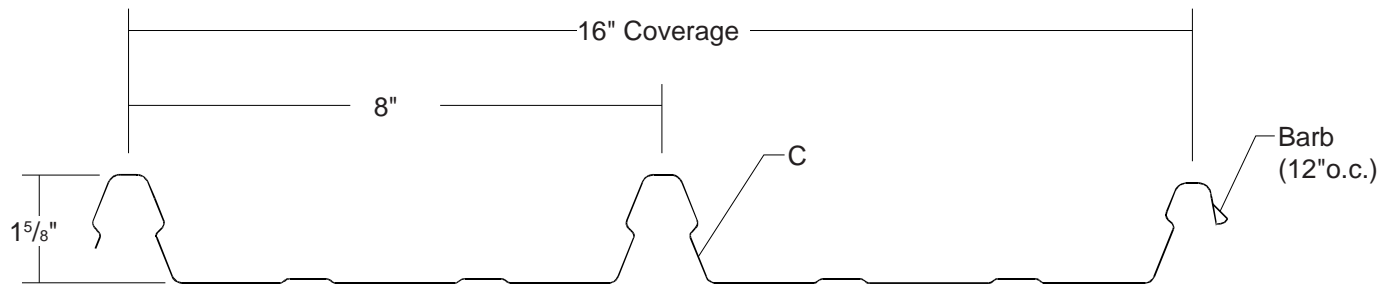


CLIP-LOC



COMMERCIAL
INDUSTRIAL
PANEL

CONCEALED
FASTENERS

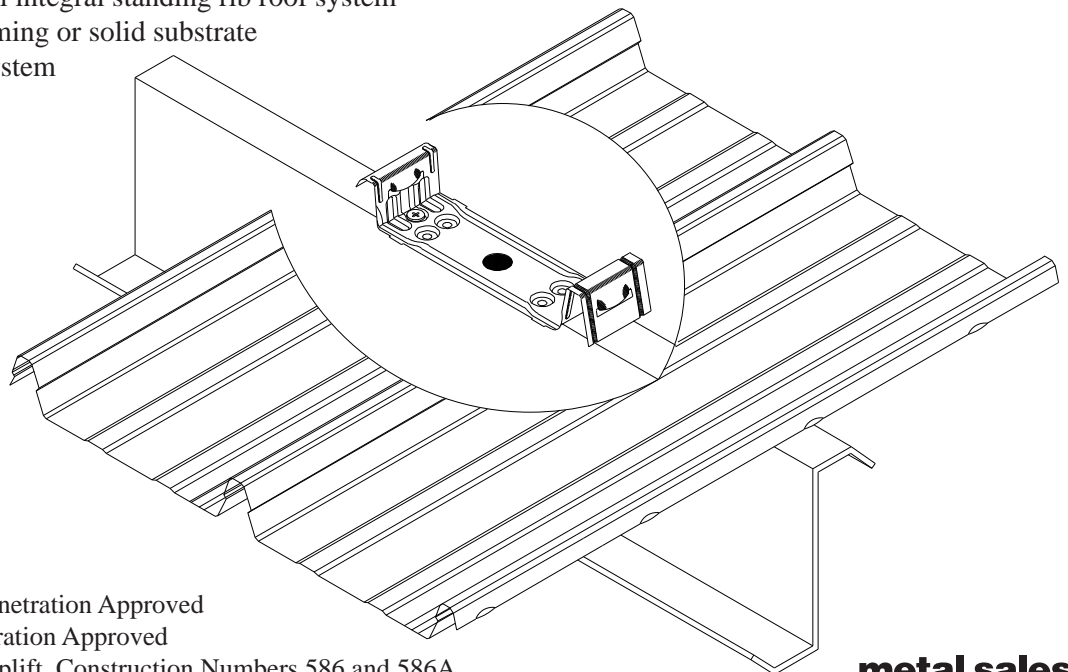
16"
COVERAGE

MINIMUM
1:12 SLOPE

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: Kynar 500 (PVDF) and Acrylic Coated Galvalume®
- ▶ Gauges: 26ga and 24ga standard, 22ga optional
- ▶ 16" panel coverage, 1⁵/₈" rib height
- ▶ Concealed clip designed to accommodate thermal movement
- ▶ Concealed clip system to accommodate up to 4" blanket insulation
- ▶ Architectural/structural integral standing rib roof system
- ▶ Applies over open framing or solid substrate
- ▶ Snap together panel system
- ▶ 1:12 slope minimum



TESTING

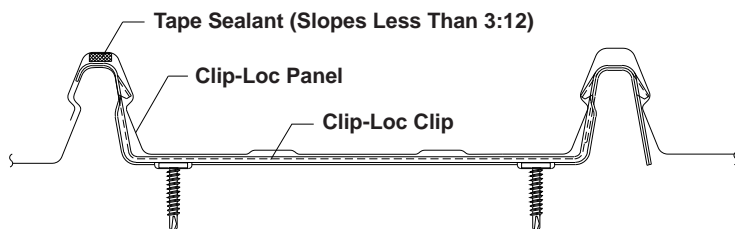
- ▶ Rated ASTM E-1592
- ▶ ASTM E-1646, Water Penetration Approved
- ▶ ASTM E-1680, Air Infiltration Approved
- ▶ UL 580 Class 90 Wind Uplift, Construction Numbers 586 and 586A
- ▶ UL 1897, Uplift Resistance: 24ga, 22ga
- ▶ UL 263, Fire Resistance Rating
- ▶ AISI 1996 Cantilever test method for cold-formed steel diaphragm: 26ga.

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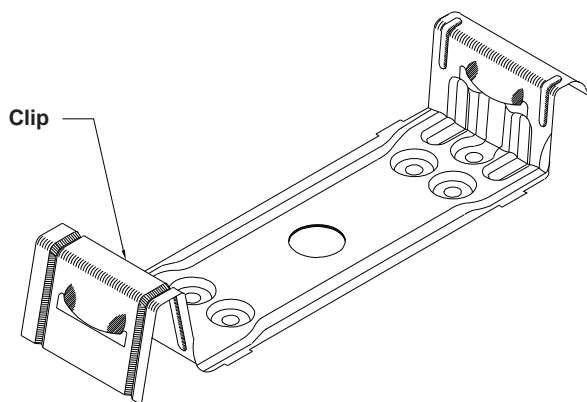
ms

CLIP-LOC

ATTACHMENT DETAIL



PANEL CLIP



GENERAL INFORMATION

► Slope

The minimum recommended slope for the Clip-Loc roof panel is 1:12.

► Substructure

Clip-Loc 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

Clip-Loc panels are available in a 1⁵/₈" seam height with a 16" 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: 26ga, 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						
				I _{xx} In ⁴ /ft	S _{xx} In ³ /ft	I _{xx} In ⁴ /ft	S _{xx} In ³ /ft	2.5'	3'	3.5'	4'	4.5'	5'	2.5'	3'	3.5'	4'	4.5'	5'
26	16"	50	0.99	0.0905	0.0748	0.0466	0.0566	175	128	97	76	61	50	45	42	40	37	35	32
24	16"	50	1.30	0.1178	0.0979	0.0638	0.0756	231	169	129	101	81	67	66	59	51	44	37	29
22	16"	50	1.69	0.1515	0.1264	0.0870	0.1001	302	222	169	133	107	88	109	107	105	103	101	99

- Theoretical section properties have been calculated per AISI 2001 "Specification for the Design of Cold-formed Steel Structural Members." I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2001 specifications considering bending, shear, combined bending and shear, deflection, and applicable testing when available. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection and 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 in uplift.

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