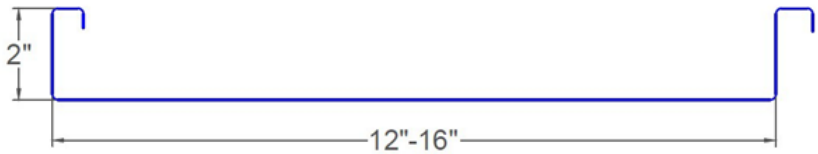
ALLSTEEL INC.
"STEEL'S THE DEAL"

Alaska's Largest Manufacturer of Commercial and Residential Steel Building Components

2" Mechanical - Panel



The ultimate for low slope, high loads, and extreme weather roofing applications.
This roofing can be put on over solid sheeting or open framing.
These panels attach to the build via clips that also a join two panel together. After the panels are laid a roll former called a power seamer is ran on each side lap, folding the two panels and the attachment clip together making the entire roof one continuous sheet of roofing.

Testing:

UL-580 Class 90
UL-790 Class A
UL-2218 Impact
ASTM E 1646
ASTM E 1680
ASTM E 1592

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2" Mech. Seam - 16"

	Live Load (Strength) psf					Wind Uplift Load (Internal Pressure) psf				
Span (ft)	2.5'	3'	3.5'	4'	4.5'	2'	2.5'	3'	4'	5'
24 GA simple span	210	180	153	132	112					
24 GA continuous span	152	122	105	89	71	156	142	122	95	62
22 GA simple span	319	269	225	186	120					
22 GA continuous span	178	150	128	112	90	201	176	159	115	74

2" Mech. Seam - 12"

		Live Load (Strength) psf				Wind Uplift Load (Internal Pressure) psf				
Span (ft)	2.5'	3'	3.5'	4'	4.5'	2'	2.5'	3'	4'	5'
24 GA simple span	280	236	199	178	144					
24 GA continuous span	246	163	125	118	108	181	168	147	115	85
22 GA simple span	428	355	302	243	190					
22 GA continuous span	232	197	171	145	119	190	174	155	121	92

			Weight			
Gauge	Grade	Paint	2" Mech. Seam - 16"		2" Mech. Seam - 12"	
24	50	Kynar	2.13 lb/LF	160 lb/SQ	1.75 lb/LF	175 lb/SQ
22	50	Kynar	2.59 lb/LF	194 lb/SQ	2.12 lb/LF	212 lb/SQ

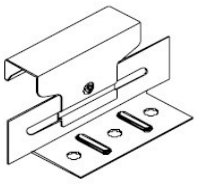
Steel Yield Stress: 50,000 psi
G-90, AZ-50, or Weathering Steel

1 ½" Bearing Length
Load Span Tables Based on Working Stress.
Continuous Span Loading applies to sheets continuous over three or more spans. Weight of sheet has not been allowed for when calculating live load and uplift. Deflection (L/180) limiting live load based on deflection of span.
Metal thickness based on minimum ASTM specifications for allowable load calculations. Wind Uplift Loads in accordance to ASTM E-1592. Use factor of safety for Design Loads.

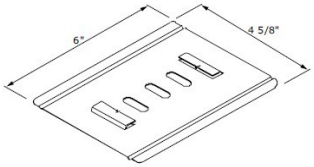
Note: The load tables have been compiled for the design of steel roofing and siding used in conjunction with either wood or steel framed structures. ALL STEEL INC. assumes no responsibility, either expressed or implied, for its use.

All gauges conform to ASTM A446 Grade 50 (50,000 min. yield) unless otherwise designated at time of order.

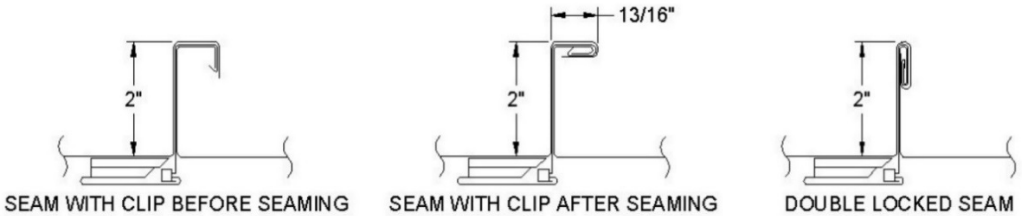
2" Mech. Seam



Clip



Bearing Plate



SEAM WITH CLIP BEFORE SEAMING | SEAM WITH CLIP AFTER SEAMING | DOUBLE LOCKED SEAM

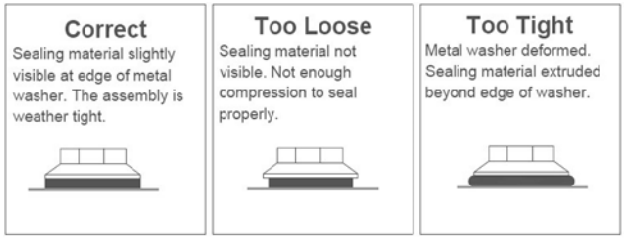
FASTENING

Screw fasteners have been proved to have two to three times the holding power of nails. Screws should have a minimum penetration of 5/8" into wood. Generally, #10 x 1" Pancake Head screw fasteners are used for concealed fastener panels. 1” Snap Seam panels are fastened through pre-punched slots in the lower lap screw flange. 1.75” Thin Seam and 2” Mechanical Seam panels are attached with their respective clips, 2 screws per clip. Bearing plates are used under clips when installing panels over rigid insulation.

Nails are not recommended!

The use of nails to fasten panels is NOT recommended and will void any warranty

FASTENER#	DESCRIPTION	USE
1.	 No. 8 x 1” Modified Truss Head Wood Screw	Panel to wood deck or trim to wood attachments (unexposed)
2.	 No. 12 x 3/4” Stitch Screw	Panel to panel or trim to panel attachments. May be used as an alternative to blind rivets
3.	 No. 14 x 1” Metal-Wood	Panel to wood deck at valleys, eave start panel at gable attachments, and endlaps (exposed)
4.	 STST-42 Stainless Steel Rivet 1/8” x 1/8”	Trim to trim attachments (lapped joints)
5.	 No. 10-12x1” Pancake Head Wood Screw	Use when fastening panel to wood deck for increased wind uplift resistance (unexposed)



DO NOT OVERDRIVE Exposed fasteners so as to dimple or distort the panel accessories.

Washers should be in firm contact with the panel.

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