Structural Fasteners for Connecting Timber-To-Timber

Strong-Drive® SDWC TRUSS Screw

The Strong-Drive® SDWC TRUSS screw provides a truss and rafter-to-top plate connection as well as a method to fasten studs to top or bottom plates. The fully-threaded shank engages the entire length of the fastener providing a secure connection.

Material: Carbon steel.

SDWC15450-E-Coat™; SDWC15600-Clear Zinc Coating (with Orange Topcoat). See Corrosion Information.

Related Links For more information and drawings click here to visit webpage

Technical Data

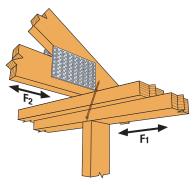
Model No.	Fastener Length (mm)	Thread Length (mm)	Side Member (SG8)	Main Member (SG8)	Characteristic Lateral Load, R _k (kN)		Characteristic Load, R _k (kN)
					F ₁	F ₂	Uplift
SDWC15450	114	108	Single Plate (45mm)	Single Stud (45mm)	_	3.5	6.1
SDWC15600	152	136	Double Plate (80–90mm)	Single Joist/Rafter (45mm)	2.8	4.3	11.8
			Single Plate (45mm)	Single Stud (45mm)	_	2.5	6.1
			Double Plate (80–90mm)	Single Stud (45mm)	_	3.5	8.9

- 2. 3.
- Main Member is the part where the fastener tip is embedded. Side Member is the part adjacent to the fastener head. F1 is loading parallel to the wall (in the wall plane). Minimum penetration into the main member shall be 25 mm. F2 is loading perpendicular to the wall (out of the wall plane). Minimum penetration into the main member shall be 25 mm. Uplift is calculated by taking the lowest of the withdrawal and pull-through load.
- Shear values may be doubled if two fasteners are used. Uplift values must be multiplied by 0.75 if two fasteners are used

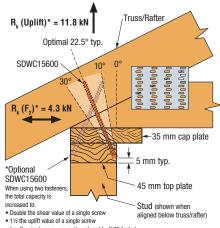
Model No.	Fastener Length (mm)	Thread Length (mm)	Main Member (SG8)	Characteristic Withdrawal Load, R _{k,w} (N/mm)	Characteristic Pull-through Load, R _{k,w} (N/mm)	
SDWC15450	114	108	End Grain Single Stud (45mm)	96	117	
SDWC15600	152	136	Edge Single Joist/Rafter (45mm)	166	_	
			Face Single Plate (45mm)	139	133	
			Face Double Plate (80–90mm)	147	164	

- Withdrawal is the capacity of the fastener tip pulling out of the main member.
- Pull-through is the capacity of the head pulling through the side member

Typical Roof-to-Wall Connection

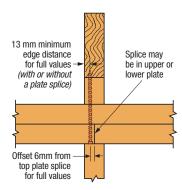


Typical single SDWC installation



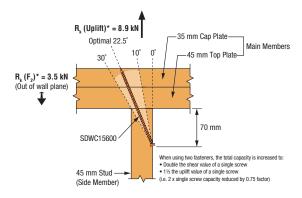
Uplift and Shear Capacity Truss/Rafter to Plate Condition

(Optional second screw lighter shade)



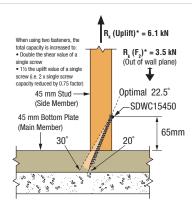
Min. edge distance for top plate splice

Stud-to-Plate Connections



Stud-to-top plate condition

(This application requires SDWC15600)

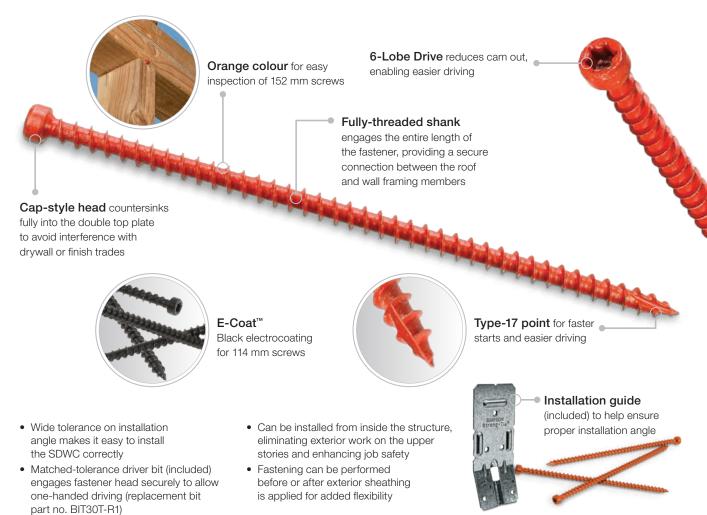


Stud-to-bottom plate condition over concrete/masonry foundation

(This application requires SDWC15450)

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Strong-Drive® SDWC TRUSS Screw Features



Product and Packaging Information

Fastener Model	Length (mm)	Finish	Bit Included	Guide Included	Fasteners Per Pack	Packs Per Carton	Model No.
SDWC15600	152	Clear Zinc Coating (with Orange Topcoat)	ВІТЗОТ	SDWC-GUIDE	50	6	SDWC15600-KT
SDWC15450	114	E-Coat Black	BIT30T	SDWC-GUIDE275	50	6	SDWC15450-KT

