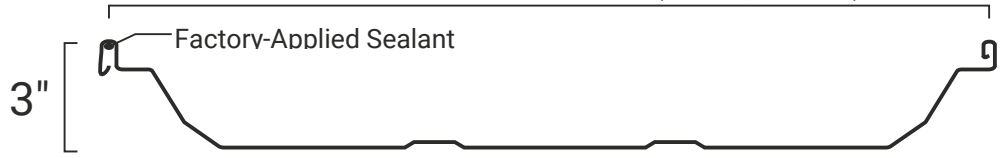
Central-Loc - Technical Sheet

24” Standard Profile (18” Optional)

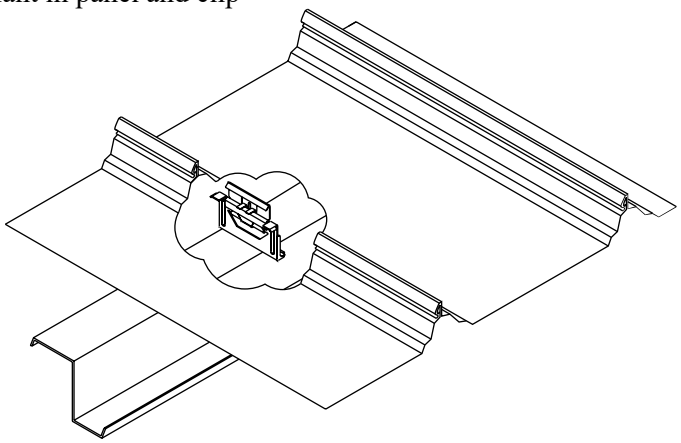


24” MS3 Profile (Verify Price, Color, Availabilty)

COMMERCIAL INDUSTRIAL PANEL | **CONCEALED FASTENED** | **24" COVERAGE** | **MINIMUM SLOPE 1/4:12** | **OPEN FRAMING OR SOLID SUBSTRATE**

PANEL OVERVIEW

- Finishes: PVDF and Acrylic-Coated Galvalume®
- Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®
  AZ50 per ASTM A 792 for painted Galvalume®
  G90 per ASTM A 653 for Galvanized
- Gauges: 24 ga standard; 22 ga optional
- 24" panel coverage, 3" rib height
- Panel Length: Minimum: 5'; Maximum: 45' recommended
- Structural, trapezoidal standing seam roof system
- Snap-together side lap with factory-applied sealant in panel and clip
- Minimum roof slope: 1/4:12
- Panels can be factory-notched and punched
- Accommodates 1/2" to 6" blanket insulation



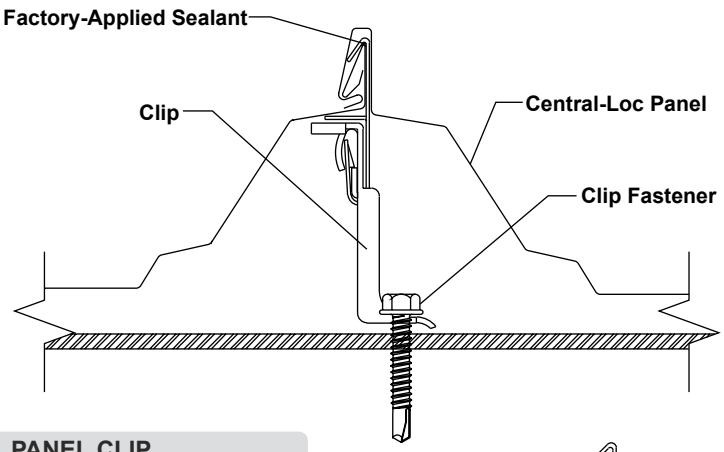
TESTING AND APPROVALS

- 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 1680 Air Leakage - 0.005 cfm/ft² at 6.24 psf
- ASTM E 1646 Water Penetration - none at 20 psf
- ASTM E 1592 Structural Performance
- UL 580 Uplift Resistance - Class 90 - See Report for Requirements

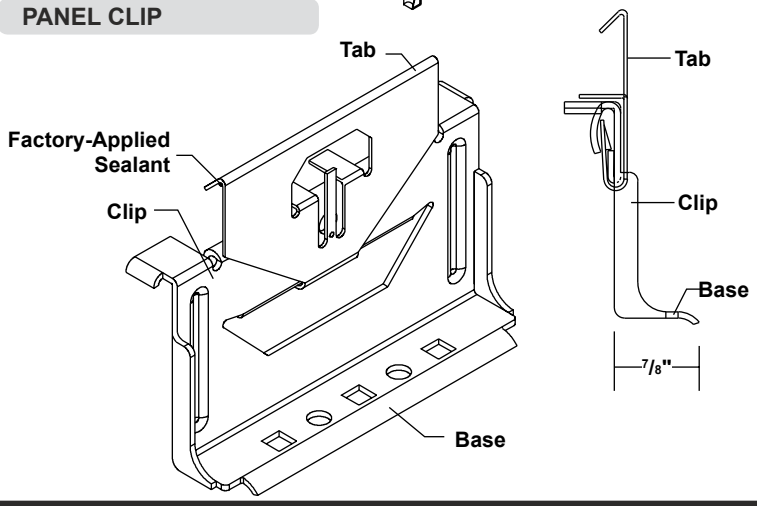
BEST BUY METALS
Roofing That Lasts

Central-Loc - Technical Sheet

ATTACHMENT DETAIL



PANEL CLIP



FASTENING INFORMATION

▶ Clips

Clip spacing is based upon the design loads, the spanning capacity of the panels, the fasteners and the support members.

Clip Tabs are 0.037" thick, G90. Clip base is 0.064" thick, G90.

Floating Clips can accomodate 1-1/8" of thermal movement each way.

▶ Fasteners

Overdriven fasteners will cause panel distortions.

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

Clip Fasteners:
- Attaching to Wood:
  - #10-12 Pancake Head Wood Screw
- Attaching to Steel:
  - <18 ga: 1/4"-14 Deck Screw
  - >=18 ga, <=12 ga: 1/4"-14 Driller, No Washer
  - >12 ga: 1/4"-24 Driller, No Washer

Exposed End Fasteners:
- Attaching to Eave Plate or Compression Plate:
  - #12-14 XL Driller

Concealed End Fasteners:
- Attaching to Compression Plate:
  - 1/4"-14 Driller, No Washer

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

SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf For various clip 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	2'	2.5'	3'	3.5'	4'	5'	2'	2.5'	3'	3.5'	4'	5'
24	24	50	1.14	0.3070	0.1271	0.1250	0.0819	418	280	199	149	115	75	28	26	25	23	21	18
22	24	50	1.49	0.4060	0.1679	0.1750	0.1117	578	385	274	204	158	102	35	33	31	28	26	22

1. Theoretical section properties have been calculated per AISI 2012 '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 loads are calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear, deflection and ASTM E 1592 uplift testing. Allowable loads consider the 3 or more equal spans condition. Allowable loads do not address web crippling, fasteners or support material. 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.