January 1, 2020

Re: Lag Screw Alternative Strong-Drive® Structural Fasteners for Single Shear Connection Applications

The following Simpson Strong-Tie® Strong-Drive® screws are suitable alternates for typical wood-to-wood fastening commonly achieved with lag screws:

- Strong-Drive® SDWS TIMBER Screw
- Strong-Drive® SDWH TIMBER-HEX Screw
- Strong-Drive® SDWH TIMBER-HEX SS Screw
- Strong-Drive® SDS HEAVY-DUTY CONNECTOR Screw

The SDWS Timber, SDWH Timber-Hex, and SDS Heavy-Duty Connector screws are available with a double-barrier coating that provides corrosion resistance equivalent to hot-dip galvanization for most preservative-treated woods in general exterior construction. The SDWH Timber-Hex SS screw is made from Type 316 stainless-steel that gives the maximum corrosion resistance. See Figure 1.

The attached tables provide alternative options for typical lag screw applications. The options meet or exceed the shear capacities of lag screws as a one-for-one substitution. All recommendations are based on full penetration into the main member which is considered to be six times the screw thread diameter (6D). The tip and threaded length in excess of 6D may protrude through the back of the main member without loss of shear capacity. Fastener withdrawal and head pull-through have not been considered in the substitution tables. Minimum fastener spacing requirements are shown in Figure 2.

The information in this letter is valid until 12/31/2020 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.

Encl.: Tables
Figure 1. Strong-Drive® Structural Fasteners
Figure 2. Strong-Drive® Structural Fasteners Connection Geometry
## SDWS TIMBER Screw Options

### 1/4" Lag Screws

<table>
<thead>
<tr>
<th>Lag Screw Size (in.)</th>
<th>Wood Side Plate Thickness (in.)</th>
<th>In DF/SP</th>
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### In HF/SPF

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### 5/16" Lag Screws

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### In DF/SP

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# 7/16" Lag Screws

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Wood Side Plate Thickness (in.): In HF/SPF

- 5" SDWS (SDWS225000DB)
- 6" SDWS (SDWS226000DB)
- 8" SDWS (SDWS228000DB)
# SDWH TIMBER-HEX Screw Options

## 1/4" Lag Screws

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## 5/16" Lag Screws

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### 1/2" Lag Screws

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### SDWH TIMBER-HEX SS (.276 dia.) Screw Options

#### 1/4” Lag Screws

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### SDWH TIMBER-HEX SS (.188 dia.) Screw Options

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<th>Wood Side Plate Thickness (in)</th>
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<tbody>
<tr>
<td>3/8 x 4</td>
<td>4&quot; SDWH SS (SDWH19400SS)</td>
</tr>
<tr>
<td>3/8 x 5</td>
<td>4 1/2&quot; SDWH SS (SDWH19450SS)</td>
</tr>
<tr>
<td>3/8 x 6</td>
<td>5&quot; SDWH SS (SDWH19500SS)</td>
</tr>
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<td>3/8 x 8</td>
<td>6&quot; SDWH SS (SDWH19600SS)</td>
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<td>8&quot; SDWH SS (SDWH19800SS)</td>
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### In DF/SP

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<th>Lag Screw Size (in.)</th>
<th>Wood Side Plate Thickness (in)</th>
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<tbody>
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<td>3/8 x 4</td>
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<td>3/8 x 5</td>
<td>4 1/2&quot; SDWH SS (SDWH19450SS)</td>
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<td>3/8 x 6</td>
<td>5&quot; SDWH SS (SDWH19500SS)</td>
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<td>6&quot; SDWH SS (SDWH19600SS)</td>
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### In HF/SPF

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<th>Lag Screw Size (in.)</th>
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<td>4&quot; SDWH SS (SDWH19400SS)</td>
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<td>3/8 x 5</td>
<td>5&quot; SDWH SS (SDWH19500SS)</td>
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<td>6&quot; SDWH SS (SDWH19600SS)</td>
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<td>8&quot; SDWH SS (SDWH19800SS)</td>
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### 7/16" Lag Screws

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<td>4&quot; SDWH SS (SDWH19400SS)</td>
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<td>7/16 x 5</td>
<td>4 1/2&quot; SDWH SS (SDWH19450SS)</td>
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<td>5&quot; SDWH SS (SDWH19500SS)</td>
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### In DF/SP

### 1/2" Lag Screws

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<td>1/2 x 5</td>
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<tr>
<td>1/2 x 6</td>
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<td>1/2 x 8</td>
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<tr>
<td>Lag Screw Size (in.)</td>
<td>Wood Side Plate Thickness (in)</td>
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<tr>
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<td>4&quot; SDWH SS (SDWH19400SS)</td>
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<td>1/2 x 5</td>
<td>4 1/2&quot; SDWH SS (SDWH19450SS)</td>
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<td>1/2 x 6</td>
<td>5&quot; SDWH SS (SDWH19500SS)</td>
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### SDS HEAVY-DUTY CONNECTOR Screw Options

#### 1/4" Lag Screws

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<td>1/4 x 2 1/2</td>
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<tr>
<td>1/4 x 3</td>
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#### In DF/SP

- 2" SDS (SDS25200)
- 2 1/2" SDS (SDS25212)
- 3" SDS (SDS25300)
- 2 1/2" SDS (SDS25212)
- 3 1/2" SDS (SDS25312)
- 4 1/2" SDS (SDS25412)
- 5" SDS (SDS25500)

#### In HF/SPF

- 2" SDS (SDS25200)
- 2 1/2" SDS (SDS25212)
- 3" SDS (SDS25300)
- 3 1/2" SDS (SDS25312)
- 4 1/2" SDS (SDS25412)
- 5" SDS (SDS25500)
### 5/16" Lag Screws

#### In DF/SP

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### 3/8" Lag Screws

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### In DF/SP

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- 5" SDS (SDS25500)
- 6" SDS (SDS25600)