January 1, 2019

Re: 2009/2012 IRC Compliant Spacing for a Sawn Lumber Deck Ledger to Band Joist with 100 PSF Live Load and 10 PSF Dead Load

Simpson Strong-Tie Company now manufactures three fastener types that are suitable for installing ledgers and meet the current requirements of the building codes. Each fastener installs easily, does not require predrilling and has a double barrier coating providing corrosion resistance equivalent to hot dip galvanization. The attached table meets the prescriptive ledger attachment solutions equivalent to Table R502.2.2.1 of the 2009 IRC and Table R507.2 of the 2012 IRC.

<table>
<thead>
<tr>
<th>Fastener</th>
<th>Ledger Nominal Size</th>
<th>Fastener Model No.</th>
<th>Band Joist Material and Size</th>
<th>Maximum Deck Joist Span</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1&quot; OSB, 1&quot; LVL</td>
<td>Up to 6 ft.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 1/8&quot; OSB, 1 1/4&quot; LSL, 1 1/4&quot; LVL, 1 5/16&quot; LVL</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2x SP, DF - 2x SPF, HF</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2x SP, DF - 2x SPF, HF</td>
<td>6</td>
</tr>
<tr>
<td>Strong-Drive® SDS HEAVY-DUTY CONNECTOR Screw</td>
<td>2x</td>
<td>SDS25312</td>
<td>1&quot; OSB, 1&quot; LVL</td>
<td>5</td>
</tr>
<tr>
<td>Strong-Drive® SDWS TIMBER Screw</td>
<td>2x</td>
<td>SDWS22400DB</td>
<td>1&quot; OSB, 1&quot; LVL</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 1/8&quot; OSB, 1 1/4&quot; LSL, 1 1/4&quot; LVL, 1 5/16&quot; LVL</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2x SP, DF - 2x SPF, HF</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2x SP, DF - 2x SPF, HF</td>
<td>7</td>
</tr>
<tr>
<td>Strong-Drive® SDWH TIMBER-HEX Screw</td>
<td>2x</td>
<td>SDWH19400DB</td>
<td>1&quot; OSB, 1&quot; LVL</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 1/8&quot; OSB, 1 1/4&quot; LSL, 1 1/4&quot; LVL, 1 5/16&quot; LVL</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2x SP, DF - 2x SPF, HF</td>
<td>7</td>
</tr>
</tbody>
</table>

2. Fastener spacing are based on the lesser of single fastener ICC-ES AC233 testing of the fastener with F.S. of 5.0 or ICC-ES AC13 ledger assembly testing with a F.S. of 5.0. Spacing includes NDS wet service factor adjustment.
3. Multiple ledger plies shall be fastened together per code independent of the SDS, SDWS or SDWH screws listed in the table above.
4. Screws shall be placed at least 1½" from the top or bottom of the ledger or band joist, 6" from the end of the ledger with 3" between rows and spaced per the table. End screws shall be located near the bottom of the ledger (see figure). For end distances between 2" and 6", use 50% of the load and 50% of the table spacing between the end screw and the adjacent screw. For end distances between 2" and 4", predrill using a 5/32" drill bit for SDS and SDWS screws and a 1/8" drill bit for SDWH screws.
5. Structural sheathing between the ledger and band shall be a maximum of ½" thick and fastened per code.
6. NS = No Solution
The information in this letter is valid until **12/31/2019** when it will be re-evaluated by Simpson Strong-Tie. Please visit strongtie.com for additional pertinent information. If you have questions or need further assistance regarding this matter, please contact the Simpson Strong-Tie engineering department at 800.999.5099.

Sincerely,

**SIMPSON STRONG-TIE COMPANY INC.**