Full Height Blocking Lateral Capacity Detail for Metal Plate Connected Wood Trusses

Structural Building Components Association

Issue Date: February 8, 2016

6300 ENTERPRISE LANE
MADISON, WI 53719
608-274-4849
sbcindustry.com

Required Block length

<table>
<thead>
<tr>
<th>Allowable Shear Load (PLF)</th>
<th>Spruce Pine Fir (SPF)</th>
<th>Douglas Fir (DF)</th>
<th>Southern Pine (SP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>1.4</td>
<td>2.0</td>
<td>2.9</td>
</tr>
<tr>
<td>350</td>
<td>1.1</td>
<td>1.5</td>
<td>2.2</td>
</tr>
<tr>
<td>500</td>
<td>1.1</td>
<td>1.6</td>
<td>2.2</td>
</tr>
</tbody>
</table>

1. \( L_{\text{Required}} \) = Total length of block required to resist specified shear load above. \( L_{\text{Required}} \) is calculated using the standard 2X lumber thickness of 1.5".
2. \( L_{\text{max vent}} \) = Maximum length of vent that can be in block.
3. \( L_{\text{max vent}} \) for circular vents = Maximum length of vent which is the sum of the diameters of all holes drilled into the block.
4. Blocking shall be attached with minimum 8d (0.131" x 2.5") nails along the length of the braced wall panels. Fasteners shall be spaced 6" o.c. for allowable loads of 250 plf, 4" o.c. for allowable loads of 350 plf, and 3" o.c. for allowable loads of 500 plf.
5. Ventilation designs needs to meet requirements in IRC R806.2 and R806.3.

Table 1: Required Length of Material Left to Resist Shear Forces after Adding Ventilation in Heel Blocking

The seal on this design drawing indicates acceptance of professional engineering responsibility solely for the component(s) depicted. The design assumptions, loading conditions, suitability and use of this component for any particular building is the responsibility of the building designer or owner of the components, per ANSI/TPI 1. The responsibilities and duties of the component designer, component design engineer and component manufacturer shall be in accordance with the latest edition of ANSI/TPI 1 Chapter 2 unless otherwise defined by a contract agreed upon by the parties involved.

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