

Strong-Drive® SDS HEAVY-DUTY CONNECTOR Screw

Structural Fastener

The Simpson Strong-Tie® Strong-Drive SDS Heavy-Duty Connector screw is a 1/4"-diameter structural wood screw ideal for various connector installations, as well as wood-to-wood applications. It installs with no predrilling and has been extensively tested in various applications.

For more information about package quantities, visit strongtie.com.

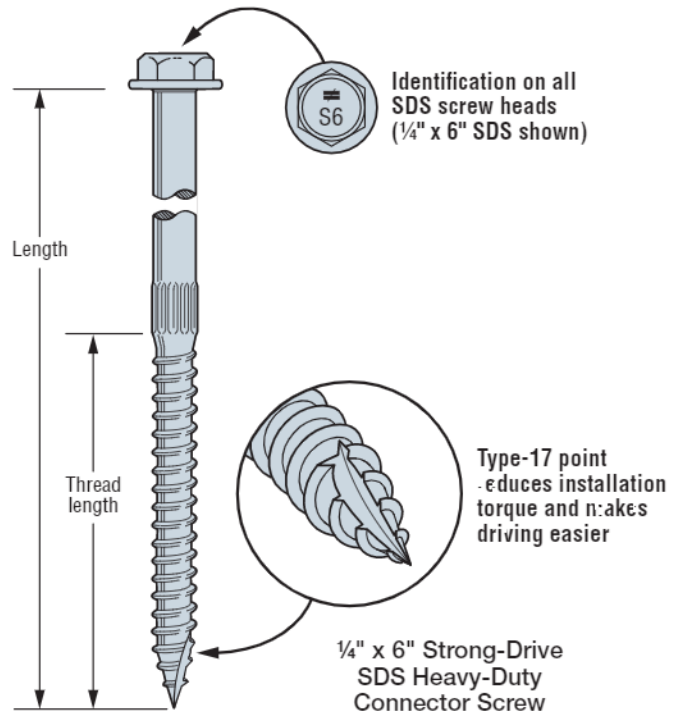
Features:

- The Type-17 point reduces installation torque and makes driving easier with no predrilling and minimal wood splitting.
- Available with a double-barrier coating or in Type 316 stainless steel. Carbon steel loads apply to corresponding stainless-steel models.
- 3/8" hex washer head is stamped with the No-Equal sign and fastener length for easy identification after installation.
- For the 3/8" hex-head driver bit, order model no. [BITHEXR38-R1](#).

Material: Heat-treated carbon steel, Type 316 stainless steel

Finish: Double barrier (all lengths); Type 316 stainless steel (1 1/2" thru 3 1/2" lengths)

Codes: See p. 11 for Code Reference Key Chart



These products are available with additional corrosion protection. For more information, see p. 14.

SS For stainless-steel fasteners, see p. 21.

Strong-Drive SDS Heavy-Duty Connector Screw

Model No.	Size (in.)	Thread Length (in.)	Fasteners per Carton ⁶	DF/SP Allowable Loads (lb.) ¹					SPF/LVL Allowable Loads (lb.) ¹					Code Ref.		
				Shear (100)				Withdrawal ⁵ (100)	Shear (100)				Withdrawal ⁵ (100)			
				Wood Side Plate ²		Steel Side Plate			Wood Side Plate ³		Steel Side Plate					
1 1/2"	1 3/4" SCL	16 ga.	14 ga. and 12 ga.	10 ga. or Greater	Wood or Steel Side Plate	1 1/2"	3/4" SPF LVL	16 ga.	14 ga. and 12 ga.	10 ga. or Greater	Wood or Steel Side Plate					
SS SDS25112	1/4 x 1 1/2	1	1,500	—	—	250	250	250	170	—	—	180	180	180	120	IBC, rL, LA
SS SDS25200	1/4 x 2	1 1/4	1,300	—	—	250	290	290	215	—	—	180	210	210	150	
SS SDS25212	1/4 x 2 1/2	1 1/2	1,100	130	—	250	390	420	255	135	—	180	280	300	180	
SS SDS25300	1/4 x 3	2	950	280	—	250	420	420	345	200	—	180	300	300	240	
SS SDS25312	1/4 x 3 1/2	2 1/4	1,100	340	310	250	420	420	385	245	245	180	300	300	210	
SS SDS25412	1/4 x 4 1/2	2 3/4	800	350	340	250	420	420	315	250	245	180	300	300	330	
SS SDS25500	1/4 x 5	2 3/4	500	350	340	250	420	420	315	250	245	180	300	300	330	
SS SDS25600	1/4 x 6	3 1/4	500	350	310	250	420	420	560	250	245	180	300	300	395	
SS SDS25800	1/4 x 8	3 1/4	400	350	310	250	420	420	560	250	245	180	300	300	395	

1. Screws may be provided with the 4CUT™ or Type-17 point.
2. Strong-Drive SDS Heavy-Duty Connector screws install best using a low-speed 1/2" drill with a 3/8" hex-head driver.
3. Shear values are valid for connections between two members with full thread penetration into the main member. For other wood side plate values, see *Fastening Systems Technical Guide* (C-F-2019TECHSUP) at strongtie.com.
4. Allowable loads are shown at a wood load duration factor of C_D = 1.0. Loads may be increased for load duration per the building code up to a C_D = 1.6. Tabulated values must be multiplied by all applicable NDS adjustment factors.
5. Withdrawal loads shown are in pounds (lb.) and are based on penetration of the screw's entire threaded section into the main member. If thread penetration into the main member is less than the thread length as shown in the table for DF/SP, reduce allowable load by 17% lb./in. of thread not in main member. Use 121 lb./in. for SPF/LVL.
6. Fasteners per Carton represents the quantity of screws that are available in bulk packaging. Screws are also available in mini-bulk and retail packs. Refer to Simpson Strong-Tie *Fastening Systems* catalog (C-F-2019) at strongtie.com.
7. LSL wood-to-wood applications that require 4 1/2", 5", 6" or 8" SDS Heavy-Duty Connector screws are limited to interior-dry use only.
8. Where predrilling is required for Strong-Drive SDS Heavy-Duty Connector screws, predrill diameter is 5/32".
9. Minimum spacing, edge, and end distance requirements are listed in ICC-ES ESR-2236. For smaller spacing, please contact Simpson Strong-Tie Engineering.