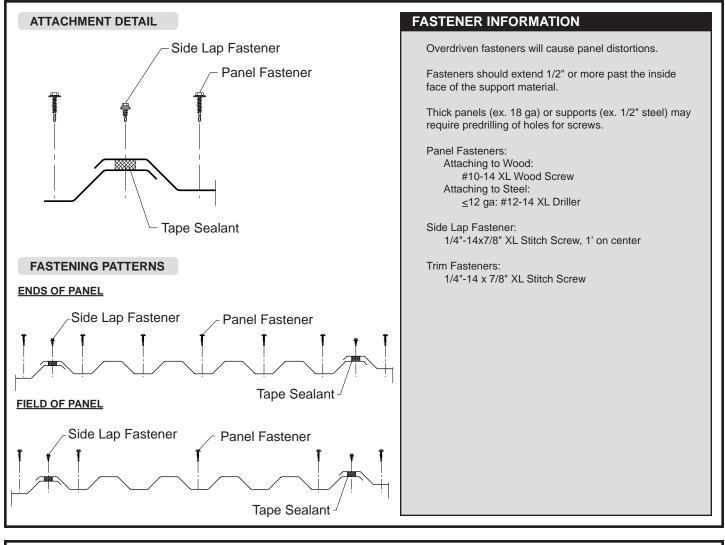


IC72-PANEL ROOF

Condensed Technical Reference



SECTION PROPERTIES									ALLOWABLE UNIFORM LOADS, psf For various fastener spacings											
Ga	Width in	Yield ksi	Weight psf	Top In Compression Bottom In Compression			Inward						Outward							
				lxx in⁴/ft	Sxx in³/ft	lxx in⁴/ft	Sxx in³/ft	Load					Load							
								4'	5'	6'	7'	8'	9'	4'	5'	6'	7'	8'	9'	
26	36	50	0.88	0.0707	0.0817	0.0653	0.0663	88	58	41	31	24	19	104	70	50	37	29	22	
24	36	50	1.15	0.1000	0.1208	0.0987	0.1076	149	97	68	50	39	29	165	108	76	56	41	29	
22	36	50	1.51	0.1400	0.1757	0.1400	0.1557	220	142	100	73	54	38	246	160	112	80	54	38	
20	36	33	1.85	0.1900	0.2450	0.1900	0.2223	208	135	94	69	53	42	228	148	103	76	58	46	
18	36	33	2.45	0.2700	0.3300	0.2667	0.3230	300	195	136	100	77	61	306	199	139	103	79	61	

1. Theoretical section properties have been calculated per AISI 2007 '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 load is calculated in accordance with AISI 2007 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing. 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.

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