

SDWS27 - Strong-Drive® TIMBER SS Screw

The perfect screw for jobs where strength and premium corrosion resistance are required

Introducing the Strong-Drive® SDWS Timber SS Screw, a heavy-duty structural fastener in Type 316 stainless steel. Its heavy-duty 7mm diameter

Features and Benefits

- Fast installation — no predrilling, no counterboring, no heavy-duty equipment needed
- High withdrawal resistance
- SawTooth™ point design for fast starts and less driving torque — no need to drill pilot hole
- 7mm shank diameter for heavy-duty structural applications
- Large 16.5mm diameter flat washer head with nibs provides load-bearing area and seats flush with surface
- Large, deep T50, 6-lobe recess for secure driving
- Mid-shaft knurl aids in torque reduction
- Made from 316 Stainless Steel for extreme corrosive environments
- Load data available for all your applications

Applications

- Outdoor Structures
- Deck Structures, Ledgers, Stringers, Boundary Joists, Rim Boards
- Landscaping, Retaining Wall
- Deck, Carport, Shed, Pergola, Patio applications
- Docks, Pier's, Boardwalks, Jetty and Wharf construction
- An ideal replacement for Coach Screws

Material

- 316 Stainless Steel



Table 1. Strong-Drive® SDWS Timber SS Screw Specifications

Model No.	Head Marking (##)	Screw Length (mm)	Thread Length ^{1,2} (mm)	Diameter (mm)			Fastener Strength		
				Shank	Major	Minor	Bending Yield Moment ³ (N.mm)	Tension (kN)	Shear (kN)
SDWS27300SS-RC10	3	76	51	7	10	6	25,900	10.3	9.2
SDWS27400SS-RC10	4	102	76						
SDWS27500SS-RC10	5	127							
SDWS27600SS-RC10	6	152							
SDWS27800SS-RC10	8	203							
SDWS271000SSRC10	10	254							

1. Fastener length is measured from the underside of the head to the point.
2. Length of thread includes the point.
3. Bending yield moment calculated from characteristic tensile strength and based on minor thread diameter.
4. Tension and shear properties are based on 0.5 of the average load for screws tested in tension and shear, respectively. Shear strength is shear through the threads.

Table 2. Characteristic Capacity (Qk) for Strong-Drive® Single SDWS TIMBER SS Screws Laterally Loaded or Loaded in Withdrawal from Side Grain – Seasoned Timber for Structural Grades SG8 (upper) and SG6 (lower)

Model No.	Screw Length (mm)	Timber Joint Group	Characteristic Shear Loads (N)										Characteristic Withdrawal Capacity (N/mm) ⁶	
			Timber Side Member Thickness										Face Grain	End Grain
			35	45	63	70	90	10	115	150	200			
SDWS27300SS-RC10	76	SG8	4535	—	—	—	—	—	—	—	—	—	143	85.8
		SG6	4320	—	—	—	—	—	—	—	—	—	123	73.8
SDWS27400SS-RC10	102	SG8	7475	6320	4510	—	—	—	—	—	—	—	143	85.8
		SG6	6735	5310	4025	—	—	—	—	—	—	—	143	85.8
SDWS27500SS-RC10	127	SG8	7175	7045	7045	6320	4270	—	—	—	—	—	143	85.8
		SG6	6735	5310	5310	5415	3480	—	—	—	—	—	143	85.8
SDWS27600SS-RC10	152	SG8	7175	7045	7045	7045	7045	6085	4270	—	—	—	143	85.8
		SG6	6735	5310	5310	5310	5310	3480	—	—	—	—	143	85.8
SDWS27800SS-RC10	203	SG8	7175	7045	8935	9125	8945	7045	7045	6085	—	—	143	85.8
		SG6	6735	6735	8140	8025	9660	5310	5310	5135	—	—	143	85.8
SDWS271000SSRC10	254	SG8	7175	7045	8935	9125	8945	7045	7045	6085	6085	—	143	85.8
		SG6	6735	6735	8140	8025	9660	5310	5310	5135	5135	—	143	85.8

1. Conditions without numbers in the matrix shall not be used.
2. The main and side members shall have a characteristic density of 380 kg/m³ for SG6 and 450 kg/m³ for SG8.
3. The tabulated characteristic shear loads and withdrawal are for normal duration of load.
4. Screws shall be installed normal to the surface of the timber member.
5. Minimum fastener penetration shall be equal to the screw length less the thickness of the wood side member.
6. Tabulated characteristic values for withdrawal are in N/mm of thread length into the main member.

