

SDS & SD Wood Screws

The Simpson Strong-Tie® Strong-Drive® screw (SDS) is a ¼" 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. The new SDS is improved with a patented new easy driving 4CUT™ tip and a corrosion resistant double-barrier coating.

The SD8 #8x1¼" wafer head screw is ideal for miscellaneous fastening applications. The needle point ensures fast starts and deep #2 Phillips drive reduces cam-out and stripping.

SDS FEATURES:

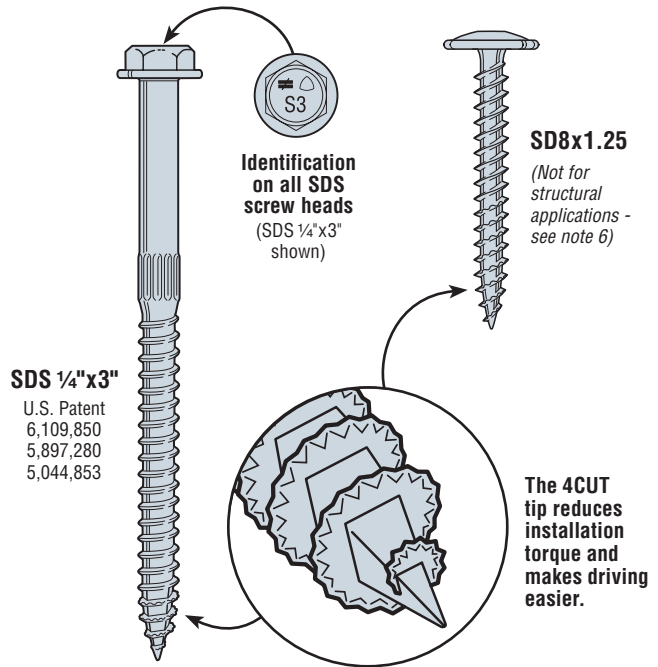
- The patented 4CUT tip has a square core and serrated threads to reduce installation torque and make driving easier with no predrilling and minimal wood splitting.
- A new double-barrier coating finish provides corrosion resistance equivalent to hot-dip galvanization. Now one screw can handle interior, exterior and certain pressure-treated wood applications (see *Corrosion Information on page 10-11 for more information*).
- ⅝" hex washer head is stamped with the No-Equal sign and fastener length for easy identification after installation.

MATERIAL: Heat-treated carbon steel

FINISH: SDS—New double-barrier coating. SDS screws may also be available yellow zinc dichromate or HDG (*Not all sizes are available in all coatings – Contact Simpson Strong-Tie for product availability and ordering information*); SD8x1.25—Electro Galvanized.

CODES: See page 12 for Code Reference Key Chart.

WARNING: Industry studies show that hardened fasteners can experience performance problems in wet or corrosive environments. Accordingly, the SD8 should be used in dry, interior, and noncorrosive environments only.



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

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Size (in.)	Model No.	Thread Length (in.)	Fasteners per Carton ⁶	DF/SP Allowable Loads ⁴						SPF/HF Allowable Loads ⁴						Code Ref.
				Shear (100) ¹					Withdrawal ⁵ (100)	Shear (100)					Withdrawal ⁵ (100)	
				Wood Side Plate ³		Steel Side Plate				Wood Side Plate ³		Steel Side Plate				
1½"	1¾" SCL	16 ga	14 ga & 12 ga	10 ga or Greater	Wood or Steel Side Plate	1½"	1¾" SPF LVL	16 ga	14 ga & 12 ga	10 ga or Greater	Wood or Steel Side Plate					
5/32 x 1¼	SD8x1.25 ^{6,7}	—	—	—	—	50	50	50	—	—	—	45	45	45	—	170
¼ x 1½	SDS25112	1	1500	—	—	250	250	250	170	—	—	180	180	180	120	15, L17, F20
¼ x 2	SDS25200	1¼	1300	—	—	—	290	290	215	—	—	—	210	210	150	
¼ x 2½	SDS25212	1½	1100	190	—	—	390	420	255	135	—	—	280	300	180	
¼ x 3	SDS25300	2	950	280	—	—	420	420	345	200	—	—	300	300	240	
¼ x 3½	SDS25312	2¼	900	340	340	—	420	420	385	245	245	—	300	300	270	
¼ x 4½	SDS25412	2¾	800	350	340	—	420	420	475	250	245	—	300	300	330	
¼ x 6	SDS25600	3¼	600	350	340	—	420	420	560	250	245	—	300	300	395	

1. Allowable loads for SDS screws are based on ICC-ES Code Report ESR-2236. Screws may be provided with the 4CUT or Type 17 tip.
2. SDS screws install best with a low speed ½" drill with a ⅝" hex head driver.
3. Wood to wood applications are based on a wood thickness of 1½" side member. All applications are based on full penetration into the main member. Refer to technical bulletin T-SDSCREWAPPS for allowable loads for other side member thicknesses.
4. Allowable loads are shown at the wood load duration factor of C_D=1.00. Loads may be increased for load duration by the building code up to a C_D=1.60.
5. Withdrawal loads shown are in pounds (lbs.) and are based on the entire threaded section installed into the main member. If thread penetration into the main member

- is less than the Thread Length as shown in the table, reduce allowable load by 172 lbs. x inches of thread not in main member. Use 121 lbs./inch for SPF.
6. DO NOT USE SD8x1.25 wood screws with structural connectors unless specifically stated in this catalog.
7. SD8 requires ¾" minimum penetration.
8. Fasteners per Carton represent the quantity of screws which are available in bulk packaging. Screws are also available in mini bulk and retail packs. Refer to Simpson Strong-Tie List Price book. Contact Simpson Strong-Tie for more information.
9. LSL wood-to-wood applications that require 4½" and 6" SDS screws are limited to interior-dry use only.