

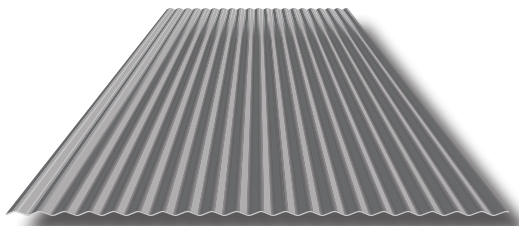
Corrugated Panels

Metal Sales Manufacturing Corporation

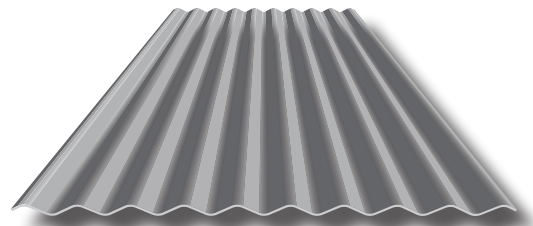


Metal Roof & Wall Panels with a Classic Look

- ▶ Choose from MS Colorfast45[®], Acrylic Coated Galvalume[®] or PVDF
- ▶ Installs over open framing or a solid substrate
- ▶ 29 and 26 standard, 24 gauge optional
- ▶ Minimum 3:12 slope



1.25" Corrugated Panel



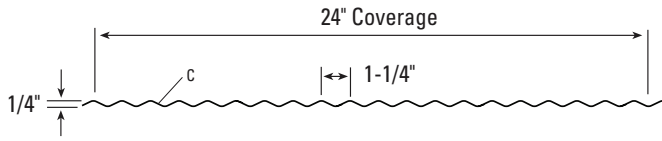
2.5" Corrugated Panel

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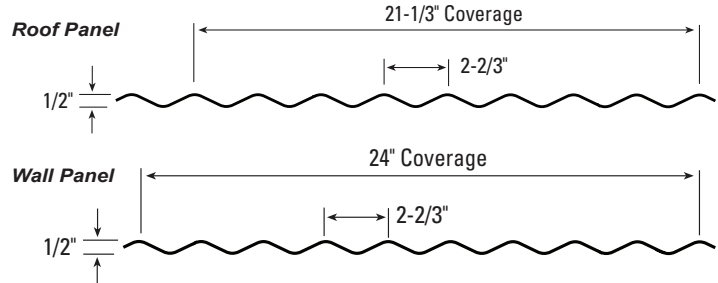
MS Metal Sales[™]

Corrugated Panels

1.25" CORRUGATED PANEL PROFILE



2.5" CORRUGATED PANEL PROFILE



GENERAL INFORMATION

► **Substructure:** Corrugated Panels are designed to be utilized over a solid substrate with a minimum 30# felt underlayment. To avoid panel distortion, use a properly aligned and uniform substructure.

► **Fastener:** Attaching to Wood: #10-14 Wood Screw or #10-14 XL Wood Screw for Galvalume® finish.

1.25" CORRUGATED TESTING

- ▷ UL 2218 Impact Resistance: Class 4
- ▷ UL 790 Fire Resistance Rating: Class A, per building code
- ▷ UL 263 Fire Resistance Rating: per assembly

2.5" CORRUGATED TESTING

- ▷ UL 263 Fire Resistance Rating: per assembly
- ▷ UL 790 Fire Resistance Rating: Class A, per building code
- ▷ UL 2218 Impact Resistance: Class 4
- ▷ Texas Dept of Insurance Evaluation Report: RC-159
- ▷ ICC Evaluation Report: ESR-2385
- ▷ 2023 FBC Approval: FL14645.1

1.25" CORRUGATED LOAD TABLE

ROOF/WALL SECTION PROPERTIES								ALLOWABLE UNIFORM LOADS, psf For various fastener spacings											
Ga.	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression		Inward Load						Outward Load					
				lxx in ⁴ /ft	Sxx in ³ /ft	lxx in ⁴ /ft	Sxx in ³ /ft	1'	1.25'	1.5'	1.75'	2'	2.5'	1'	1.25'	1.5'	1.75'	2'	2.5'
29	24	80	0.64	0.0010	0.0070	0.0010	0.0067	167	86	50	31	21	11	167	86	50	31	21	11
26	24	80	0.81	0.0015	0.0087	0.0015	0.0085	196	126	74	47	31	16	202	113	65	41	27	14

2.5" CORRUGATED LOAD TABLES

ROOF SECTION PROPERTIES								ALLOWABLE UNIFORM LOADS, psf For various fastener spacings													
Ga.	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression		Inward Load						Outward Load							
				lxx in ⁴ /ft	Sxx in ³ /ft	lxx in ⁴ /ft	Sxx in ³ /ft	2'	2.5'	3'	3.5'	4'	4.5'	2'	2.5'	3'	3.5'	4'	4.5'		
																				in ⁴ /ft	in ³ /ft
29	21.33	80	0.70	0.0056	0.0215	0.0055	0.0204	120	62	36	22	15	11	120	62	36	22	15	11		
26	21.33	80	0.90	0.0073	0.0275	0.0073	0.0274	153	78	45	29	19	13	153	78	45	29	19	13		
24	21.33	50	1.17	0.0096	0.0354	0.0096	0.0354	200	102	59	37	25	18	200	102	59	37	25	18		

WALL SECTION PROPERTIES								ALLOWABLE UNIFORM LOADS, psf For various fastener spacings													
Ga.	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression		Inward Load						Outward Load							
				lxx in ⁴ /ft	Sxx in ³ /ft	lxx in ⁴ /ft	Sxx in ³ /ft	2'	2.5'	3'	3.5'	4'	4.5'	2'	2.5'	3'	3.5'	4'	4.5'		
																				in ⁴ /ft	in ³ /ft
29	24	80	0.62	0.0050	0.0070	0.0049	0.0181	107	55	32	20	13	9	107	55	32	20	13	9		
26	24	80	0.80	0.0065	0.0089	0.0065	0.0244	136	70	40	25	17	12	136	70	40	25	17	12		
24	24	50	1.04	0.0084	0.0089	0.0084	0.0315	176	90	52	33	22	15	176	90	52	33	22	15		

1. Theoretical section properties have been calculated per AISI 2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. lxx and Sxx are effective section properties for deflection and bending.
2. Allowable load is calculated in accordance with AISI 2016 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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