

SD Structural-Connector Screw

The Strong-Drive® SD screw for use with Simpson Strong-Tie® connectors

Simpson Strong-Tie introduces the Strong-Drive® SD structural-connector screw for use with our 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® connectors. In certain applications screws are easier and more convenient to install than nails, and the single-fastener load values achieved by the SD9 and SD10 exceed those of typical 10d common or 16d common nails, respectively. In addition, the galvanized coating makes the SD screw ideal for interior and most exterior conditions.

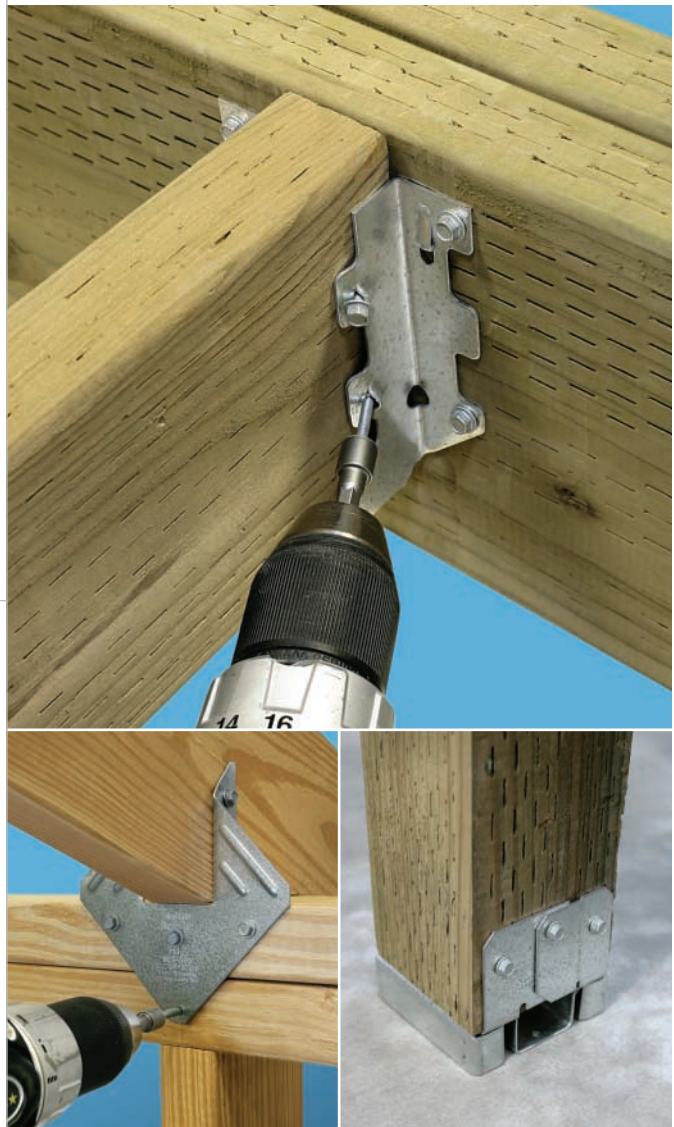
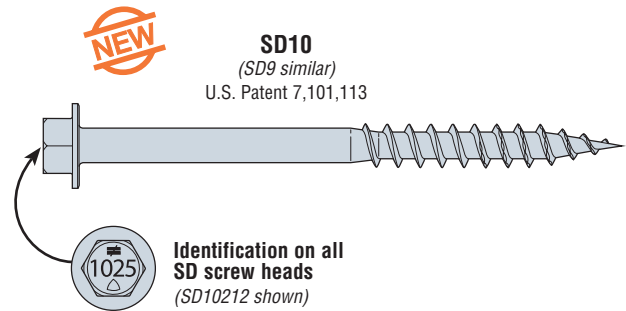
The SD structural-connector screw features an optimized shank which is specifically designed to match the diameter of the fastener holes in Simpson Strong-Tie connectors. The hex head virtually eliminates cam-out and helps avoid stripping of the head during installation. The sharp point of the screw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

- Tested and approved for use in many of our best-selling connectors for both interior and most exterior applications
- The single-fastener steel-side-plate load capacity of the SD9 exceeds the capacity of a 10d common nail, while the single-fastener load capacity of the SD10 exceeds 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 and is compliant with the 2006 International Residential Code® (R319.3) and the 2009 International Residential Code (R317.3)
- ¼" hex drive
- Head identification

MATERIAL: Heat-treated carbon steel

FINISH: Mechanically galvanized (ASTM Class 55)

CODES: Submitted for listing. Simpson Strong-Tie warranties installations of suitable connectors (see next page) with the correct size of SD structural-connector screw. Until the code listing is issued for the SD screw some building departments may not consider it an acceptable substitute for nails. Check with the local building department to determine suitability.



