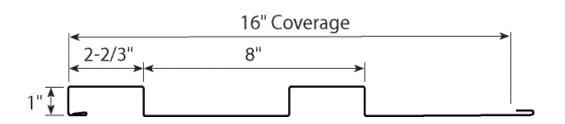
EM1-168 WALL

11 SERIES



ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL

CONCEALED FASTENERS

16" COVERAGE WALL AND LINER PANEL

OPEN FRAMING OR SOLID SUBSTRATE

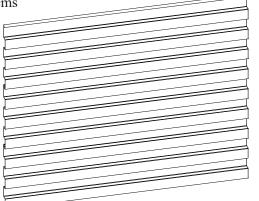
PANEL OVERVIEW

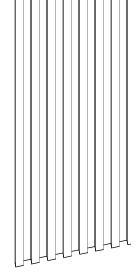
- ► Finish: Standard: PVDF and Acrylic-Coated Galvalume® Optional: multi-pass PVDF and Fluropon® PURE
- ► Corrosion Protection: AZ50 per ASTM A 792 for Painted Galvalume®

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, 1" panel height, box ribs on 8" 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

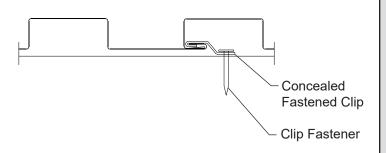
- ► ASTM E 283 Air Leakage, with building wrap
- ► ASTM E 331 Water Penetration, with building wrap
- ► ASTM E 330 Load Test
- ► ASTM E 1592 Load Test
- 2023 FBC Approval FL34027.3

Metal Sales

EM1-168 WALL

Condensed Technical Reference

PANEL ATTACHMENT



FASTENING INFORMATION

- Concealed Wall Clip 4" Low is 1-3/4" x 4" x 3/8", from 16 ga, G90 material with 2 fastener holes.
- Clip Fastener(s) should be driven just to contact between fastener head / clip / panel / support. 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

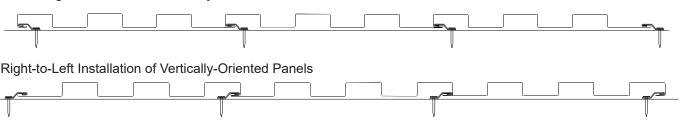
> 12 ga: 1/4"-14 Self Driller, No Washer

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



| SECTION PROPERTIES | | | | | | | | | ALLOWABLE UNIFORM LOADS, psf For various fastener spacings | | | | | | | | | |
|--------------------|-------------|---------------------|---------------|----------------------|---------------|----------------------------|---------------|--------------|--|----|----|--------------|--------------|----|----|----|----|--|
| Ga | Width in | Yield ksi | Weight psf | | mpression | Bottom In Compression | | Inward Load | | | | | Outward Load | | | | | |
| | | | | lxx in⁴/ft | Sxx in³/ft | lxx in ⁴ /ft | Sxx in³/ft | IIIwaru Loau | | | | Outward Load | | | | | | |
| | | | | | | | | 2' | 3' | 4' | 5' | 6' | 2' | 3' | 4' | 5' | 6' | |
| 24 | 16 | 50 | 1.39 | 0.0495 | 0.0729 | 0.0533 | 0.0911 | 120 | 97 | 71 | 47 | 23 | 70 | 58 | 45 | 33 | 21 | |
| 22 | 16 | 50 | 1.81 | 0.0713 | 0.1094 | 0.0750 | 0.1340 | 120 | 97 | 71 | 47 | 23 | 70 | 58 | 45 | 33 | 21 | |
| 20 | 16 | 33 | 2.21 | 0.1005 | 0.1658 | 0.1020 | 0.1967 | 120 | 97 | 71 | 47 | 23 | 70 | 58 | 45 | 33 | 21 | |

- 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.
- 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.