

S-MP 52 Z 6.3×L case-hardened carbon steel self-tapping screw

Product data

General information

Material specification:

galvanized, with fitted EPDM sealing washer

Ø 16 mm.

Coloured screws available on request.

Fastening tools:

Drilling tool:

Hilti UD30

Screwdriver:

Hilti ST 1800

Depth gauge set:

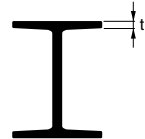
Item no. 304611

Nut set driver S-NSD 3/8": Item no. 308905

HSS drill bit

Recommended pre-drilled hole diameter in t_f:

t/mm	1.25	1.50	2.00	4.00	6.00	≥7.00
Predrilled Ø mm:	5.00	5.00	5.30	5.30	5.50	5.70



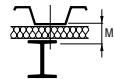
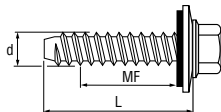
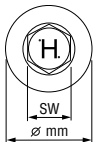
Dimensions

Uses:

Fastening sheet steel to steel framing, with or without intermediate insulating material.

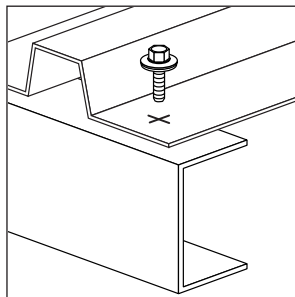
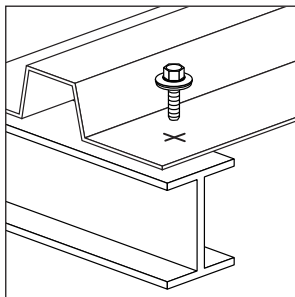
Steel framing Depth of engagement min. 1.25 mm

Timber framing Unsuitable



Applications

Examples



Load data

Design data

Component II steel with t_{II} [mm]
S280GD or S320GD (DIN EN 10326)

3.00	4.00	6.00
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Component I

steel with t_I [mm]
S280GD or S320GD
(DIN EN 10326)

Shear force $V_{R,k}$ [kN]

0.63	2.80	2.80	2.80
0.75	2.80	3.60	3.60
0.88	2.80	3.60	4.60
1.00	2.80	3.60	4.60

Tension force $N_{R,k}$ [kN]

0.63	3.20	3.20	3.20
0.75	3.80	3.80	3.80
0.88	3.80	3.80	3.80
1.00	4.80	4.80	4.80

Safety factors according to EN 1993-1-3 and CUAP 06.02/07

	Tension	Shear
Partial safety concept		
Partial safety factor	$\gamma_M = 1.33$	$\gamma_M = 1.33$
Influence of cyclic loading	$\alpha_{cyclic} = 1.0$	- / -
Design load	$N_{Rd} = 1.0 \cdot N_{Rk} / 1.33$	$V_{Rd} = V_{Rk} / 1.33$
Global safety concept		
Global safety factor *	$\gamma_{GLOB} = 2.0$	$\gamma_{GLOB} = 2.0$
Recommended load	$N_{rec} = 1.0 \cdot N_{Rk} / 2.0$	$V_{rec} = V_{Rk} / 2.0$

* Note: The global safety factor of 2.0 includes a partial safety factor of $\gamma_F = 1.5$ for wind load. For other loads safety factors should be applied in accordance with the appropriate standards.

Screw selection
Screw program

Fastening thickness MF max. mm	Dimensions (dxL) mm	Sealing washer ∅ mm	Head size AF	Package contents	Ordering designation	Item no.
10	6.3x19	16	3/8"	500	S-MP52Z 6.3x19	375279
16	6.3x25	16	3/8"	500	S-MP52Z 6.3x25	375280
23	6.3x32	16	3/8"	250	S-MP52Z 6.3x32	375281
29	6.3x38	16	3/8"	250	S-MP52Z 6.3x38	375282
41	6.3x50	16	3/8"	250	S-MP52Z 6.3x50	375283
54	6.3x63	16	3/8"	100	S-MP52Z 6.3x63	375284
66	6.3x75	16	3/8"	100	S-MP52Z 6.3x75	375285
79	6.3x88	16	3/8"	100	S-MP52Z 6.3x88	375286
91	6.3x100	16	3/8"	100	S-MP52Z 6.3x100	375278