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.

HDC product line eliminates eccentricity. Installs with SDS screws (included) to reduce slip and maintain post capacity.

MATERIAL: 10 gauge strap.

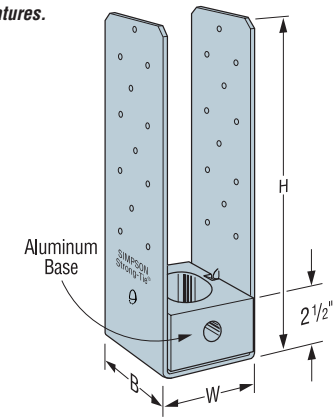
FINISH: Galvanized strap, aluminum base.

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

- ***Install on concrete.***
- Sized for 2-2x, 4x and 2-2x6 members in two load capacities center HDC on post.
- Concentric to eliminate bending on the stud.
- ***Install Simpson s code-recognized SDS¼x2½ wood screws, which are provided with the holdown. (Lag screws will not achieve the same load.)***
- Slot in the seat allows for ⅜" of adjustment perpendicular to plate. (Standard ***N series*** cut washer required.)
- Witness slot in the base to inspect the nut .
- Maximum anchor bolt height above concrete is 2½".
- ***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.***
- Aluminum standoff cannot be in contact with pressure-treated wood.

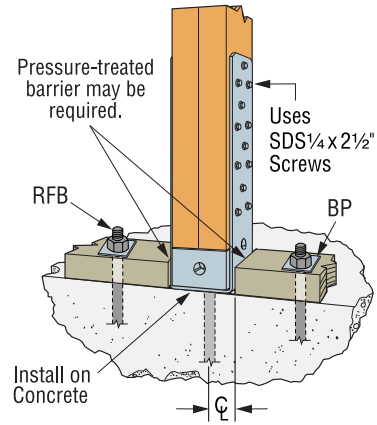
See Simpson Anchor Systems for tested, load-rated anchors and request T-Anchorspec for more information.

CODES: See page 10 for Code Listing Key Chart.



HDC10

US Patent 6,513,290



Typical HDC Installation with 2-2x4 studs (Similar with 2-2x6 studs)

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

Model No.	Post Size	W	H	B	℄	Anchor Bolt	Number of SDS ¼x2½	Avg Ult	Allowable Tension DF/SP (133)	Allowable Tension HF/SPF (133)	Concrete Bearing[7] @ 2500 psi	Holdown Deflection at Highest Allowable Design Load	Code Ref.
HDC5/22-SDS2.5	2-2x4	3⅛	9⅜	3	1⁹⁄₁₆	⅝	12	23377	4870	4215	7460	.032	45, 106, 126
HDC5/4-SDS2.5	4x4	3⁹⁄₁₆	9⅛	3	1¹³⁄₁₆	⅝	12	23377	4870	4215	9060	.046	
HDC10/22-SDS2.5	2-2x4	3⅛	14⅜	3	1⁹⁄₁₆	⅞	24	29867	9665	8425	7460	.050	
HDC10/4-SDS2.5	4x4	3⁹⁄₁₆	14⅛	3	1¹³⁄₁₆	⅞	24	29867	9665	8425	9060	.058	

1. The designer must specify anchor bolt type, length and embedment. See the SSTB Anchor Bolts.
2. See page 16 and 22 for retrofit anchor bolt.
3. 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.
4. Deflection at Highest Allowable 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 ***wood*** jig.
5. SDS screws install best with a low speed ½" drill with a ⅜" hex head driver.
6. The HDC's will be limited by wood compression capacity if installed on a plate. HDC5/22 and HDC10/22 will achieve an allowable load of 4005 lb. on a DFL plate. HDC5/4 and HDC10/4 will achieve an allowable load of 4940 lb. on a DFL plate, which does not take deflection into account.
7. Higher values may be obtained when HDC is not placed at an edge or with f'c concrete strength > 2500 psi.
8. ***When using structural composite lumber columns, screws must be applied to the wide face of the column.***