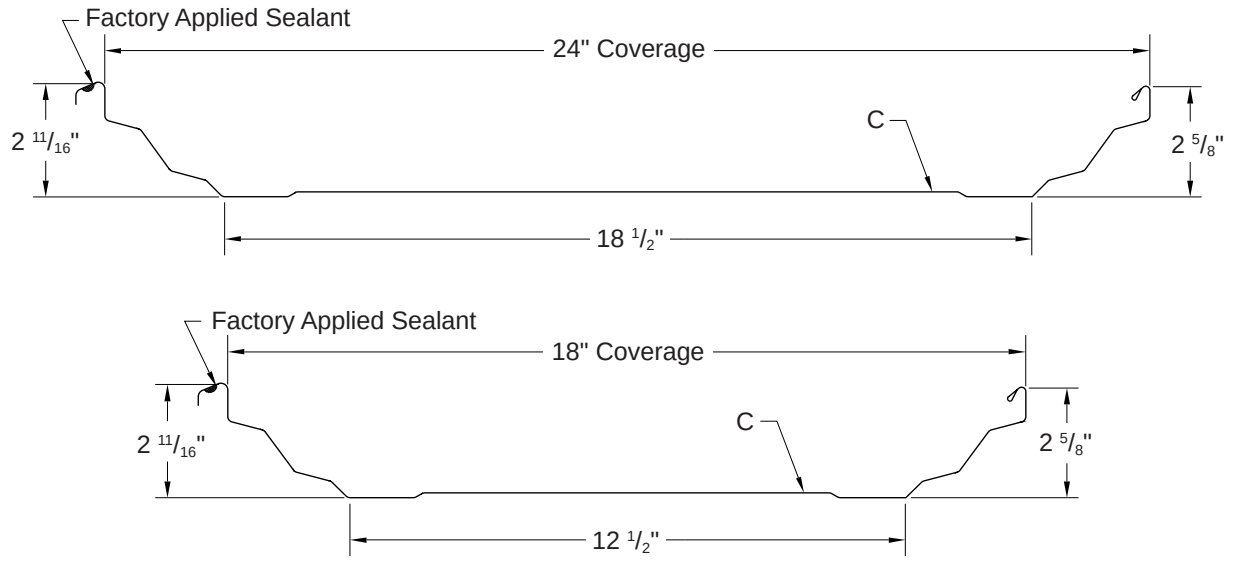
SEAM-LOC 24®

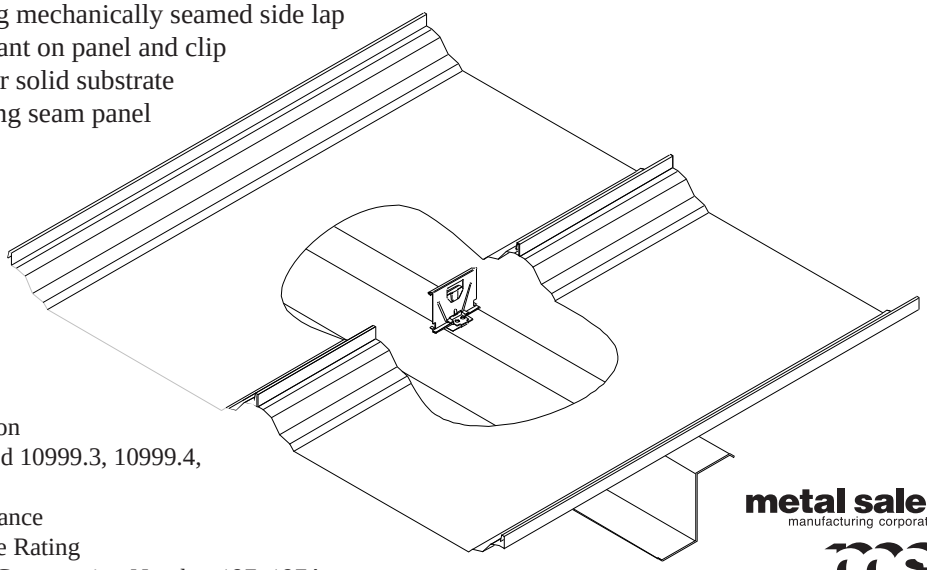
CONDENSED TECHNICAL REFERENCE



COMMERCIAL INDUSTRIAL PANEL | **CONCEALED FASTENERS** | **24" OR 18" COVERAGE** | **MINIMUM 1/4 :12 SLOPE** | **OPEN FRAMING OR SOLID SUBSTRATE**

PANEL OVERVIEW

- Finishes: Kynar 500 (PVDF), and Acrylic Coated Galvalume®
- Gauges: 24ga standard, 22ga optional
- 24" or 18" panel coverage, $2^{11}/_{16}$" rib height
- Concealed clip designed to accommodate thermal movement
- Accommodates $^1/_2$" to 6" blanket insulation
- Panels can be factory notched and punched
- Pittsburgh double flat locking mechanically seamed side lap
- Factory applied side lap sealant on panel and clip
- Applies over open framing or solid substrate
- Structural trapezoidal standing seam panel



