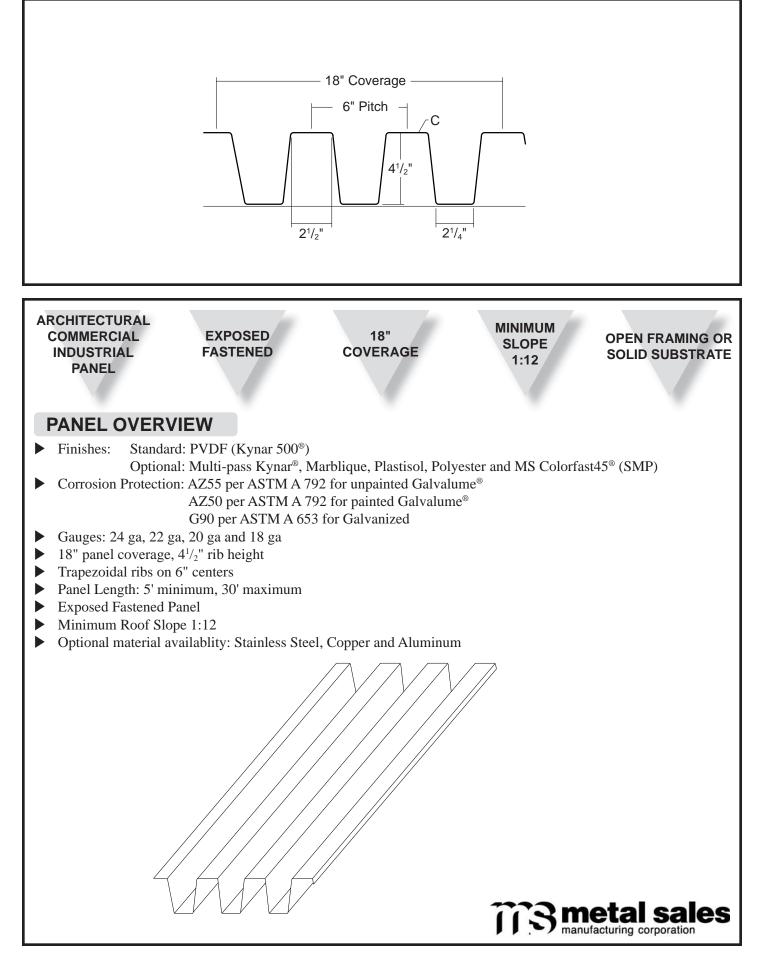
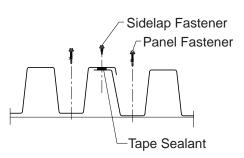
## TDR-6 ROOF PANEL



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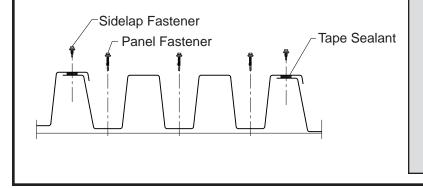
## Condensed Technical Reference





FASTENING PATTERN

### Ends and Field of Panel



### FASTENER INFORMATION

Overdriven fasteners will cause panel distortion.

Panel fasteners should extend 1/2" or more past the inside face of the support material.

Thick panels (ex. 18 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.

Panel Fastener: Attaching to Wood: #10-14 XL Wood Screw

> Attaching to Steel: #12-14 XL Self Drilling Screw

Sidelap Fastener: 1/4"-14 x 7/8" XL Stitch Screw

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

SECTION PROPERTIES								ALLOWABLE UNIFORM LOADS, psf For various fastener spacings												
Ga	Width in	<b>Yield</b> ksi	Weight psf	Top in Co	mpression	Bottom in Compression		Inward						Outward						
				Ixx	Sxx in³/ft	<b>Ixx</b> in⁴/ft	Sxx in³/ft	Load					Load							
				in⁴/ft				5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'	
24	18	50	2.20	1.3407	0.5100	1.3140	0.4551	195	155	126	88	64	49	204	164	135	95	70	53	
22	18	50	2.89	2.0093	0.8363	1.9713	0.7372	372	289	230	155	111	83	399	313	251	171	123	93	
20	18	33	3.53	2.7073	1.1949	2.7907	1.1373	445	334	260	169	119	88	463	349	272	177	125	92	
18	18	33	4.65	3.7453	1.6221	3.8467	1.6061	600	487	376	243	170	125	600	491	379	245	171	126	

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 loads are calculated in accordance with AISI 2007 specifications considering bending, shear, combined bending and shear and deflection. Allowable loads consider the 3 or more equal span condition. Allowable loads do 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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