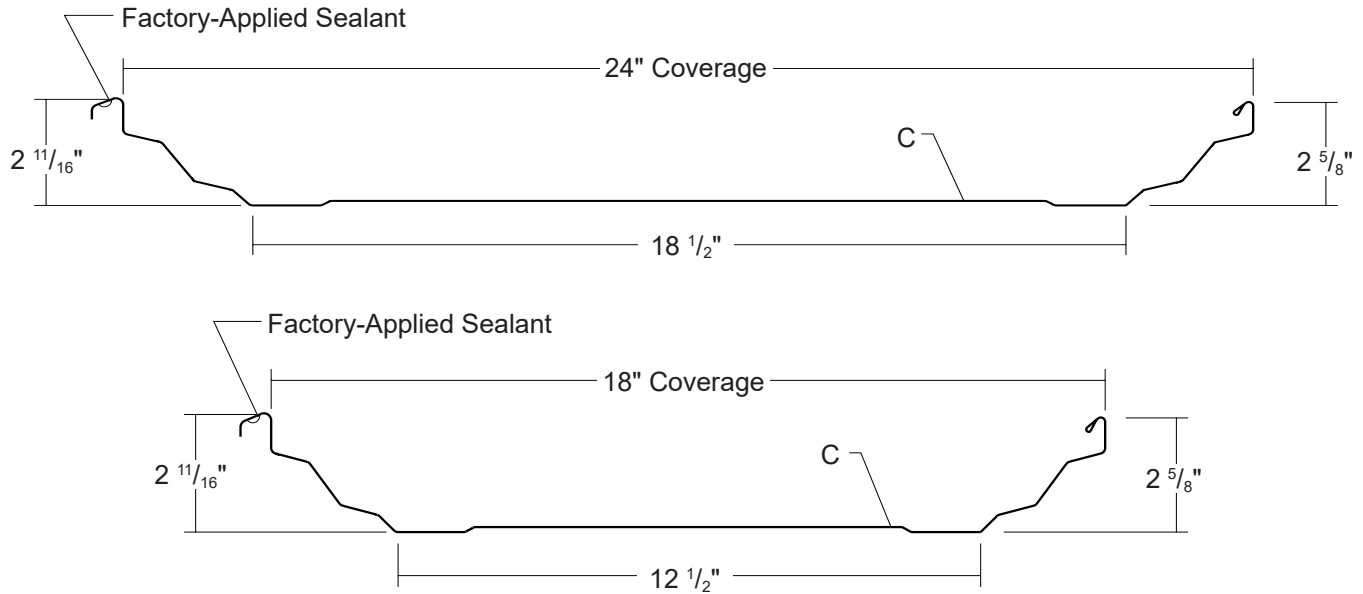


SEAM-LOC 24®

Condensed
Technical
Reference



COMMERCIAL
INDUSTRIAL
PANEL

CONCEALED
FASTENED

24" OR 18"
COVERAGE

MINIMUM
SLOPE
1/4:12

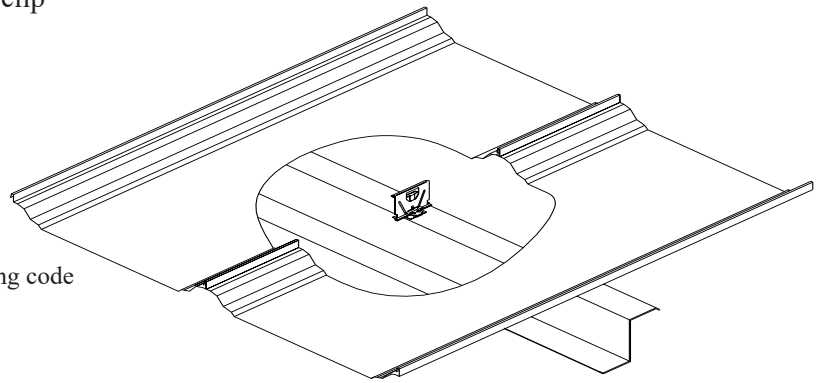
OPEN FRAMING OR
SOLID SUBSTRATE

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" or 18" panel coverage, 2^{11/16}" rib height
- ▶ Panel Length: Minimum: 5'; Maximum: 45' recommended
- ▶ Structural trapezoidal standing seam roof system
- ▶ Pittsburgh double flat locking mechanically-seamed side lap
- ▶ Factory-applied side lap 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 283 Air Leakage - 0.06 cfm/ft² at 6.24 psf
- ▶ ASTM E 331 Water Penetration - none at 6.24 psf
- ▶ ASTM E 1680 Air Leakage - 0.0011 cfm/ft² at 6.24 psf
- ▶ ASTM E 1646 Water Penetration - none at 12 psf
- ▶ ASTM E 1592 Structural Performance
- ▶ UL 580 Uplift Resistance - Class 90 Constructions: #197 and #197A
- ▶ 2023 FBC Approvals - FL10999.8 and FL10999.9