TESTING

- UL-263 Fire Resistance Rating
- ASTM E-1680 Air Infiltration
- ASTM E-1646 Water Penetration
- Florida Building Code Approved 10999.3, 10999.4, 10999.5, 10999.6
- UL-2218 Class 4 Impact Resistance
- UL-790 Class A Fire Resistance Rating
- UL-580 Class 90 Wind Uplift, Construction Number 197, 197A
- CEGS-07416 US Army Corps of Engineers Rated-ASTM E-1592

metal sales
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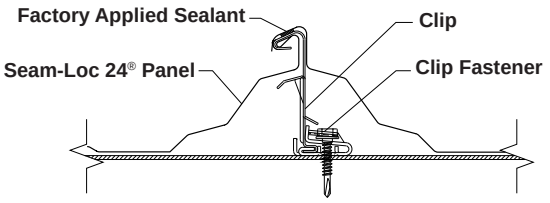
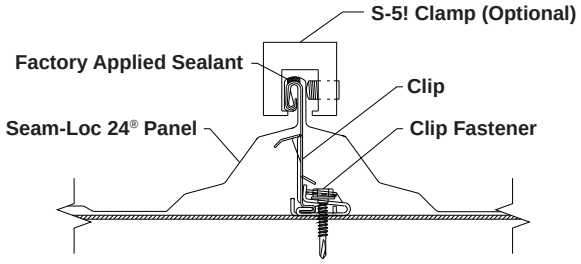
ATTACHMENT DETAILS

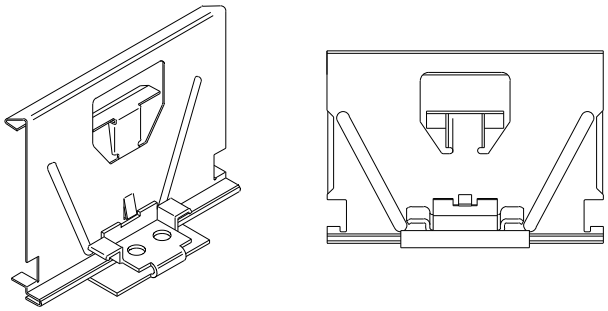


BEFORE SEAMING



AFTER SEAMING

PANEL CLIP



GENERAL INFORMATION

▶ Slope
The minimum recommended slope for the Seam-Loc 24® roof panel is 1/4:12.

▶ Substructure
Seam-Loc 24® is designed to be utilized over open structural framing or a solid substrate.

▶ Clips
Clip spacing is based upon the spacing of structural framing members and loading requirements.

▶ Coverage
Seam-Loc 24® panels are available in a $2^{11}/_{16}$" seam height with a 24" or 18" width coverage.

▶ Length
Minimum factory cut length is 5'-0". Maximum recommended panel length is 45'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult Metal Sales for recommendations.

▶ Fasteners
The fastener selection guide should be consulted for choosing the proper fastener for specific applications. Quantity and type of fastener must meet necessary loading and code requirements.
NOTE: All panels are subject to surface distortion due to improperly applied fasteners. Overdriven fasteners will cause stress and induce oil canning across the face of the panel at or near the point of attachment.

▶ Availability
Finishes: Acrylic Coated Galvalume® or various Kynar 500 (PVDF) colors.
Gauges: 24ga and 22ga

SECTION PROPERTIES

ALLOWABLE UNIFORM LIVE LOADS PSF (3 or More Equal Spans)

Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression		Bottom in Compression		Inward (Gravity / Deflection) Load						Outward Uplift (Stress) Load					
				Ixx In^4/ft	Sxx In^3/ft	Ixx In^4/ft	Sxx In^3/ft	2'	3'	3.5'	4'	4.5'	5'	2'	3'	3.5'	4'	4.5'	5'
24	24"	50	1.10	0.1790	0.0858	0.1035	0.0699	360	171	127	99	78	64	70	59	54	49	43	38
24*	24"	50	1.10	0.1790	0.0858	0.1035	0.0699	360	171	127	99	78	64	131	111	92	79	66	54
24	18"	50	1.09	0.2055	0.0950	0.0920	0.0653	481	228	170	132	105	85	93	78	70	62	54	46
24*	18"	50	1.09	0.2055	0.0950	0.0920	0.0653	481	228	170	132	105	85	169	134	117	100	83	66

1. Theoretical section properties have been calculated per AISI 2001 "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 2001 specifications considering bending, shear, combined bending and shear, deflection, and ASTM E-1592 testing and fastener pullout from 16 ga. supports. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling. 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 in uplift.

* Loads determined using the S-5! Clamp

metal sales manufacturing corporation

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