These products feature additional corrosion protection.

Product Information

Model No.	Shank Size	Length (in.)	Quantities	
			Box	Carton
SD9112R100	#9 (0.131")	1½	100	1000
SD9112R500			500	3000
SD9112MB			—	3000
SD9212R100		2½	100	1000
SD9212R500			500	3000
SD9212MB			—	2000
SD10112R100	#10 (0.161")	1½	100	1000
SD10112R500			500	3000
SD10112MB			—	3000
SD10212R100		2½	100	1000
SD10212R500			500	3000
SD10212MB			—	2000

Size (in.)	Model No.	Thread Length (in.)	DF/SP Allowable Loads (lbs) (100)		SPF/HF Allowable Loads (lbs) (100)			
			Shear	Withdrawal	Shear	Withdrawal		
							Steel Side Plate	Steel Side Plate
							20 ga - 12 ga	20 ga - 12 ga
#9x1½	SD9112	1	171	144	112	122		
#9x2½	SD9212	1	200	144	112	122		
#10x1½	SD10112	1	173	144	138	122		
#10x2½	SD10212	1	215	144	165	122		

1. Withdrawal loads and steel-side-plate shear loads are based on testing per AC233.
2. 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 $C_D = 1.60$.
3. Withdrawal loads are based on the entire threaded section installed into the main member.
4. Contact Simpson Strong-Tie for wood-side-plate details.

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Connectors approved for use with the SD structural-connector screw

Model No.	SD9		SD10	
	#9x1½"	#9x2½"	#10x1½"	#10x2½"
A21	•			
A23	•			
A33	•			
A34	•			
A35	•			
A44	•			
ABA44	•			
ABA46			•	
ABA66			•	
ABU44			•	
AC4 (Max)			•	
AC6 (Max)			•	
BC4			•	
BC40			•	
BC60			•	
BCS2-2/4		•		
DJT14Z				•
DPT5Z	•			
DPT7Z	•			
EPB44PHDG			•	
FB24	•			
FB24R	•			
FB26	•			
FBR24	•			
FPBM44	•			
FWH2	•			
GA1	•			
GA2	•			
H1	•			
H10	•			
H2.5	•			
H2.5A	•			
H5	•			
H8	•			
HPTZ			•	
HRS12	•			
HRS6	•			
HRS8	•			
HTP37Z	•			
HUS26				•
HUS28				•
L30	•			
L50	•			
L70	•			

Model No.	SD9		SD10	
	#9x1½"	#9x2½"	#10x1½"	#10x2½"
L90	•			
LCE4			•	
LPC4	•			
LSCZ	•			
LSTA12	•			
LSTA15	•			
LSTA18	•			
LSTA21	•			
LSTA24	•			
LSTA30	•			
LSTA36	•			
LSTA9	•			
LSTI49	•			
LSTI73	•			
LTP4	•			
LU210 (10d)	•			
LU24 (10d)	•			
LU28 (10d)	•			
LUC210Z (10d)	•			
LUC210Z (16d)			•	
LUC26Z (10d)	•			
LUC26Z (16d)			•	
LUS210		•		
LUS210-2				•
LUS24		•		
LUS24-2				•
LUS26		•		
LUS26-2				•
LUS28		•		
LUS28-2				•
MST27			•	
MST37			•	
MST48			•	
MST60			•	
MST72			•	
MSTA12	•			
MSTA15	•			
MSTA18	•			
MSTA21	•			
MSTA24	•			
MSTA30	•			
MSTA36	•			
MSTA49	•			
MSTA9	•			

Model No.	SD9		SD10	
	#9x1½"	#9x2½"	#10x1½"	#10x2½"
MSTC28	•			
MSTC40	•			
MSTC52	•			
MSTC66	•			
MSTC78	•			
MSTI26	•			
MSTI36	•			
MSTI48	•			
MSTI60	•			
MSTI72	•			
MTS12	•			
MTS16	•			
MTS20	•			
NS1	•			
NS2	•			
PC44			•	
PSPN58Z			•	
RR	•			
RSP4	•			
ST12			•	
ST18			•	
ST2115			•	
ST2122			•	
ST22			•	
ST292			•	
ST2215			•	
ST6215			•	
ST6224			•	
ST6236			•	
ST9			•	
TP15	•			
TP311	•			
TP35	•			
TP37	•			
TP39	•			
TP411	•			
TP45	•			
TP47	•			
TP49	•			
TPA37	•			
TPA39	•			
TPA57	•			

Since testing of the SD structural-connector 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.

Simpson Strong-Tie is in the process of seeking evaluation reports that include SD structural-connector screws. Check with your local building department to determine whether the correct size of SD structural-connector screw may be used as a suitable substitute for nails.