

LSTHD/STHD STRAP TIE HOLDDOWN

The STHD is an embedded strap tie holddown with high load capacity and a staggered nail pattern to help minimize spalling.

FEATURES: • The strap nailing pattern allows for nailing to the edges of double 2x's.

- A slot below the embedment line allows for increased front to back concrete bond and reduced spalling.
- Strap nail slots are countersunk to provide a lower nail head profile.
- Rim joist models accommodate up to a 17" clear span without any loss of strap nailing. Diamond holes for optional attachment to rim joist.
- Coined edges enhance safe handling.

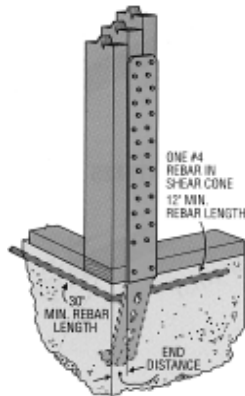
MATERIAL: LSTHD8, LSTHD8RJ—14 ga, all others—12 ga. **FINISH:** Galvanized

INSTALLATION: • Use all specified fasteners. See General Notes.

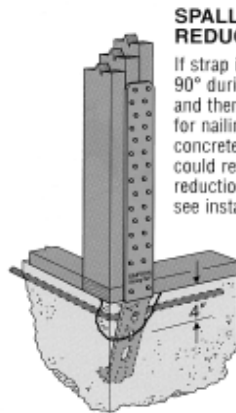
- See Post Tension information on page 31.
- Install before concrete pour with a StrapMate, or other holding device.
- Nail strap from the bottom up. Strap may be bent one full cycle.
- Bending the strap 90° to aid wall placement may cause spalling behind the strap. If the spall is 1" or less, measured from the embedment line to the bottom of the spall, full loads apply. For spalls between 1" and 4" (see illustration), the allowable load is 0.90 of the table loads.
- Where fewer fasteners are used in the structural wood member, reduce loads according to the code.
- Unless otherwise noted, do NOT install where:
 - (a) a horizontal cold joint exists within the embedment depth between the slab and foundation wall or footing beneath, unless provisions are made to transfer the load, or the slab is designed to resist the load imposed by the anchor; or
 - (b) slabs are poured over concrete block foundation walls.
- To get the full table load, the minimum center-to-center spacing is twice the embedment depth when resisting tension loads at the same time.
- There is an increase in the amount of deflection if the strap is installed on the outside of the shear panel versus under the shear panel directly to the framing. Ask for Form T-PLYWOOD for complete details.

FOUNDATION CORNERS: Nail quantities may be reduced for less than l_d corner distance design loads—use the code allowable loads for fasteners in shear.

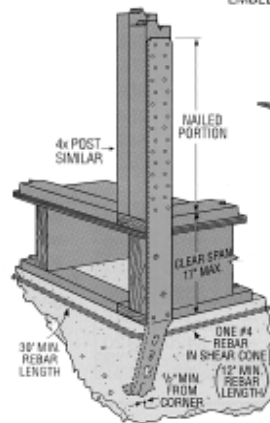
CODE: ICBO 5349.



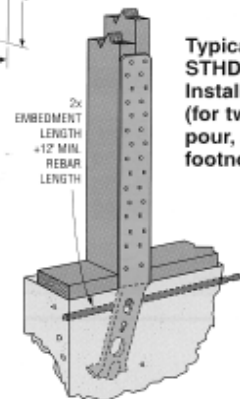
Typical STHD Corner Installation on 3-2x studs (for 2 pour, see footnote 4.)



SPALLING LOAD REDUCTION!
If strap is bent horizontal 90° during installation, and then bent vertical for nailing to the stud, concrete spalling could result. Load reductions may apply, see installation note.



Typical STHD14RJ Rim Joist Application



Typical STHD Edge Installation (for two pour, see footnote 4.)

NEW SPALL REDUCTION SYSTEM FOR THE STHD AND HPAHD

FEATURES

- Secures holdown to wood form-board.
- Allows for proper side-cover.
- Keeps strap vertical.
- Prevents tilting or twisting of strap during the concrete pour.
- Uses one 16d duplex nail.

BENEFITS

- Greatly reduces spalling and costly retrofits.
- Prevents strap movement parallel and perpendicular to plate.
- Decreases possibility of misinstallation of strap to wood member.
- Simple to use
 - Common jobsite nail.
 - No additional expense.

New Keyhole Feature
Patent Pending

STEEL PRODUCTS

| Model No. Standard / Rim Joist | Min Stem Wall | Strap Length (L) | | l_d | Nails | Avg UIT @ 2000 psi l_d | Allowable Loads (133 & 160) | | | | | | | | |
|-----------------------------------|---------------------|------------------|-----------------------|-------|---------------|--------------------------------------|-----------------------------|----------|-------|-------------------|----------|-------|-------------------|----------|-------|
| | | Std Model | Rim Joist Model | | | | End Distance | | | | | | | | |
| | | | | | | | $1/2"$ | $1 1/2"$ | l_d | $1/2"$ | $1 1/2"$ | l_d | $1/2"$ | $1 1/2"$ | l_d |
| | | | | | | | 2000 psi Concrete | | | 2500 psi Concrete | | | 3000 psi Concrete | | |
| LSTHD8 / LSTHD8RJ | 6 | 21% | 35% | 8 | 24-16d sinker | 5918 | 1695 | 1695 | 1695 | 1825 | 1825 | 1825 | 1950 | 1950 | 1950 |
| STHD8 / STHD8RJ | 6 | 21% | 35% | 8 | 24-16d sinker | 7167 | 1760 | 2050 | 2345 | 1950 | 2210 | 2385 | 2135 | 2370 | 2425 |
| STHD10 / STHD10RJ | 6 | 23% | 36% | 10 | 28-16d sinker | 10555 | 2035 | 2575 | 3185 | 2610 | 2880 | 3185 | 3185 | 3185 | 3185 |
| STHD14 / STHD14RJ | 6 | 31% | 39% | 14 | 38-16d sinker | 15080 | 3235 | 4220 | 4805 | 3800 | 4295 | 4805 | 4365 | 4365 | 4805 |
| LSTHD8 / LSTHD8RJ | 8 | 21% | 35% | 8 | 24-16d sinker | 5918 | 1695 | 1695 | 1695 | 1825 | 1825 | 2335 | 1950 | 1950 | 2975 |
| STHD8 / STHD8RJ | 8 | 21% | 35% | 8 | 24-16d sinker | 7577 | 2370 | 2370 | 3195 | 2370 | 2370 | 3195 | 2370 | 2370 | 3195 |
| STHD10 / STHD10RJ | 8 | 23% | 36% | 10 | 28-16d sinker | 11790 | 2745 | 2745 | 3725 | 2990 | 2990 | 3725 | 3230 | 3230 | 3725 |
| STHD14 / STHD14RJ | 8 | 31% | 39% | 14 | 38-16d sinker | 17453 | 3885 | 4430 | 5785 | 4160 | 4430 | 5785 | 4430 | 4430 | 5785 |

1. 'RJ' after the model indicates STHDs for rim joist applications, e.g. STHD8RJ.
2. STHD14RJ requires 30-16d sinkers, with the (le) load at 133% of 4960 lbs.
3. 10d commons or 12d common nails may be used with no load reduction.
4. For two pour with 4" slab or less. The STHD14 load at $1/2"$ edge 2000psi is 3235. The STHD10 at the same condition is 2035.
5. Allowable loads have been increased 33% and 60% for earthquakes or wind loading with no further increase allowed; reduce for other load durations according to the code.
6. For Hem-Fir values, request T-Hemfir.