

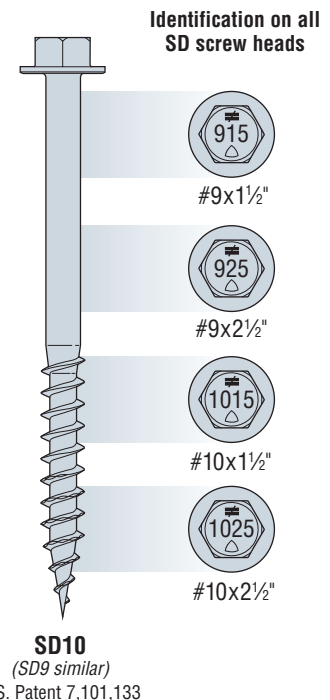
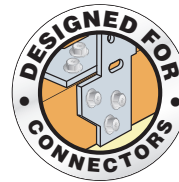
STRONG-DRIVE® STRUCTURAL SCREWS

Strong-Drive® SD Structural-Connector Screw

FEATURES:

- Specifically designed to replace nails in certain Simpson Strong-Tie® connectors, and is the only screw approved for that application. The #9 and #10 SD screws replace 10d and 16d nails respectively.
- Tested and approved for use in many of our best-selling connectors for both interior and exterior applications (see list on next page).
- Ideal for use in connector applications where more control is desired or using a hammer is inconvenient
- ¼" hex head reduces cam-out for easier installation and is stamped with the Simpson Strong-Tie "≠" sign and the fastener size for easy identification after installation
- Shank is specifically designed to match the fastener holes in Simpson Strong-Tie connectors
- Patented serrated threads and sharp point make driving easier
- Optimized heat treating for ductility and strength
- The single-fastener 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
- Mechanically-galvanized coating meets ASTM B695 Class 55, is recommended for use with certain preservative-treated woods and is compliant with the 2006 and 2009 International Residential Code® (2006 Section R319.3, 2009 Section R317.3.1)
- Connectors installed with the SD screw code listed under ICC-ES ESR-3096

Codes/Standards: ICC-ES ESR-3046



SD Structural-Connector Screw

Size	Length (in)	Retail Pack			Contractor Pack			Mini Bulk	
		Fasteners Per Pack	Packs Per Master Carton	Model No.	Fasteners Per Pack	Packs Per Master Carton	Model No.	Fasteners Per Pack	Model No.
#9	1½	100	10	SD9112R100	500	3	SD9112R500	3000	SD9112MB
#9	2½	100	6	SD9212R100	500	2	SD9212R500	2000	SD9212MB
#10	1½	100	10	SD10112R100	500	3	SD10112R500	3000	SD10112MB
#10	2½	100	6	SD10212R100	500	2	SD10212R500	2000	SD10212MB

Allowable Shear Loads with Steel Side Plate

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

1. Allowable loads are shown at the wood load duration factor of $C_D = 1.00$. Loads may be increased for load duration per the building code up to a $C_D = 1.60$.
2. Allowable withdrawal load for DF/SP is 173 lbs./in. and for SPF/HF withdrawal is 122 lbs./in.. Total withdrawal load is based on actual thread penetration into the main member.
3. Withdrawal load for wood side member thickness of 1½" is limited to the pull-through load of 130 lbs..

Allowable Shear Loads with Wood Side Plate

Size (in.)	Model No.	Thread Length (in.)	DF/SP Allowable Loads (lbs)			SPF/HF Allowable Loads (lbs)		
			Shear (100)			Shear (100)		
			Side Plate Thickness (in.)			Side Plate Thickness (in.)		
			1½/32 - ½	2³/32 - ¾	1½	1½/32 - ½	2³/32 - ¾	1½
#9x1½	SD9112	1	105	•	•	93	•	•
#9x2½	SD9212	1	118	133	130	99	94	109
#10x1½	SD10112	1	127	•	•	102	•	•
#10x2½	SD10212	1	147	168	152	106	126	123

1. Allowable loads are shown at the wood load duration factor of $C_D = 1.00$. Loads may be increased for load duration per the building code up to a $C_D = 1.60$.
2. The 1½/32" and 2³/32" side members must be plywood or OSB with minimum equivalent specific gravities of 0.50 for DF and SP design values, and 0.42 for SPF and HF design values.

