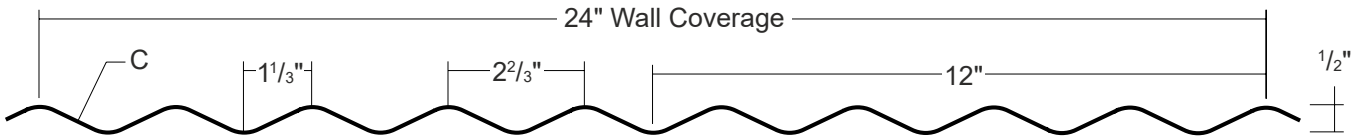
2.5” Corrugated - Wall - Technical Sheet

WALL PANEL



COMMERCIAL RESIDENTIAL PANEL

EXPOSED FASTENED

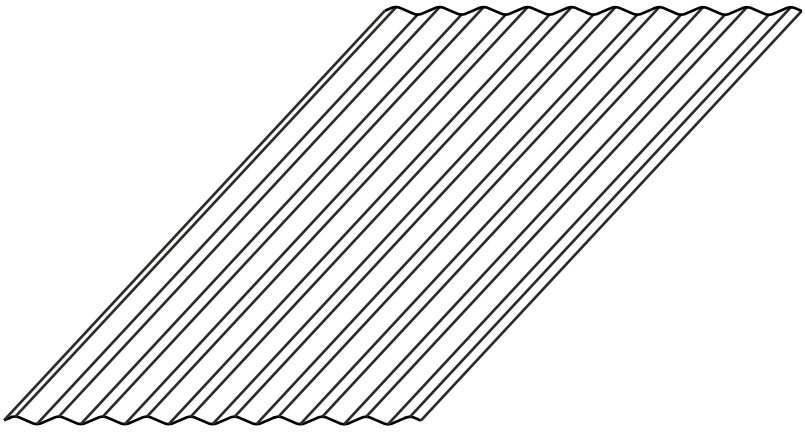
24" COVERAGE

WALL PANEL

OPEN FRAMING OR SOLID SUBSTRATE

PANEL OVERVIEW

- Finishes: Painted®, Acrylic-Coated Galvalume® and Bare Galvanized
- Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®
  AZ50 per ASTM A 792 for painted Galvalume®
  G60, G90 or G100 per ASTM A 653 for Galvanized
- Gauges: 30 ga, 29 ga and 26 ga standard; 24 ga and 22 ga optional
- 24" panel coverage, 1/2" rib height
- Panel Length: Minimum: 3'; Maximum: 30' recommended
- Exposed fastened, low profile roof system
- Corrugated ribs on 2 2/3" centers



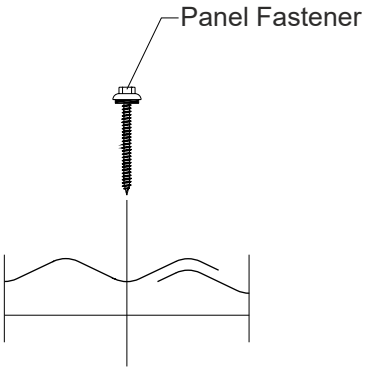
TESTING AND APPROVALS

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

BEST BUY METALS
Roofing That Lasts

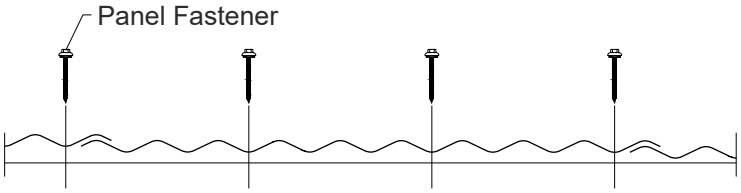
2.5” Corrugated - Wall - Technical Sheet

ATTACHMENT DETAILS



FASTENING PATTERN

Ends and Field of Panel



FASTENER INFORMATION

Overdriven fasteners will cause panel distortions.

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 Fasteners:
- Attaching to Wood:
  - #10-14 Wood Screw
  - #10-14 XL Wood Screw
- Attaching to Steel:
  - #12-14 Self Drilling Screw
  - #12-14 XL Self Drilling Screw

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

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					
				Ixx in^4/ft	Sxx in^3/ft	Ixx 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'
30	24	80	0.59	0.0045	0.0180	0.0045	0.0165	96	49	28	18	12	8	96	49	28	18	12	8
29	24	80	0.62	0.0050	0.0191	0.0050	0.0185	105	54	31	20	13	9	105	54	31	20	13	9
26	24	50	0.80	0.0065	0.0245	0.0065	0.0244	136	70	40	25	17	12	136	70	40	25	17	12
24	24	50	1.04	0.0085	0.0315	0.0085	0.0315	178	91	53	33	22	16	178	91	53	33	22	16
22	24	50	1.36	0.0110	0.0407	0.0110	0.0407	230	118	68	43	29	20	230	118	68	43	29	20

1. Theoretical section properties have been calculated per AISI 2012 '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 2012 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.