SIMPSON Strong-Tie

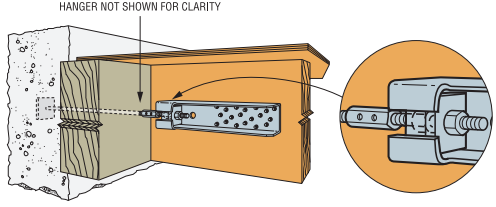
HDQ8 HOLDOWN

This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

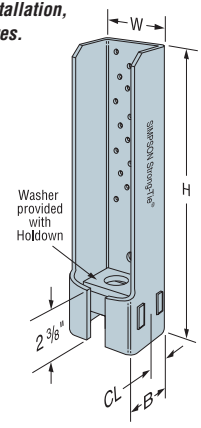
FINISH: Galvanized.

- 5/8" of adjustability perpendicular to the wall
- 1¼" center line for reduced eccentricity
- Use in vertical and horizontal applications
- **Install Simpson's code-recognized SDS¼x3 wood screws, which are provided with the holdown. *(Lag screws will not achieve the same load.)***
- **To tie double 2x members together, the designer must determine the fasteners required to bind members to act as one unit without splitting the wood.**

CODES: See page 10 for Code Listing Key Chart.



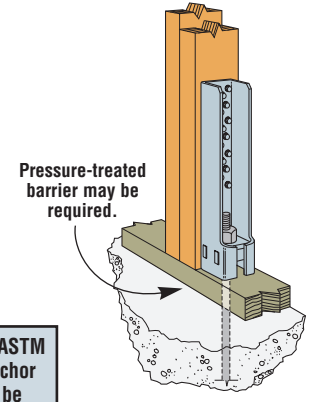
Horizontal HDQ Installation



HDQ
US Patents 6,006,487 and 6,327,831

May also be installed raised off the sill plate with no increase in deflection values.

For holdowns, per ASTM test standards, anchor bolt nuts should be finger-tight plus ⅓ to ½ turn with a wrench.



HDQ Vertical Installation

Model No.	Ga	W	H	B	CL	Anchor Dia.	No. of SDS¼x3 Wood Screws	Avg Ult Tension	Compression[8] Load (lbs)	Allowable Tension (lbs) 133 DF/SP	Allowable Tension (lbs) 133 SPF/HF	Holdown Deflection at Highest Allowable Tension Design Load	Code Ref.
HDQ8-SDS3	7	2⅞	14	2½	1¼	⅞	20	27192	7175	8325	7210	0.040	45

1. Allowable loads have been increased 33% for wind or earthquake loading and are governed by SDS screw calculations. No further increase allowed; reduce where other loads govern.
2. For double installation, offset holdowns to eliminate screw interference. This achieves double the load capacity (16,650 lbs).
3. The designer must specify anchor bolt type, length and embedment. See SSTBL Anchor Bolts.
4. See page 22 for retrofit anchor bolt.
5. Loads are based on static tests on wood studs, limited by the lowest of 0.125" deflection, ultimate divided by 3, or the wood screw value.
6. Deflection at Highest Allowable Tension Design Load: The deflection of a holdown measured between the anchor bolt and the strap portion of the holdown when loaded to the highest allowable load listed in the catalog table. This movement is strictly due to the holdown deformation under a static load test conducted on a steel jig.
7. SDS screws install best with a low speed ½" drill with a ⅜" hex head driver.
8. Compression load requires an additional standard nut and square washer below the holdown. Maximum rod length is 6" from the concrete to achieve 7175 lbs using A36 steel. If rod length is longer, designer needs to check rod for buckling capacity.
9. **When using structural composite lumber columns, screws must be applied to the wide face of the column.**