Technical Information

Panel Strength
- (1) Flexural Strength = 1012 in-lbs (ASTM C880)
- (2) Tensile Bond = 239 psi (ASTM D897)
- (5) Flatwise Tension = 290 psi (ASTM C-67)
- (10) Racking Shear = 5000 lbs (+) (ASTM E-72)
- (12) Flexural = 479 psi positive (ASTM E-72-05)
  430 psi negative (35.5" span)

See summaries of tests results in TESTING section. Complete test reports available upon request.

Product Data

Average Weight: 3.3 pounds / sq. ft. (16 kg/sq. m)
Standard panel dimensions: 4' x 8' (1219 x 2438mm)
Maximum panel dimensions: 5' x 10' (1524 x 3048mm) Ltd. Availability
Overall panel thickness: 15/16 in. +/- 1/16 in. (24mm +/- 1.6mm)
Tolerances (length, width & squareness): +/- 1/16 in. (+/- 1.6mm)
Aluminum honeycomb thickness: 3/4 in. (19mm)

HONEYCOMB WALL THICKNESS = .003" [.0762mm]

3.5/8" X 3 1/2" X 14ga. ATTACHMENT PLATE
PULLOUT: 1601lbs
PUSHTHROUGH: 2790lbs (13) (ASTM D1761)
LATERAL SHEAR: 2241lbs

INTERLOCKING CHANNELS: ALUM. ALLOY 6063
TYP. WALL THICKNESS: .094in [2.4mm]
Installation on a Lightweight Façade

Lateral Load Capacity

Based upon 15/16 in. panel thickness & L/240 deflection limit (ASTM C393)

<table>
<thead>
<tr>
<th>UNIFORM LOAD (PSF)</th>
<th>25</th>
<th>44</th>
<th>52</th>
<th>68</th>
<th>102</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN (INCHES)</td>
<td>48</td>
<td>36</td>
<td>32</td>
<td>24</td>
<td>16</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm, 1 psf = 47.99 Pa.
Maximum vertical spacing of panel attachments to the supporting is 24 inches

Panel Properties

- E_{\text{panel}} = 10,000,000 \text{ psi} \quad \text{[young's modulus of elasticity]}
- S_{x+} = 0.1074 \text{ in}^3 \quad \text{[positive section modulus]}
- S_{x-} = 0.1021 \text{ in}^3 \quad \text{[negative section modulus]}
- I_{\text{panel}} = 0.0813 \text{ in}^4 \quad \text{[moment of inertia]}

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