

NEW!



STRONG-DRIVE® SD SCREW FOR STRUCTURAL CONNECTORS



A New Screw-Fastening Solution for Simpson Strong-Tie® Connectors

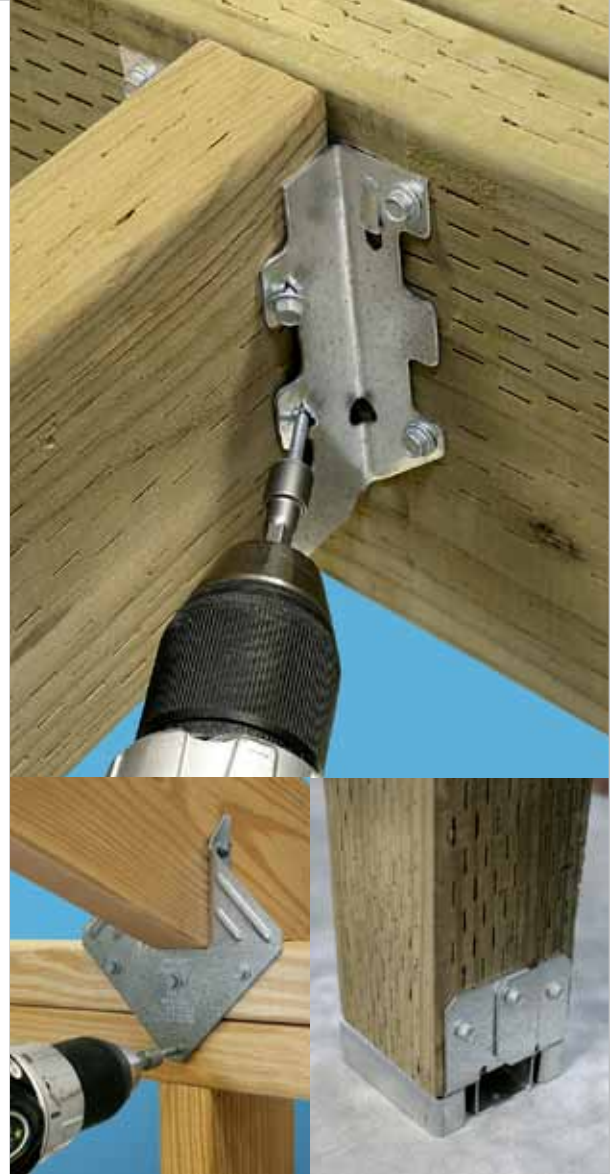
Simpson Strong-Tie introduces the Strong-Drive® SD screw for use with our structural connectors. Designed to replace nails in certain products, the load-rated SD screw has been tested and approved for use in many popular Simpson Strong-Tie® products. In certain applications screws are easier and more convenient to install than nails, and the single-fastener load values achieved by the SD screw match those of typical 10d (3") common or 16d (3½") common nails, respectively. In addition, the galvanized coating makes the SD screw ideal for both interior and most exterior conditions.

The SD screw features an optimized shank that is specifically designed to match the fastener holes in Simpson Strong-Tie connectors. The hex head virtually eliminates cam-out and helps avoid stripping of the head. The sharp point of the screw enables fast starts, and the serrated threads reduce torque for improved drivability.

SD SCREW FOR USE WITH SIMPSON STRONG-TIE® CONNECTORS

- Tested and approved for use in many of our best-selling connectors for both interior and most exterior applications*
- The single-fastener load capacity of the SD9 matches the capacity of a 10d common nail, while the single-fastener load capacity of the SD10 matches that of the 16d common nail
- Ideal for use in tight spaces where using a hammer is inconvenient
- Optimized heat-treating for ductility and strength
- Mechanically-galvanized coating meets ASTM B695 Class 55, is recommended for use with certain preservative-treated woods

**See back for a list of suitable connectors*



U.S. Patent 7,101,113

SD Series Screw

- ¼" hex drive
- Patented serrated threads
- Mechanically-galvanized coating
- Sharp point
- Head identification
- Bit included

Product Information

Model No.	Shank Size	Length (in.)	Quantities	
			Pack	Packs per Carton
SD9112R100	#9	1½	100	10
SD9112R500			500	3
SD9112MB			3000	1
SD9212R100		2½	100	6
SD9212R500			500	2
SD9212MB			2000	1
SD10112R100	#10	1½	100	10
SD10112R500			500	3
SD10112MB			3000	1
SD10212R100		2½	100	6
SD10212R500			500	2
SD10212MB			2000	1

