



Condensed

VERTICAL SEAM

ATTACHMENT DETAIL

FASTENING INFORMATION

► Clips

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

 Clips are 0.050" thick. G90 is standard, 304 stainless is optional. 2 fastener holes is standard, 3 holes is optional.
 Clips can accommodate practically unlimited thermal movement.

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Technica Reference

► Fasteners

 Overdriven fasteners will cause panel distortions.
 Fasteners to wood and steel should extend 1/2" or more past the inside face of the support material.

Clip Fasteners and Concealed End Fasteners: Attaching to Wood: #10-12 Pancake Head Wood Screw Attaching to Steel: /// TapCon, Phillips Flat Head
Exposed End Fasteners: Attaching to Wood: #10-14 XL Wood Screw

Attaching to Steel: #12-14 XL Driller

Trim Fasteners: 1/4"-14 x 7/8" XL Stitch Screw 1/8" x 3/16" Pop Rivet

SECTION PROPERTIES

UL90 CLIP 2 Fasteners

ALLOWABLE UNIFORM LOADS, psf For various clip spacings

										i or various city spacings											
	Width	Yield ksi	Weight psf	Top In Compression		Bottom In Compression		Inward Load					Outward Load								
Ga				lxx	Sxx	Ixx	Sxx														
		KOI	psi	in⁴/ft	in³/ft	in⁴/ft	in³/ft	2.5'	3'	3.5'	4'	4.5'	5'	2.5'	3'	3.5'	4'	4.5'	5'		
26	12	50	1.06	0.0783	0.05320	0.0370	0.0405	148	104	76	59	-	-	55	49	42	36	-	-		
26	16	50	0.97	0.0617	0.0403	0.0278	0.0304	111	78	57	44	-	-	55	49	42	36	-	-		
26	18	50	0.94	0.0560	0.0359	0.0247	0.0270	-	-	-	-	-	-	-	-	-	-	-	-		
24	12	50	1.38	0.1120	0.0777	0.0525	0.0554	204	142	105	80	64	52	44	43	42	41	40	39		
24	16	50	1.26	0.0885	0.0590	0.0398	0.0416	153	107	79	60	48	39	42	38	34	30	27	24		
24	18	50	1.22	0.0807	0.0527	0.0353	0.0369	136	95	70	54	42	34	33	30	27	24	20	19		
22	12	50	1.81	0.1534	0.1072	0.0763	0.0768	283	197	145	111	88	71	69	67	65	62	60	58		
22	16	50	1.66	0.1230	0.0823	0.0578	0.0577	212	148	109	84	66	54	54	51	48	45	36	35		
22	18	50	1.60	0.1113	0.0737	0.0513	0.0513	189	132	97	74	59	48	31	30	29	29	28	27		

1. 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.

2. Allowable loads are calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending & shear, deflection and ASTM E 1592 uplift testing for 24 ga and 22 ga and UL 580 uplift testing for 26 ga. Allowable loads do not address web crippling, fasteners or support material. Allowable loads consider the three or more equal spans condition. 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.
- Indicates that no testing is available for the application.

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