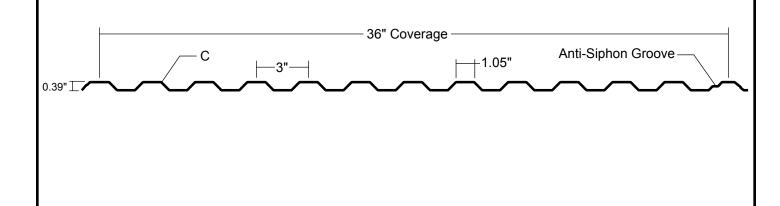
DL-3 PANEL



ARCHITECTURAL COMMERCIAL PANEL

EXPOSED FASTENED

36" COVERAGE MINIMUM SLOPE 3:12

OPEN FRAMING OR SOLID SUBSTRATE

PANEL OVERVIEW

- ► 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'.

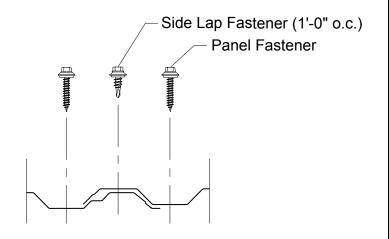
TESTING AND APPROVALS

- ► 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

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DL-3 PANEL

ATTACHMENT DETAIL



FASTENING PATTERN

FASTENER INFORMATION

Overdriven fasteners will cause panel distortions.

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

Applications with large internal suction pressure, such as partially enclosed structures and those with forced air ventilation, should add sidelap and endlap sealant to improve weather-tight performance.

Panel Fasteners:

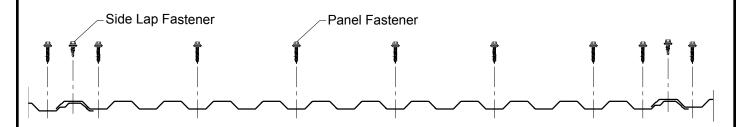
Attaching to Wood: #10-14 Wood Screw #10-14 XL Wood Screw

Attaching to Steel: #12-14 Self Drilling Screw #12-14 XL Self Drilling Screw

Side Lap Fastener: (Roof Only) 1/4"-14 x 7/8" Stitch Screw 1/4"-14 x 7/8" XL Stitch Screw

Trim Fastener:

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



ALLOWABLE UNIFORM LOADS, psf SECTION PROPERTIES For various fastener spacings Top In Compression Bottom In Compression Weight **Inward Load Outward Load** Width Yield Ga lxx Sxx lxx Sxx in ksi psf in4/ft in3/ft in4/ft in3/ft 1.5' 2' 2.5' 3' 3.5' 4' 1.5' 2' 2.5' 3' 3.5' 4' 210 123 0.71 0.0050 0.0214 0.0050 0.0208 120 64 37 23 216 64 37 29 36 50 16 23 16

- 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.
- 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.

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