High Strength and Easy Installation for Ledger Fastening Applications

Simpson Strong-Tie has expanded the Strong-Drive® structural wood screw product line with fasteners designed to provide an easy-to-install, high-strength alternative to lag screws and through-bolts. The Simpson Strong-Tie® Strong-Drive SDWS Timber and SDWH Timber-Hex screws are ideal for securely attaching ledgers to structural wood members, are easier to drive than comparable fasteners and are coated for many exterior, preservative-treated wood and engineered wood applications. Code listed per IAPMO UES ER-192 and State of Florida FL 13975.

**Strong-Drive® Structural Screws**

- SawTooth™ point, serrated thread, and knurled shank reduce installation torque
- Double-barrier coating provides corrosion resistance equivalent to hot-dip galvanization, making it suitable for many exterior and preservative-treated wood applications
- Identification on all screw heads
- Installs best with a low-speed ½" drill motor with a T-40 bit (SDWS) or ⅜" hex drive (SDWH) (bit included in each package)

**SDWS TIMBER Screw**

- Low-profile washer head provides excellent bearing area and a clean look
- Deep, 6-lobe recess reduces cam-out, making driving easier

**SDWH TIMBER-HEX Screw**

- Large hex-washer head provides excellent bearing area for a secure connection
- Hex drive reduces cam-outs for easier driving

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### 2015 and 2012 IRC-Compliant Strong-Drive® SDWS Timber Screw Spacing for a Sawn Lumber Deck Ledger to Rim Board

<table>
<thead>
<tr>
<th>Loading Condition</th>
<th>Nominal Ledger Size</th>
<th>Screw Model No.</th>
<th>Rim Board Material and Minimum Size</th>
<th>Maximum Deck Joist Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 psf Live 10 psf Dead</td>
<td>2x</td>
<td>SDWS22400DB</td>
<td>1&quot; OSB 1&quot; LVL 1½&quot; OSB 1¾&quot; LVL 1½&quot; LSL 2x SPF, DFL – 2x SPF, HF</td>
<td>Up to 6 ft. Up to 8 ft. Up to 10 ft. Up to 12 ft. Up to 14 ft. Up to 16 ft. Up to 18 ft.</td>
</tr>
<tr>
<td>60 psf Live 10 psf Dead</td>
<td>2x</td>
<td>SDWS22400DB</td>
<td>1&quot; OSB 1&quot; LVL 1½&quot; OSB 1¾&quot; OSB 1½&quot; LSL 2x SPF, DFL – 2x SPF, HF</td>
<td>10 7 6 5 4 4 4</td>
</tr>
<tr>
<td>40 psf Live 10 psf Dead</td>
<td>2x</td>
<td>SDWS22500DB</td>
<td>1&quot; OSB 1½&quot; OSB 1¾&quot; OSB 1½&quot; LSL 2x SPF, DFL – 2x SPF, HF</td>
<td>15 12 9 8 7 6 5</td>
</tr>
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<td>60 psf Live 10 psf Dead</td>
<td>2x</td>
<td>SDWS22500DB</td>
<td>1&quot; OSB 1½&quot; OSB 1¾&quot; OSB 1½&quot; LSL 2x SPF, DFL – 2x SPF, HF</td>
<td>11 8 7 6 5 4 4</td>
</tr>
</tbody>
</table>

#### Conditions:
- **Loading**
  - 10 psf
  - 40 psf
  - 60 psf
- **Rim Board Material and Minimum Size**
  - 1" OSB
  - 1½" OSB
  - 1¾" OSB
  - 1½" LSL
  - 2x SPF, DFL – 2x SPF, HF

#### Maximum Deck Joist Span:
- Up to 6 ft.
- Up to 8 ft.
- Up to 10 ft.
- Up to 12 ft.
- Up to 14 ft.
- Up to 16 ft.
- Up to 18 ft.

#### Screw Spacing Detail:
- SDWS screws staggered vertically spaced in accordance with table.
- SDWS screw spacing values are equivalent to the load requirements of 2015/2012 IRC Table R507.2 and 2009 IRC Table R502.2.2.1.

### 2015 and 2012 IRC-Compliant Strong-Drive SDWH Timber-Hex Screw Spacing for a Sawn Lumber Deck Ledger to Rim Board

<table>
<thead>
<tr>
<th>Loading Condition</th>
<th>Nominal Ledger Size</th>
<th>Screw Model No.</th>
<th>Rim Board Material and Minimum Size</th>
<th>Maximum Deck Joist Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 psf Live 10 psf Dead</td>
<td>2x</td>
<td>SDWH19400DB</td>
<td>1&quot; OSB 1½&quot; OSB 1¾&quot; OSB 1½&quot; LSL 2x SPF, DFL – 2x SPF, HF</td>
<td>13 9 8 6 5 5 4</td>
</tr>
<tr>
<td>60 psf Live 10 psf Dead</td>
<td>2x</td>
<td>SDWH19400DB</td>
<td>1&quot; OSB 1½&quot; OSB 1¾&quot; OSB 1½&quot; LSL 2x SPF, DFL – 2x SPF, HF</td>
<td>9 7 5 5 4 4 4</td>
</tr>
</tbody>
</table>

#### Conditions:
- **Loading**
  - 10 psf
  - 40 psf
  - 60 psf
- **Rim Board Material and Minimum Size**
  - 1" OSB
  - 1½" OSB
  - 1¾" OSB
  - 1½" LSL
  - 2x SPF, DFL – 2x SPF, HF

#### Maximum Deck Joist Span:
- Up to 6 ft.
- Up to 8 ft.
- Up to 10 ft.
- Up to 12 ft.
- Up to 14 ft.
- Up to 16 ft.
- Up to 18 ft.

#### Screw Spacing Detail:
- SDWH screws staggered vertically spaced in accordance with table.
- SDWH screw spacing values are equivalent to the load requirements of 2015/2012 IRC Table R507.2 and 2009 IRC Table R502.2.2.1.

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This flyer is effective until December 31, 2020, and reflects information available as of June 1, 2018. This information is updated periodically and should not be relied upon after December 31, 2020. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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2. SDWH screw spacing values are equivalent to the load requirements of 2015/2012 IRC Table R507.2 and 2009 IRC Table R502.2.2.1.
3. Fastener spacings are based on the lesser of single-fastener ICC-ES AC233 testing of the Strong-Drive SDWS screw with a safety factor of 5.0 or ledger assembly testing with a factor of safety of 5.0. Spacing includes NDS wet-service factor adjustment.
4. Multiple ledger piers shall be fastened together per code independent of the SDWS screws.
5. Rows of screws shall be vertically offset and evenly staggered.
6. Structural sheathing between the ledger and band joist shall be a minimum of ½" thick and fastened per code.

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