

S/HDU Holdowns

The S/HDU series of holdowns combines performance with ease of installation. The pre-deflected geometry virtually eliminates material stretch, resulting in low deflection under load. Installation using self-drilling tapping screws into the studs reduces installation time and saves labor cost.

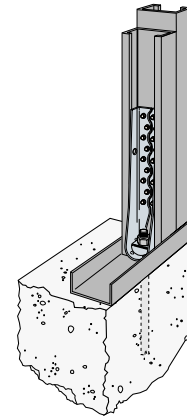
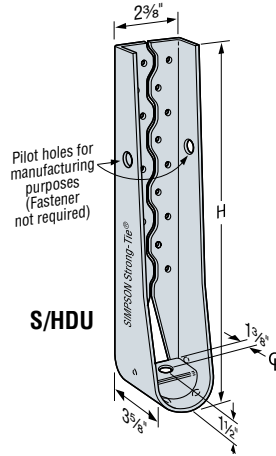
MATERIAL: 118 mil (10 ga)

FINISH: Galvanized

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

• Use #14 screws to fasten to studs

CODES: See page 8 for Code Listing Key Chart.



Typical S/HDU Installation

Holdowns & Tension Ties

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Model	H	Fasteners		Stud Member Thickness ⁴	ASD		LRFD		Nominal Tension Load ⁸	Code Ref.
		Fdn Anchor Dia ¹	Stud Fasteners		Tension Load	Deflection at ASD Load ⁷	Tension Load	Deflection at LRFD Load ⁷		
S/HDU4	7%	5/8	6-#14	2-33 (2-20ga)	2320	0.093	3705	0.149	5685	FC1
				2-43 (2-18ga)	3825	0.115	6105	0.190	9365	
				2-54 (2-16ga)	3970	0.093	6345	0.156	9730	
				Steel Fixture	4470	0.063	7165	0.103	12120	
S/HDU6	10%	5/8	12-#14	2-33 (2-20ga)	4895	0.125	8495	0.250	10470	
				2-43 (2-18ga)	6125	0.119	9690	0.250	15460	
				2-54 (2-16ga)	6125	0.108	9785	0.234	15005	
				Steel Fixture	5995	0.060	9580	0.136	14695	
S/HDU9	12%	7/8	18-#14	2-33 (2-20ga)	6965	0.103	11125	0.189	13165	
				2-43 (2-18ga)	9255	0.125	15485	0.250	21810	
				2-54 (2-16ga)	9990	0.106	15960	0.225	24480	
				Steel Fixture	12715	0.125	20510	0.177	31455	
S/HDU11	16%	7/8	27-#14	2-33 (2-20ga)	6965	0.103	11125	0.189	13165	
				2-43 (2-18ga)	9595	0.096	15330	0.162	23515	
				2-54 (2-16ga)	9675	0.110	15460	0.158	23710	
		w/ heavy hex nut	27-#14	2-43 (2-18ga) ⁶	11100	0.125	17500	0.250	24955	
				2-54 (2-16ga) ⁶	12175	0.125	19445	0.243	29825	
				Steel Fixture ⁶	12945	0.111	20680	0.163	31715	

1. Designer shall specify the foundation anchor material type, length, embedment and configuration. Tabulated loads may exceed anchor bolt ASTM A36 or A307 tension capacities.
2. See pages 26-30 for anchor bolt options.
3. See page 21 for anchor bolt retrofit options.
4. Stud design by Specifier. Tabulated loads are based on a minimum studs thickness for fastener connection.
5. 1/4" self-drilling tapping screws can be substituted for #14.

6. Heavy hex nut is required to achieve the table loads for S/HDU11.
7. Deflection at ASD and LRFD Loads includes fastener slip, holdown elongation and anchor bolt elongation (L=4").
8. Nominal Tension Load is based on the average ultimate (peak) load from tests. AISI Lateral Design standard requires holdown to have nominal strength to resist lesser of amplified seismic load or the maximum force the system can deliver.