

FSTHD8, FSTHD8J, FSTHD10, FSTHD10J, FSTHD14 and FSTHD14J Foundation Strap-Tie Hold Downs Installation Instructions

1. The products, for which these installation instructions are written, are shown in Figure 1.

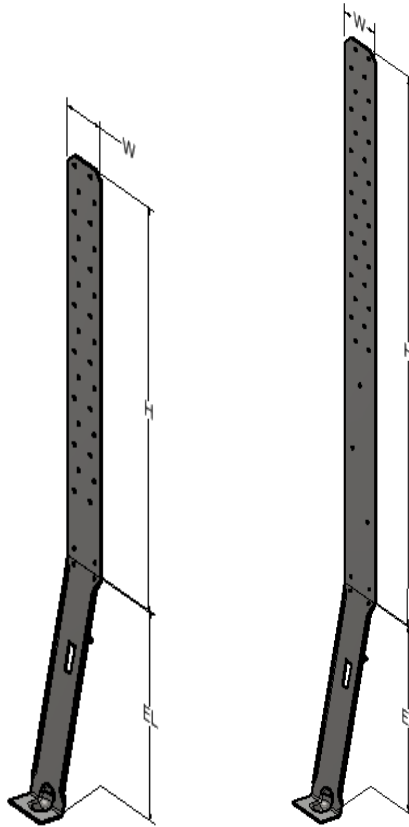


Figure 1. FSTHD and FSTHDJ Strap Tie Hold Downs

2. FSTHD8, FSTHD8J, FSTHD10, FSTHD10J, FSTHD14 and FSTHD14J are embedded strap-tie hold downs designed to secure a structure, wood-framed walls, to its foundation. FSTHD and FSTHDJ embedded strap-tie hold downs are manufactured from ASTM A653 Grade 50, Class 3 Structural Steel ($F_u = 70$ ksi, $F_y = 50$ ksi).

3. Allowable compression and tension design values for FSTHD and FSTHDJ connectors are provided in Table 1.

Table 1. Tension Design Values for FSTHD and FSTHDJ Strap-Tie Hold Downs

Part No.	Embed- ment Length L _e (in.)	Steel Gauge	Stud Fasteners		Allowable Loads (lb) ^{1,2,3,4,5,6}					
					SP		DF-L		HF/S-P-F	
					Corner ⁶	Mid-Wall ⁷	Corner ⁶	Mid-Wall ⁷	Corner ⁶	Mid-Wall ⁷
			Type	Qty	1.6	1.6	1.6	1.6	1.6	1.6
FSTHD8	8	14-gauge	10d x 3 1/4" (0.148 x 3.25")	20	2,755	3,455	2,755	3,195	2,755	2,760
FSTHD8J										
FSTHD10	10	12-gauge		28	3,750	5,800	3,750	5,370	3,750	4,660
FSTHD10J										
FSTHD14	14	12-gauge		30	6,615	6,615	6,230	6,230	5,405	5,405
FSTHD14J										

SI: 1 in = 25.4 mm, 1 lb = 4.45 N

- Allowable loads are provided for a load duration factor (C_D) of 1.6. No further increase is permitted.
- Total deflection of connector assembly at highest allowable load:
 - FSTHD8 = 0.072"
 - FSTHD10 = 0.068"
 - FSTHD14 = 0.111".
- Minimum wood member size is 3" x 3 1/2".
- Minimum compressive strength of concrete is 2,500 psi. Minimum of one (1) #4 rebar is required at 6" embedment and 3" edge distance.
- For corner straps, minimum end distance is 1/2" and minimum center-to-center spacing is 3 times the embedment length.
- For mid-wall straps, end distance is 1.5 times the embedment length.

4. An illustration of an example of installation is shown in Figure 2.

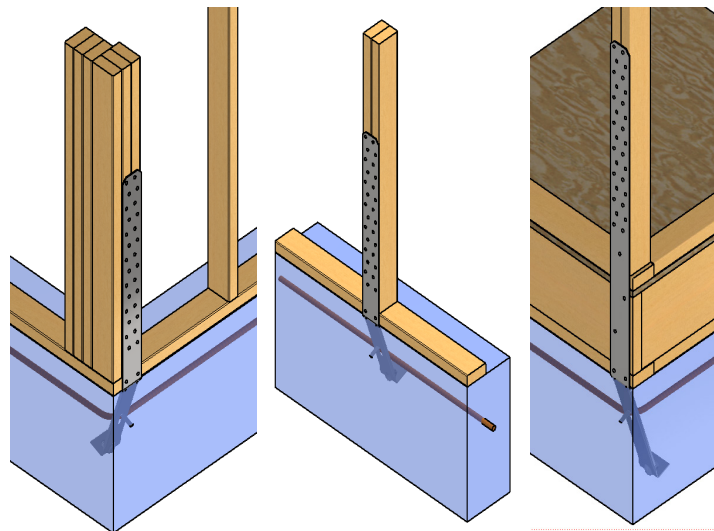


Figure 65. Installed FSTHD Connector (Left and Center) and FSTHDJ Connector (Right)

- Installation shall comply with the approved construction documents, the manufacturer installation instructions, TER 0910-01 and the applicable building code.
- In the event of a conflict between the manufacturer installation instructions and this report, the more restrictive shall govern.

7. The QTS and Quick Connectors shall be installed in accordance with the manufacturer published installation instructions and TER 0910-01.
8. A copy of the manufacturer published installation instructions shall be available at all times on the jobsite during installation.