

# SCREWS

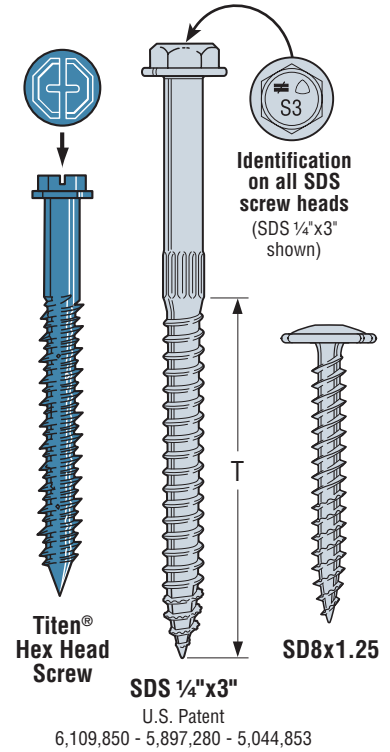
The Simpson Strong-Drive® wood screw has a hex washer head for easy driving with a 3/8" hex head socket and a low speed drill. The built-in reamer and 4CUT™ tip cuts a hole to allow installation without predrilling. Predrilling may be necessary depending on the type and moisture content of wood. Use 5/32 drill bit.

## Titen Screw Anchors for Concrete

Titen Dia. (in)	Drill Bit Dia. (in)	Embed. Depth (in)	Critical Spacing (in)	Critical Edge Dist. (in)	Tensile Resistance				Shear Resistance	
					f'c ≥ 2000 psi (13.8 Mpa) Concrete		f'c ≥ 4000 psi (27.6 Mpa) Concrete		f'c ≥ 2000 psi (13.8 Mpa) Concrete	
					Ultimate	Factored	Ultimate	Factored	Ultimate	Factored
					lbs	lbs	lbs	lbs	lbs	lbs
3/16	5/32	1	2 1/4	1 1/8	500	150	640	190	1020	305
					2.23	0.67	2.85	0.85	4.54	1.36
3/16	5/32	1 1/2	2 1/4	1 1/8	1220	365	1850	555	1670	500
					5.43	1.63	8.24	2.47	7.44	2.23
1/4	3/16	1	3	1 1/2	580	175	725	215	900	270
					2.58	0.78	3.23	0.96	4.01	1.20
1/4	3/16	1 1/2	3	1 1/2	1460	440	2005	600	1600	480
					6.50	1.96	8.93	2.67	7.13	2.14

1. These loads apply to masonry.
2. Factored resistances shown have been calculated in accordance with section D7 of CSA A23.3-94.
3. See Anchor Systems catalogue for additional information.

**WARNING:** Industry studies show that hardened fasteners can experience performance problems in wet or corrosive environments. Accordingly, use this product in dry, interior, and noncorrosive environments only. *(Titen and SD8 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.

## SDS and SD Wood Screws

Model No.	Description	Metric Equivalent (mm)	T (in)	Fasteners per Carton	Factored Shear Resistance (K <sub>D</sub> =1.00)					
					D.Fir-L			S-P-F		
					Wood to Wood	Steel Side Plates		Wood to Wood	Steel Side Plates	
						10 GA	3 GA		10 GA	3 GA
lbs	lbs	lbs	lbs	lbs	lbs					
kN	kN	kN	kN	kN	kN					
SD8x1.25	5/32 x 1 1/4" Wood Screw	4.2 x 31.8	—	—	—	105	—	—	90	—
						0.47	—	—	0.40	—
SDS25112	1/4 x 1 1/2" Wood Screw	6.1 x 38	1	1500	—	340	335	—	300	295
						1.51	1.49	—	1.34	1.31
SDS25134	1/4 x 1 3/4" Wood Screw	6.1 x 44.5	1 1/4	1400	—	400	400	—	355	355
						1.78	1.78	—	1.58	1.58
SDS25200	1/4 x 2" Wood Screw	6.1 x 50.8	1 1/4	1300	—	420	450	—	370	400
						1.87	2.00	—	1.65	1.78
SDS25212	1/4 x 2 1/2" Wood Screw	6.1 x 63.5	1 1/2	1100	—	420	450	—	370	400
						1.87	2.00	—	1.65	1.78
SDS25300	1/4 x 3" Wood Screw	6.1 x 76.2	2	950	260	420	450	205	370	400
					1.16	1.87	2.00	0.91	1.65	1.78
SDS25312	1/4 x 3 1/2" Wood Screw	6.1 x 88.9	2 1/4	900	295	420	450	235	370	400
					1.31	1.87	2.00	1.05	1.65	1.78
SDS25412	1/4 x 4 1/2" Wood Screw	6.1 x 114.3	2 3/4	800	345	420	450	280	370	400
					1.54	1.87	2.00	1.25	1.65	1.78
SDS25600	1/4 x 6" Wood Screw	6.1 x 152.4	3 1/4	600	345	420	450	280	370	400
					1.54	1.87	2.00	1.25	1.65	1.78

1. Factored resistances shown are in accordance with 3.3.2 CSA 086-01 and have been soft converted from working stress and the NDS 1997. Apply the adjustment factors K<sub>D</sub>, K<sub>SF</sub> and K<sub>T</sub> as per 10.6.6 CSA 086-01 for lag screws to the tabulated values shown.
2. Factored resistances shown assume steel side plates with F<sub>U</sub> = 45,000 psi.
3. SDS screws install best with a low speed 1/2" drill with a 3/8" hex head driver.
4. Wood to wood applications are based on a wood thickness of 1 1/2" side member and full penetration into the main member.
5. SD8x1.25" wood screws are not to be used with structural connectors unless specifically stated in this catalogue.
6. For conditions other than shown above, contact factory.
7. Withdrawal values for SDS screws may be calculated in accordance with section 10.6.5 of CSA 086-01 for 1/4" diameter lag screws with a tip length of 0.334".