## Senturion Systems Methods of Attachment

### Technical Bulletin

#### Senturion™ I

**Fire Test Results:**
UBC Standard 26-9 (Formerly 17-6)/NFPA 285 Intermediate Scale Fire Test
Successfully meets all of the test criteria.

**NFPA 268/ Radiant Heat Exposure**
Satisfies conditions of acceptance. No ignition upon 20 minute radiant heat exposure at 1.25 W/cm².

**Physical Test Results:**
ASTM E331 Modified—drainage performance and drying potential of Class PB EIFS
Pass

ASTM E330—wind-load
Assembly components: steel stud framing—(18 gauge), 406 mm (16") o.c.; sheathing—11.7 mm (15/32") exterior grade exposure 1 plywood; housewrap; expanded polystyrene insulation board; mechanical fasteners; Senergy Base Coat/FLEXGUARD 4 Reinforcing Mesh; and Senergy Finish Coat.

<table>
<thead>
<tr>
<th>Assembly Specifics</th>
<th>Average Ultimate Loads:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPS thickness—25 mm (1&quot;)</td>
<td>- 4166 Pa (- 87 psf) + 3016 Pa (+ 63 psf)(no failure)</td>
</tr>
<tr>
<td>See Figure 1</td>
<td></td>
</tr>
<tr>
<td>EPS thickness—38 mm (1.5&quot;)</td>
<td>- 6224 Pa (- 130psf) + 3926 Pa (+ 82 psf)(no failure)</td>
</tr>
<tr>
<td>See Figure 1</td>
<td></td>
</tr>
<tr>
<td>EPS thickness—50 mm (2&quot;)</td>
<td>- 6272 Pa (- 131 psf) + 3974 Pa (+ 83 psf)(no failure)</td>
</tr>
<tr>
<td>See Figure 1</td>
<td></td>
</tr>
<tr>
<td>EPS thickness—50 mm (2&quot;)</td>
<td>- 4261 Pa (- 89 psf) + 3782 Pa (+ 79 psf)(no failure)</td>
</tr>
<tr>
<td>See Figure 2</td>
<td></td>
</tr>
<tr>
<td>EPS thickness—38 mm (1.5&quot;)</td>
<td>- 5458 Pa (- 114 psf) + 3782 Pa (+ 79 psf)(no failure)</td>
</tr>
<tr>
<td>See Figure 2</td>
<td></td>
</tr>
</tbody>
</table>

#### Senturion™ II

**Physical Test Results:**
ASTM E331 Modified—drainage performance and drying potential of Class PB EIFS
Pass

ASTM E330—wind-load
Assembly components: wood framing—406 mm (16") o.c.; sheathing—10.9 mm (7/16") exposure 1 oriented strand board; type 15 # felt paper; 38 mm (1-1/2") channelled expanded polystyrene insulation board; mechanical fasteners; Senergy Base Coat/FLEXGUARD 4 Reinforcing Mesh; and Senergy Finish Coat.

<table>
<thead>
<tr>
<th>Assembly Specifics</th>
<th>Average Ultimate Loads:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPS thickness—38 mm (1.5&quot;)</td>
<td>- 4021 Pa (- 84 psf) + 7373 Pa (+ 154 psf)(no failure)</td>
</tr>
</tbody>
</table>
# Senturion™ Systems
## Methods of Attachment

### Senturion™ III

**Fire Test Results:**

*UBC Standard 26-9 (Formerly 17-6)/NFPA 285*—intermediate scale fire test
Successfully meets all of the test criteria.

**NFPA 268/Radiant Heat Exposure**

Satisfies conditions of acceptance. No ignition upon 20 minute radiant heat exposure at 1.25 w/cm².

**Physical Test Results:**

*ASTM E 331Modified*—drainage performance and drying potential of Class PB EIFS
Pass

*ASTM E330*—wind-load
Assembly components: wood framing/sheathing—10.9 mm (7/16") exposure 1 oriented strand board; type 15 # felt paper; Senergy DRAINAGE MAT; expanded polystyrene insulation board; mechanical fasteners; Senergy Base Coat/FLEXGUARD 4 Reinforcing Mesh; and Senergy Finish Coat.

<table>
<thead>
<tr>
<th>Assembly Specifics:</th>
<th>Average Ultimate Loads:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Framing—406 mm (16&quot;) o.c.</td>
<td>- 5123 Pa (- 107 psf)</td>
</tr>
<tr>
<td>EPS thickness—25 mm (1&quot;)</td>
<td>+ 3830 Pa (+ 80 psf) (no failure)</td>
</tr>
<tr>
<td>Framing—406 mm (16&quot;) o.c.</td>
<td>- 5841 Pa (- 122 psf)</td>
</tr>
<tr>
<td>EPS thickness—50 mm (2&quot;)</td>
<td>+ 4022 Pa (+ 84 psf) (no failure)</td>
</tr>
</tbody>
</table>

### Figure 1 (For Senturion I, II and III)

![Diagram](image1.png)

### Figure 2 (For Senturion I)

![Diagram](image2.png)
**Senturion™ I-QR and Senturion III-QR**

**Physical Test Results:**  
ASTM E331 Modified—drainage performance and drying potential of Class PB EIFS  
Pass.

**ASTM E330**—wind-load  
Assembly components: wood framing; 25 mm x 1.22 m x 2.44 m (1” x 4’ x 8’) polyisocyanurate insulation board; mechanical fasteners; Senergy Base Coat/FLEXGUARD 4 Reinforcing Mesh; and Senergy Finish Coat. Attached 304 mm (12”) on center vertically and 406 mm (16”) on center horizontally.  
Ultimate Loads:  
- 6392 Pa (- 133.5 psf)  
+ 7302 Pa (+ 152.5 psf)  

**Note:** No safety factors taken into consideration. Apply the safety factors for the code regulations governing the area of installation.

![Figure 3](image)

**Note:** Different methods of attachment are available depending upon project and local building code requirements. Recommended options are shown. Generally accepted engineering and design practice dictates a safety factor of up to three be applied to ultimate loads.  
See current Senergy EIFS and Coatings Test Results technical bulletin for additional information.
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Methods of Attachment