SD SS — Strong-Drive[®] Connector SS Screw

Material

316 Stainless Steel

Size: See the table below

Features & Benefits

- A premium fastener for a premium connection
- The load rated SD SS screw has been tested and approved for use in Simpson Strong-Tie stainless steel connectors

Corrosion Resistance Level

SEVERE

- Shank is specifically designed to match the fastener holes in Simpson Strong-Tie connectors
- Screws are easier and more convenient to install than nails in certain applications where using a hammer is inconvenient
- Stainless steel products are an investment in your outdoor structures. When you are ready to repair, remodel or replace your structure, SD SS screws are easy to remove, inspect, and install when compared with nailed connections
- 1/4" (6.35mm) hex drive bit included

Applications

Simpson Strong-Tie[®] stainless steel connectors



SIMPSON

Strong-Tie

Head Stamp with size for easy identification



316 Stainless Steel SD SS provides maximum corrosion protection



Patented Serrated Threads and Sharp Point make driving easier

Specifications

Model No.	Size	Thread	Point	Material & Finish	Box Qty	Drive Size
SD9112SS-R100	#9 x 38mm				100	
SD9212SS-R100	#9 x 64mm	Serrated Threads	Sharp Point	316 Stainless Steel	100	1/4" Hex Head

PLEASE NOTE: Pre-drilling and countersink may be necessary at ends, butt joints, and on applications where denser material is used. Follow the board manufacturer's recommendation where applicable. WARNINGS: Always wear PPE during installation. Corrosive environments, exposure to water, salt air, or chemicals (including some wood preservatives) may cause early failure.

Table 1. Model numbers, markings, dimensions, and basic properties for the SD Connector SS screws

Head		Throo	Throad	Thread		Diameter (mm)		Fastener Strength		
Model No.	Marking (##)	Screw Length (mm)	Length (mm)	Shank	Major	Minor	Bending Yield Moment (N∙mm)	Tension (kN)	Shear (kN)	
SD9112SS	1.5	38	25.4	3.5	1.2	3.0	4386	7.0	5.4	
SD9212SS	2.5	64	20.4	5.0	4.3	3.0	4300	7.0	0.4	
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1. Tension and shear strengths are characteristic strengths from tests.

Table 2. Head Pull-through Capacity for single SD CONNECTOR SS screws in single withdrawal connections – seasoned timber for Structural Grades SG8 and SG6

M- 11N-	Screw Length	Thread	Head Pull-through Ca Timber Head Side Mem		Head Pull-through Capacity - SG6 (N) Timber Head Side Member Thickness (mm)	
Model No.	(mm)	Length (mm)	12 - 20 ≥20 (WSP) (WSP)		12 - 20 (WSP)	≥20 (WSP)
SD9112SS SD9212SS	38 64	25.4	1700	3200	1200	2200

1. SD SS screws shall be installed normal to the face of the timber

This flyer reflects information available as of September 22, 2021 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. To obtain a copy of the Limited Warranty, contact us at info.nz@strongtie.com, or at the 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. Characteristic Capacity (Qk) for single SD CONNECTOR SS screws in single shear connections – seasoned timber for Structural Grades SG8 and SG6

Screw Length	Thread	Characteristic Shear Capacity - SG8 (N)			Characteristic Shear Capacity - SG6 (N)			
		Timber Side Member Thickness (mm)			Timber Side Member Thickness (mm)			
Model No.	(mm)	Length (mm)	11.9-12.7 18.3-19.1 (WSP) (WSP) 35		35	11.9-12.7 (WSP)	18.3-19.1 (WSP)	35
SD9112SS	38	25.4	1970	-	-	1745	-	-
SD9212SS	64	20.4	2185	2455	2405	1815	1745	2015

1. SD SS screws shall be installed normal to the face or edge of the timber.

Table 4. Characteristic Capacity (Qk) for single SD CONNECTOR SS screws in single shear connections – steel-to-timber (side grain) for seasoned Structural Grades SG8 and SG6

Model No.	Screw Length (mm)	Thread Length (mm)	Characteristic Shear Capacity 1-mm Steel-to-Timber (N)		
		SG8	SG6		
SD9112SS	38	25.4	2470	1595	
SD9212SS	64	20.4	2940	1595	
	SD9112SS	SD9112SS 38	Model No. Length (mm) Length (mm) SD9112SS 38 25.4	Model No. Screw Length (mm) Thread Length (mm) 1-mm Stee (f) SD9112SS 38 25.4 2470	

1. SD SS screws shall be installed normal to the face or edge of the timber.

2. Connection withdrawal strength shall be based on thread length penetration

into the point-side member and shall be the lesser of connection withdrawal strength and pull-through resistance.

Table 5. Characteristic Withdrawal Capacity (Qk) for single SD CONNECTOR SS screws – seasoned timber for Structural Grades SG8 and SG6.

Model No.	Screw	Thread	Characteristic Withdrawal Value (N/mm)		
	Length (mm) Length (n	Length (mm)	SG8	SG6	
SD9112SS	38	25.4	104	86	
SD9212SS	64	20.4	124	00	

1. Connection withdrawal strength shall be based on thread length penetration

into the point-side member and shall be the lesser of connection withdrawal strength and pull-through resistance.

Table 6. Minimum recommended spacing for connections with SD CONNECTOR SS screws

	Condition	Minimum Distance or Spacing (mm)
Edge Distance	Perpendicular to grain loading	25
Euge Distance	Parallel to grain loading	13
End Distance	Perpendicular to grain loading	50
Ellu Distalice	Parallel to grain loading	50
	Between fasteners in a row	50
Spacing	Between non-staggered rows	13
	Between staggered rows	13

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