TREATED SILL PLATES AND STUDS

Featuring StrandGuard® TimberStrand® LSL

- Treated with zinc borate, using a proprietary process, for protection against termites and fungal decay
- Accepted by ICC-ES and meets AWPA treating standards for dry interior applications (Use Category 2)
- Treated throughout—no need to field treat after cutting or drilling
- Eliminates the need for corrosion-resistant fasteners
- Every piece is manufactured to be straight and true for fast installation and minimal waste
- Available in the following sizes:
  - 1.3E: 1 1/2" x 3 1/2", 1 1/2" x 5 1/2"
  - 1.5E: 1 1/2" x 7 1/4"
- Limited 25-year product warranty
Allowable Design Stresses (100% Load Duration)

<table>
<thead>
<tr>
<th></th>
<th>Beam Orientation</th>
<th>Plank Orientation</th>
<th>Beam Orientation</th>
<th>Plank Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modulus of elasticity</td>
<td>1.3 x 10^6 psi</td>
<td>1.3 x 10^6 psi</td>
<td>1.5 x 10^6 psi</td>
<td>1.5 x 10^6 psi</td>
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<tr>
<td>Adjusted modulus of elasticity&lt;sup&gt;(1)&lt;/sup&gt;</td>
<td>660,750 psi</td>
<td>660,750 psi</td>
<td>762,400 psi</td>
<td>762,400 psi</td>
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<tr>
<td>Flexural stress</td>
<td>1,700 psi&lt;sup&gt;(2)&lt;/sup&gt;</td>
<td>1,900 psi</td>
<td>2,250 psi&lt;sup&gt;(2)&lt;/sup&gt;</td>
<td>2,525 psi&lt;sup&gt;(2)&lt;/sup&gt;</td>
</tr>
<tr>
<td>Compression perpendicular to grain&lt;sup&gt;(1)&lt;/sup&gt;</td>
<td>710 psi</td>
<td>670 psi</td>
<td>860 psi</td>
<td>750 psi</td>
</tr>
<tr>
<td>Compression parallel to grain</td>
<td>1,835 psi</td>
<td>1,835 psi</td>
<td>2,105 psi</td>
<td>2,105 psi</td>
</tr>
<tr>
<td>Horizontal shear parallel to grain</td>
<td>425 psi</td>
<td>150 psi</td>
<td>505 psi</td>
<td>150 psi</td>
</tr>
</tbody>
</table>

<sup>(1)</sup> Reference modulus of elasticity for beam stability and column stability calculations, per NDS.<br><sup>(2)</sup> For 12" depth. For other depths, multiply by (12/10)<sup>0.02</sup>.<br><sup>(3)</sup> F<sub>c</sub> must not be increased for duration of load.

General Notes

- **StrandGuard® TimberStrand® LSL** is treated with zinc borate, an EPA-registered biocide, using a proprietary process for protection against termites and fungal decay.
- The StrandGuard® treatment process does not reduce the allowable design stresses for TimberStrand® LSL.
- For complete design and installation information regarding wall framing with TimberStrand® LSL, refer to the Trus Joist® Wall Guide for your region, TJ-9003 or TJ-9004.
- For complete design and installation information regarding TimberStrand® LSL columns, refer to the Trus Joist® Beam, Header, and Column Specifier’s Guide for your region, TJ-9000 or TJ-9020.

Connector Notes

Bolted Connections

- For bolts installed perpendicular to face and loaded parallel to grain, use a specific gravity of 0.50.
- For bolts installed perpendicular to face and loaded perpendicular to grain, use a specific gravity of 0.58.

Nailed Connections

- For lateral nail capacity, use a specific gravity of 0.50.
- For withdrawal nail capacity, use a specific gravity of 0.42 in the edge and 0.50 in the face.

Shear Walls

- When StrandGuard® TimberStrand® LSL sill plates are used in shear-wall construction, use the specific gravity of the studs when determining the allowable shear.
- Minimum edge nail spacing for 2x sill plate: one row at 4" on-center.

Code Evaluation: See ICC-ES ESR-1387

**WARNING:** This product can expose you to chemicals including wood dust which are known to the State of California to cause cancer, and methanol, which are known to the State of California to cause birth defects or other reproductive harm. Drilling, sawing, sanding or machining wood products can expose you to wood dust. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) and [www.P65Warnings.ca.gov/wood](http://www.P65Warnings.ca.gov/wood).

**PRODUCT STORAGE**

Protect product from sun and water

**CAUTION:**

- Wrap is slippery when wet or icy
- Align stickers (2x3 or larger) directly over support blocks
- Use support blocks (6x6 or larger) at 18" on-center to keep bundles out of mud and water