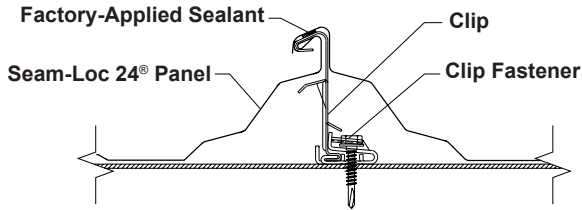


MMS Metal Sales™

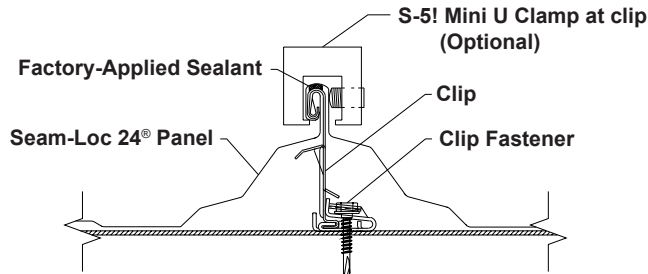
SEAM-LOC 24[®]

**Condensed
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Reference**

ATTACHMENT DETAILS

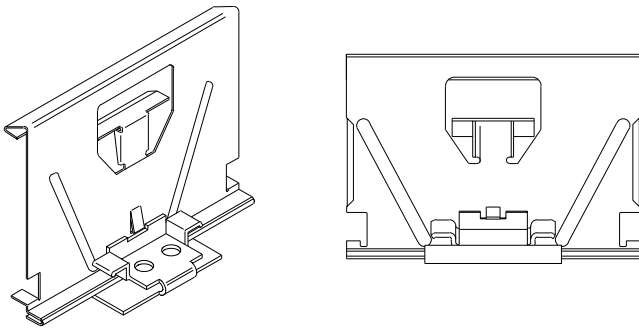


BEFORE SEAMING



AFTER SEAMING

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 0.060" thick, G60.

Floating Clips can accommodate 1-1/2" 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:

At Eave Plate or Compression Plate:

#12-14 XL Driller

Concealed End Fasteners:

At Compression Plate:

#12-14 Driller, No Washer

Trim Fasteners:

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

SECTION PROPERTIES

Ga	Width in	Yield ksi	Weight psf	Top In Compression				Bottom In Compression			
				lxx in ⁴ /ft		Sxx in ³ /ft		lxx in ⁴ /ft		Sxx in ³ /ft	
				lxx	Sxx	lxx	Sxx	lxx	Sxx		
24	24	50	1.09	0.2055	0.0952	0.0920	0.0653	0.2055	0.0952	0.0920	0.0653
24*	24	50	1.09	0.2055	0.0952	0.0920	0.0653	0.2055	0.0952	0.0920	0.0653
24	18	50	1.15	0.2480	0.1221	0.1220	0.0869	0.2480	0.1221	0.1220	0.0869
24*	18	50	1.15	0.2480	0.1221	0.1220	0.0869	0.2480	0.1221	0.1220	0.0869
22	24	50	1.43	0.2725	0.1263	0.1280	0.0882	0.2725	0.1263	0.1280	0.0882

ALLOWABLE UNIFORM LOADS, psf For various clip spacings

Ga	Width in	Yield ksi	Weight psf	lxx in ⁴ /ft	Sxx in ³ /ft	lxx in ⁴ /ft	Sxx in ³ /ft	Inward Load					Outward Load						
								2'	2.5'	3'	3.5'	4'	5'	2'	2.5'	3'	3.5'	4'	5'
								24	24	50	1.09	0.2055	0.0952	0.0920	0.0653	342	227	161	120
24*	24	50	1.09	0.2055	0.0952	0.0920	0.0653	342	227	161	120	93	60	130	117	104	91	79	53
24	18	50	1.15	0.2480	0.1221	0.1220	0.0869	455	302	214	160	123	80	92	85	77	69	62	46
24*	18	50	1.15	0.2480	0.1221	0.1220	0.0869	455	302	214	160	123	80	167	150	133	116	99	65
22	24	50	1.43	0.2725	0.1263	0.1280	0.0882	458	305	217	161	125	81	74	69	64	59	54	44

- 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 & shear and deflection. Allowable load does not address web crippling, fasteners, support material or load testing. Allowable load considers the three or more equal spans condition. 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.
- * - indicates the use of S-5! Mini-U Clamp at panel clip.

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