STRONG-DRIVE® SD SCREW FOR STRUCTURAL CONNECTORS

Technical Information

Model No.	Size (in)	Metric Equivalent (mm)	Thread Length (in)	Factored Lateral Resistance ($K_D = 1.00$)							
				D-Fir-L				S-P-F			
				Side Plate				Side Plate			
				Wood		Steel		Wood		Steel	
				1/2"	1 1/2"	20 ga	12 ga	1/2"	1 1/2"	20 ga	12 ga
lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs				
kN	kN	kN	kN	kN	kN	kN	kN				
SD9112	#9x1 1/2	3.3 x 38.1	1	150	—	195	295	130	—	175	280
				0.67	—	0.87	1.31	0.58	—	0.78	1.25
SD9212	#9x2 1/2	3.3 x 63.5	1	240	230	285	390	205	195	250	360
				1.07	1.02	1.27	1.73	0.91	0.87	1.11	1.60
SD10112	#10x1 1/2	4.0 x 38.1	1	165	—	220	340	140	—	200	320
				0.73	—	0.98	1.51	0.62	—	0.89	1.42
SD10212	#10x2 1/2	4.0 x 63.5	1	270	265	325	445	230	225	290	395
				1.20	1.18	1.45	1.98	1.02	1.00	1.29	1.76

1. Factored resistances shown have been developed in accordance with 10.11 CSA O86-09. Apply the adjustment factors K_D , K_{SF} , K_T as per 10.11.4.1 CSA O86-09 to the tabulated values shown when applicable. Resistances assume full penetration into the main member.
2. Factored resistances shown assume steel side plates with $F_U = 45,000$ psi (310 MPa).
3. Factored resistances shown for 1/2" wood side plates are applicable to structural panel side members (OSB, DFP and CSP) as per 10.11.4.2 CSA O86-09.
4. Withdrawal values for SD9 and SD10 screws may be calculated in accordance with 10.11.5.2 CSA O86-09.
5. Minimum spacing, edge and end distances shall be in accordance with 10.9.2.1 CSA O86-09.
6. For condition other than shown above, contact Simpson Strong-Tie.

Connectors Approved for Use with the SD screw

Model No.	SD9		SD10		Model No.	SD9		SD10		Model No.	SD9		SD10	
	#9x1 1/2"	#9x2 1/2"	#10x1 1/2"	#10x2 1/2"		#9x1 1/2"	#9x2 1/2"	#10x1 1/2"	#10x2 1/2"		#9x1 1/2"	#9x2 1/2"	#10x1 1/2"	#10x2 1/2"
A21	•				FWH2	•				LUS24-2				•
A23	• ¹				GA1	•				LUS26		•		
A33	•				GA2	•				LUS26-2				0.92 ¹²
A44	• ²				H1	•				LUS28		•		
ABA44	•				H10	•				LUS28-2				• ¹³
ABA46			•		H2.5	•				NS1	•			
ABA66			•		H2.5A	•				NS2	•			
ABU44			•		H5	•				PBS44A			• ¹⁴	
AC4 (Max)			• ³		H8	•				PSPN58Z			•	
AC6 (Max)			• ⁴		HUS26				0.95 ⁷	RR	•			
BC4			0.96		HUS28				• ⁸	RSP4	• ¹⁵			
BC40			• ⁵		L30	•				TP15	•			
BC60			•		L50	•				TP311	•			
BCS2-2/4		•			L70	•				TP35	•			
DJT14Z				•	L90	•				TP37	•			
DPT5Z	•				LCE4			0.96 ⁹		TP39	•			
DPT7Z	•				LPC4	•				TP411	•			
EPB44PHDG			• ⁶		LTP4	•				TP45	•			
EPC44-16			•		LUC210Z	•				TP47	•			
FB24	•				LUC26Z	•				TP49	•			
FB24R	•				LUS210		•			TPA37	•			
FB26	•				LUS210-2					TPA39	•			
FB2R24	•				LUS24		0.91 ¹¹			TPA57	•			

NOTE:

1. A23 Uplift multiplier is 0.79.
2. A44 F2 multiplier is 0.89.
3. AC4 (Max) Uplift multiplier is 0.97.
4. AC6 (Max) Uplift multiplier is 0.93.
5. BC40 F1 multiplier is 0.98.
6. EPB44PHDG F1 multiplier is 0.85 and F2 multiplier is 0.90.
7. HUS26 uplift multiplier is 0.61.
8. HUS28 uplift multiplier is 0.92.
9. LCE4 uplift multiplier is 0.84.
10. LUS210-2 uplift multiplier is 0.90.
11. LUS24 uplift multiplier is 0.90.
12. LUS26-2 uplift multiplier is 0.80.
13. LUS28-2 uplift multiplier is 0.89.
14. PBS44A F1 multiplier is 0.82.
15. RSP4 F1 multiplier is 0.84.

Since testing of the SD screw is ongoing, Simpson Strong-Tie will continue to add newly approved connectors to the list. For the most current list of approved connectors, load values and applications visit www.strongtie.com/sd.

This flier is effective until January 31, 2013, and reflects information available as of October 1, 2010. This information is updated periodically and should not be relied upon after January 31, 2013; contact Simpson Strong-Tie for current information and limited warranty or see www.strongtie.com.