Simpson Strong-Tie® Australia Pty Ltd
 Call **1300 STRONGTIE** (1300 787 664)
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This flyer reflects information available as of February 14, 2024 and may be updated periodically.

Simpson Strong-Tie Limited Warranty: For the Limited Warranty that applies to Simpson Strong-Tie products, please consult www.strongtie.co.nz/warranty or www.strongtie.com.au/warranty depending on your country of purchase. To obtain a copy of the Limited Warranty, contact us at info@strongtie.com or info.au@strongtie.com depending on your country of purchase, or at the phone number provided here. The Limited Warranty contains important disclaimers, limitations and exclusions, and applies only if the products have been properly specified, installed, maintained, and used in accordance with the design limits and the structural, technical, and environmental specifications in the Simpson Strong-Tie Documentation. All future purchases of Simpson Strong-Tie products are subject to the terms of the Limited Warranty in effect as of the purchase date.

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Table 3. Minimum Recommended Spacing for Connections with Strong-Drive® SDWS Timber SS Screws.

Condition	Minimum Distance or Spacing (mm)	
Edge Distance	Perpendicular to grain loading	38
	Parallel to grain loading	38
End Distance	Perpendicular to grain loading	150
	Parallel to grain loading	150
Spacing	Between fasteners in a row	150
	Between non-staggered rows	100
	Between staggered rows	19

Edge distances, end distances, and spacing of screws shall be sufficient to prevent splitting of the timber or as required in this table, or when applicable as recommended by the structural composite timber manufacturer, whichever is more restrictive.

Specifications - SDWS Timber SS Screw

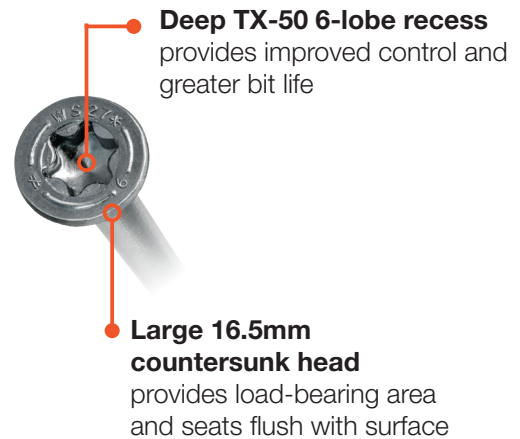
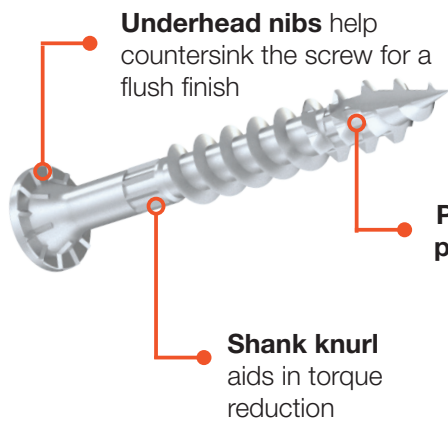
Model No.	Size (mm)	Thread	Point	Head	Material & Finish	Box Qty	Drive Size	Replacement Bit
SDWS27300SS-RC10	76	Bold Threads	SawTooth™ Point	Flat Washer Head with Nibs	316 Stainless Steel	10	T-50, 6-lobe	BIT50T-2-R1
SDWS27400SS-RC10	102							
SDWS27500SS-RC10	127							
SDWS27600SS-RC10	152							
SDWS27800SS-RC10	203							
SDWS271000SSRC10	254							

These fasteners possess a level of corrosion resistance that makes them suitable for use in some exterior and corrosive environments and with some preservative-treated timber.

For applications in higher-exposure applications, consider Type-300 series stainless-steel fasteners for superior corrosion resistance. Bit(s) included with every box of screws.

Pre-drilling and countersink may be necessary at ends, butt joints, and on applications where denser material is used. Follow board manufacturers recommendations where applicable.

Features



Applications



Docks, Pier's, Boardwalks, Jetty and Wharf construction



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