**Standard Strong-Wall Wood Shearwall Installation**

- Verify panel is plumb. Use metal shims (Model No. WSW-CS1) at the base if required.
- Place Strong-Wall wood shearwall over the anchor bolts and secure with hex nuts (provided). Snug tight fit required.
- 1 5/16" wrench required for 7/8" nut.
- 1 1/2" wrench required for 1" nut.

Foundation design (size and reinforcement) by Designer.

**Portal-Frame Installation**

**STANDARD HEADER**

- For multiple-ply headers, connect plies using Strong-Drive® SDW or SDS structural wood screws. Refer to current Simpson Strong-Tie Fastening Systems catalog. Alternatively, for 2-ply headers, 2 rows of 16d (0.162" x 3 1/2") nails at 18" o.c. may be used.
- Portal straps: Maintain 1/2" edge distance. Attach with 16 nails, 10d (0.148" x 2 1/2") min., 8 into header and 8 into panel.

**WIDE HEADER**

- 5 1/4" or 5 1/2" wide x 9 1/4"–18" deep header as specified.
- Portal straps: Maintain 1/2" edge distance. Attach with 16 nails, 10d (0.148" x 2 1/2") min., 8 into header and 8 into panel.
- Install wood shims to interior side of panel. Min. shim size is 1 1/4" x 5 1/4" x half of the panel height.
- Install wood furring block between 5/4" shims. Min. block size is 1 1/4" x 11 1/4" x distance between shims.
- Attach block with 1/4" x 3 1/2" SDS structural wood screws (min.) or 16d (0.162" x 3") nails at 3" o.c., staggered. Edge and end distances and row spacing per shim detail.
- Attach shim with 2 rows of 1/4" x 3 1/2" SDS structural wood screws (min.), or 16d (0.162" x 3") nails at 6" o.c., staggered. Nail the full length of the shim, allowing 1" edge distance, 2" end distance, and 3" row spacing.

**PORTAL COLUMN**

- Header as specified. For 5 1/4"–5 1/2" header, use furring as required. See details above.
- Simpson Strong-Tie® LSTA12 strap on each side of beam and post (1,000 lb. uplift capacity min.).
- Solid sawn or structural composite lumber support post (3" x 3 1/2") min.) by Designer.
- Simpson Strong-Tie STHD10 holdown (1,000 lb. uplift capacity min.).
Allowable Holes for Strong-Wall Wood Shearwalls

**ALLOWABLE SMALL HOLES**
- No holes allowed in top 8" of panel.
- FACE DRILL ZONE: Maintain 1 1/2" min. edge distance from chase and outside edge, typical.
- EDGE DRILL ZONE: Middle 1/3 of panel thickness.

**ALLOWABLE HOLES**
- Max. three holes in face and three in edge.
- 1/4"-diameter holes, max.
- 6" o.c., min.

**ALLOWABLE LARGE HOLES**
- No holes allowed in top 8" of panel.

**FACE DRILL ZONE**
- Maintain 1 1/2" min. edge distance from chase and outside edge, typical.

**ALTERNATE TOP CONNECTION**
- As an alternative to the two-sided top-of-wall connection shown on page one, a single WSW-TOW installed with Strong-Drive® SD Connector screws and Strong-Drive SDS Heavy-Duty Connector screws may be used, as shown.

**SCREW KITS**

<table>
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<tr>
<td>WSW-TOW12KT</td>
<td>SD #10 x 1 1/2&quot;  20  SDS 1/4&quot; x 6&quot;  2</td>
</tr>
<tr>
<td>WSW-TOW18KT</td>
<td>SD #10 x 1 1/2&quot;  28  SDS 1/4&quot; x 6&quot;  4</td>
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<tr>
<td>WSW-TOW24KT</td>
<td>SD #10 x 1 1/2&quot;  40  SDS 1/4&quot; x 6&quot;  8</td>
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**TRIM ZONES FOR STRONG-WALL WOOD SHEARWALL PANELS**
- Trim height from the top of the panel only. Do not trim the sides or bottom.
- Panels may be trimmed down to a min. height of 74 1/2".

**WARNING:** Drilling, sawing, sanding or machining wood products generates wood dust. The paint and/or coatings on this product may contain titanium dioxide. Wood dust and titanium dioxide are substances known to the State of California to cause cancer. For more information on Proposition 65, visit www.oehha.ca.gov.

This technical bulletin is effective until June 30, 2020, and reflects information available as of May 1, 2018. This information is updated periodically and should not be relied upon after June, 2020. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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T-L-WSWINSL18 5/18 exp. 6/20

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