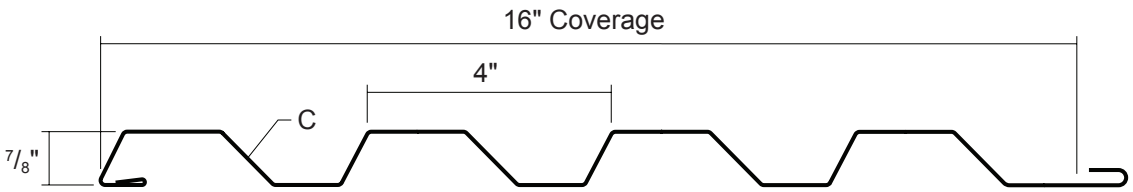
CN88-164 WALL

Condensed Technical Reference

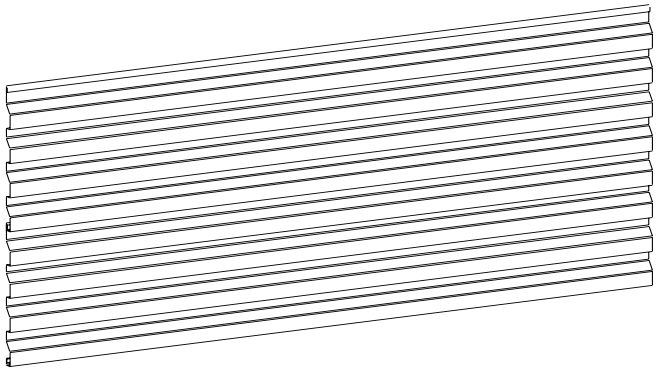
CONTEMPRA SERIES™

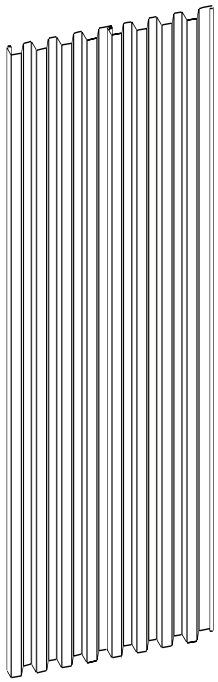


ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL | **CONCEALED FASTENED** | **16" COVERAGE** | **WALL AND LINER PANEL** | **OPEN FRAMING OR SOLID SUBSTRATE**

PANEL OVERVIEW

- Finish: Standard: PVDF and Acrylic-Coated Galvalume®
  Optional: multi-pass Kynar 500® and Fluropon® PURE
- Corrosion Protection: AZ50 per ASTM A 792 for Painted Galvalume®
  AZ55 per ASTM A 792 for Acrylic-Coated Galvalume®
  G90 per ASTM A 653 for Painted Galvanized
- Gauges: 24 ga standard; 22 ga and 20 ga optional
- 16" panel coverage, 7/8" panel height
- Assymmetrical ribs on 4" centers
- Clip-attached, concealed-fastened panel system
- Panel Length: 5' minimum, 30' maximum
- Panels can be installed horizontally or vertically
- Panels are interchangeable for accent effects
- Use on single-skin or field-assembled wall systems





TESTING

- ASTM E 283 Air Leakage
- ASTM E 331 Water Penetration
- ASTM E 330 Load Test
- ASTM E 1592 Load Test

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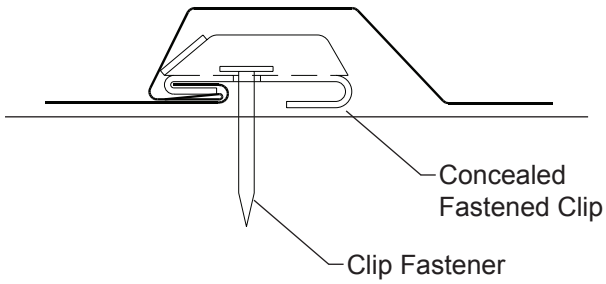
ATTACHMENT DETAIL



FASTENING INFORMATION

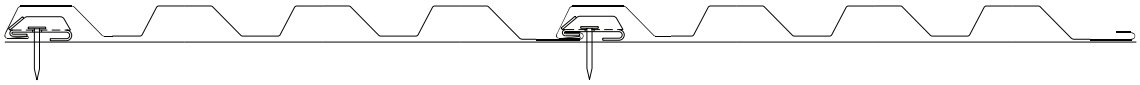
- Concealed Fastened Clip is 2-1/4" x 1-3/4" x 3/4", from 16 ga, G90 material with 2 fastener holes.
- Clip Fasteners should be driven just to contact between fastener head / clip / panel / support. Beyond contact, the clip can crush the open hem of the panel and make engagement of the next panel difficult. Overdriven fasteners will cause panel distortions.
- Fasteners should extend 1/2" or more past the inside face of the support material for steel and wood sheathing support materials.
- Clip Fasteners:
  - Attaching to Wood:
    - #12-11 Low Profile Wood Screw
  - Attaching to Steel:
    - < 18 ga: 1/4"-13 Deck Screw
    - ≥ 18 ga, ≤ 12 ga: #10-16 Pancake Head Driller
    - > 12 ga: 1/4"-14 Self Driller, No Washer

INSTALLATION DIRECTION

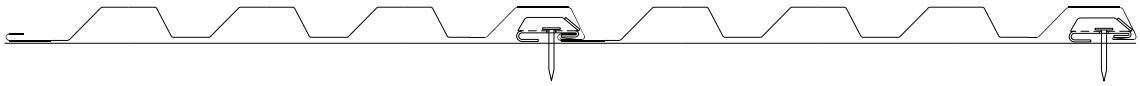
Horizontally-oriented panels must be installed from the bottom to the top.

Vertically-oriented panels may be installed from the right-to-left or left-to-right.

Left-to-Right Installation of Vertically-Oriented Panels



Right-to-Left Installation of Vertically-Oriented Panels



SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf For various clip 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'	3'	4'	5'	6'	2'	3'	4'	5'	6'
24	16	50	1.27	0.0398	0.0779	0.0443	0.0894	120	97	71	47	23	40	33	26	20	13
22	16	50	1.66	0.0570	0.1142	0.0608	0.1265	120	97	71	47	23	40	33	26	20	13
20	16	33	2.01	0.0758	0.1619	0.0758	0.1595	120	97	71	47	23	40	33	26	20	13

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 load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending & shear, deflection and load testing of comparable profiles on 16 ga girts. Allowable load does not consider other support conditions such as, web crippling, fasteners, support material or load testing of this profile. Panel weight is not considered.
3. Allowable load considers the 3 or more equal spans condition.
4. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
5. Allowable loads do not include a 1/3 stress increase for wind.

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