STRONG-DRIVE® STRUCTURAL SCREWS

Strong-Drive® SD Structural-Connector Screw (cont.)

Connectors approved for use with the Strong-Drive® SD structural-connector screw

Model No.	SD9		SD10		Model No.	SD9		SD10		Model No.	SD9		SD10	
	#9x1½"	#9x2½"	#10x1½"	#10x2½"		#9x1½"	#9x2½"	#10x1½"	#10x2½"		#9x1½"	#9x2½"	#10x1½"	#10x2½"
A21	•				L30*	•				MSTC28*	•			
A23	•				L50*	•				MSTC40*	•			
A33*	•				L70*	•				MSTC52*	•			
A34*	•				L90*	•				MSTC66*	•			
A35*	•				LCE4*			•		MSTC78*	•			
A44*	•				LPC4*	•				MSTI26*	•			
ABA44*	•				LSCZ	•				MSTI36*	•			
ABA44R*	•				LSTA9*	•				MSTI48*	•			
ABA46*				•	LSTA12*	•				MSTI60*	•			
ABA66*				•	LSTA15*	•				MSTI72*	•			
ABA66R*				•	LSTA18*	•				MTS12*	•			
ABU44*				•	LSTA21*	•				MTS16*	•			
AC4 (Max)*				•	LSTA24*	•				MTS20*	•			
AC6 (Max)*				•	LSTA30*	•				NS1*	•			
BC4*				•	LSTA36*	•				NS2*	•			
BC40*				•	LST149*	•				PBS44A			•	
BC60*				•	LST173*	•				PC44*			•	
BCS2-2/4*		•			LTP4*	•				PC44-16*			•	
CTS218	•				LU24 (10d)*	•				PSPN58Z*			•	
DJT14Z*				•	LU26 (10d)*	•				RR*	•			
DPT5Z*	•				LU28 (10d)*	•				RSP4*	•			
DPT7Z*	•				LU210 (10d)*	•				ST9*			•	
EPB44				•	LUC26Z (10d)*	•				ST12*			•	
EPB44PHDG				•	LUC26Z (16d)*			•		ST18*			•	
EPC44*				•	LUC210Z (10d)*	•				ST2115*			•	
EPC44-16*				•	LUC210Z (16d)*			•		ST2122*			•	
FB24*	•				LUS24*		•			ST22*			•	
FB24R*	•				LUS24-2*			•		ST292*			•	
FB26*	•				LUS26*		•			ST2215*			•	
FBR24*	•				LUS26-2*			•		ST6215*			•	
FPBM44*	•				LUS28*		•			ST6224*			•	
FWH2	•				LUS28-2*			•		ST6236*			•	
GA1*	•				LUS210*		•			THASR/L29	•	•		
GA2*	•				LUS210-2*			•		THASR/L29-2	•	•		
H1*	•				MST27*			•		THASR/L422		•		
H2.5*	•				MST37*			•		TP15*	•			
H2.5A*	•				MST48			•		TP311*	•			
H4*	•				MST60			•		TP35*	•			
H5*	•				MST72			•		TP37*	•			
H8*	•				MSTA9*	•				TP39*	•			
H10*	•				MSTA12*	•				TP411*	•			
HPTZ				•	MSTA15*	•				TP45*	•			
HRS12*	•				MSTA18*	•				TP47*	•			
HRS6*	•				MSTA21*	•				TP49*	•			
HRS8*	•				MSTA24*	•				TP57*	•			
HTP37Z*	•				MSTA30*	•				TPA37*	•			
HUS26*				•	MSTA36*	•				TPA39*	•			
HUS28*				•	MSTA49*	•				TPA57*	•			
										VTCR	•	•		

* These connectors are code listed under ICC-ES ESR-3096 when installed with the SD screw. 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.

* These connectors are not load rated.

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