EM1-1212 CF WALL

ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL

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
- 12" panel coverage, 1" panel height, 12" rib spacing
- 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
**FASTENING INFORMATION**

- Concealed Fastened Clip is 3" 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.

**SECTION PROPERTIES**

<table>
<thead>
<tr>
<th>Ga</th>
<th>Width in</th>
<th>Yield ksi</th>
<th>Weight psf</th>
<th>Top In Compression</th>
<th>Bottom In Compression</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ixx in^2/ft</td>
<td>Sxx in^2/ft</td>
</tr>
<tr>
<td>24</td>
<td>12</td>
<td>50</td>
<td>1.25</td>
<td>0.0297</td>
<td>0.0355</td>
</tr>
<tr>
<td>22</td>
<td>12</td>
<td>50</td>
<td>1.66</td>
<td>0.0442</td>
<td>0.0538</td>
</tr>
<tr>
<td>20</td>
<td>12</td>
<td>33</td>
<td>2.00</td>
<td>0.0635</td>
<td>0.0799</td>
</tr>
</tbody>
</table>

1. Theoretical section properties have been calculated per AISI 2016 ‘North American Specification for the Design of Cold-Formed Steel Structural Members’.
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.