

S-WD 13C 4.8xL; 5.5xL; 6.3xL Coated self-drilling wing tip screws

Product Data

General information

Material Specification:

Carbon steel: case-hardened

Coating : Duplex Coating

Fastening Tool:

Screw driver: Hilti ST 1800-A22 / ST 1800

Bit: S-B PH 2 T - 4.8xL

Bit: S-B PH 3 T- 5.5xL/6.3xL

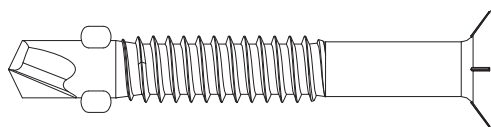
Bit holder: S-BH R 50 M

Item no. 257618

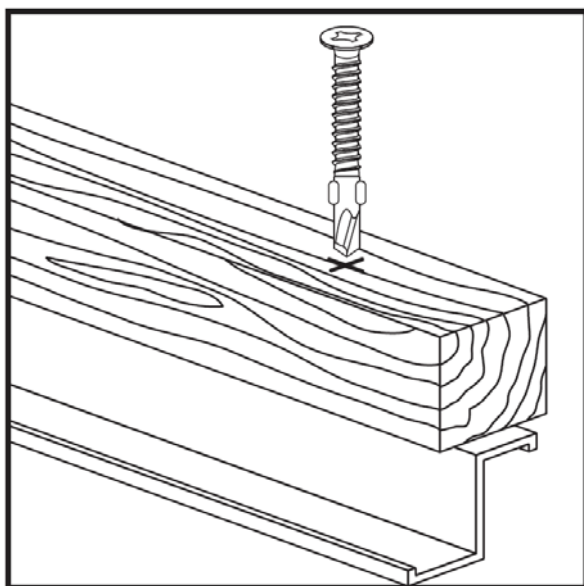
Item no. 258126

Item no. 408553

Dimensions



Applications



Load data

Drilling capacity: 6.3xL - max DC = 6.5 mm

Characteristic loads 6.3xL - Ø 6.3 mm		Component II steel with t_{II} [mm] S280GD, S320GD or S350GD (EN 10326)		
		2.00	3.00	4.00
		Shear force V_{Rk} [kN]		
Component I Solid timber S10/C24 ($\rho_k \geq 350 \text{ kg/m}^3$) t_I [mm]	20	1.36	1.36	1.36
	30	1.36	1.36	1.36
	40	1.36	1.36	1.36
	50	1.36	1.36	1.36
	60	1.36	1.36	1.36
	Tensile force N_{Rk} [kN]			
	20	1.21	1.21	1.21
	30	1.21	1.21	1.21
	40	1.21	1.21	1.21
	50	1.21	1.21	1.21
	60	1.21	1.21	1.21

Drilling capacity: 5.5xL - max DC = 5.5 mm

Characteristic loads 5.5xL - Ø 5.5 mm		Component II steel with t_{II} [mm] S280GD, S320GD or S350GD (EN 10326)		
		2.00	3.00	4.00
		Shear force V_{Rk} [kN]		
Component I Solid timber S10/C24 ($\rho_k \geq 350 \text{ kg/m}^3$) t_I [mm]	20	1.40	1.40	1.40
	30	1.40	1.40	1.40
	40	1.40	1.40	1.40
	50	1.40	1.40	1.40
	60	1.40	1.40	1.40
	Tensile force N_{Rk} [kN]			
	20	1.00	1.00	1.00
	30	1.00	1.00	1.00
	40	1.00	1.00	1.00
	50	1.00	1.00	1.00
	60	1.00	1.00	1.00

Drilling capacity: 4.8xL - max DC = 4.5 mm

Characteristic loads 4.8xL - Ø 4.8 mm		Component II steel with t_{II} [mm] S280GD, S320GD or S350GD (EN 10326)		
		2.00	3.00	4.00
		Shear force V_{Rk} [kN]		
Component I Solid timber S10/C24 ($\rho_k \geq 350 \text{ kg/m}^3$) t_I [mm]	20	0.84	0.84	0.84
	30	0.84	0.84	0.84
	40	0.84	0.84	0.84
	50	0.84	0.84	0.84
	60	0.84	0.84	0.84
	Tensile force N_{Rk} [kN]			
	20	0.81	0.81	0.81
	30	0.81	0.81	0.81
	40	0.81	0.81	0.81
	50	0.81	0.81	0.81
60	0.81	0.81	0.81	

Safety factors

	Tension	Shear
Partial safety concept		
Partial safety factor	$\gamma_M = 1.33$	$\gamma_M = 1.33$
Design load	$N_{Rd} = N_{Rk} / 1.33$	$V_{rec} = V_{Rd} / 1.33$
Global safety concept		
Global safety factor	$\gamma_{GLOB} = 2.0$	$\gamma_{GLOB} = 2.0$
Recommended load	$N_{rec} = N_{Rk} / 2.0$	$V_{rec} = V_{Rk} / 2.0$

Screw Selection

Screw program

Drilling thickness max. DC [mm]	Fastening thickness max. MF [mm]	Dimensions (dxL) [mm]	Head size AF	Package contents	Ordering designations	Item no.
4.8mm	20mm	4.8x38	9.1mm	200	S-WD 13C 4.8 x 38	283636
5.5mm	27mm	5.5x50	10.1mm	100	S-WD 13C 5.5 x 50	283637
5.5mm	40mm	5.5x65	10.1mm	100	S-WD 13C 5.5 x 65	283638
5.5mm	53mm	5.5x85	10.1mm	100	S-WD 13C 5.5x85	287078
5.5mm	80mm	5.5x100	10.1mm	100	S-WD 13C 5.5x85	283639
5.5mm	50mm	6.3x70	11.1mm	100	S-WD 13C 6.3x70	416235
6.0mm	63mm	6.3x87	11.1mm	100	S-WD 13C 6.3x87	416236