

## OD Self-drilling screws for timber

Special design of the drill point guaranteeing quick and firm installation in wooden substrate



### Approvals and Reports

- ETA-13/0203



According to colorsystems:

RAL

### Product information

#### Features and benefits

- Coloured polyester protective coating with a thickness of 45-50 µm (RAL, NCS, RR), provides additional protection against corrosion. Various colours available to suit all metal sheet variants. UV stabilizers ensure colour quality over a long period of use.
- Hardened surface of the thread (flexible core). Corrosion resistant zinc coating has a thickness of no less than 12µm. Shape and type of thread designed specifically for use in wood construction.
- Self vulcanizing EPDM washer. Temperature and UV resistant. The special shape of the washer ensures proper seating of the sealing material on the outer cladding material fixture which guarantees a proper seal.
- The drill point is designed to provide a fast and hassle-free installation in wood. Sharp point of the drill prevents movement of the surface of the fixture.

#### Applications

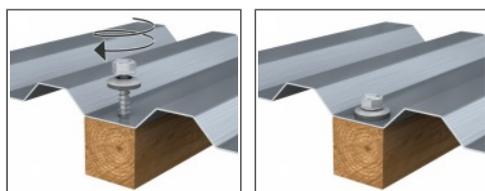
- For fixing of: Profiled sheet to wood

#### Base materials

Approved for use in:

- Timber

### Installation guide

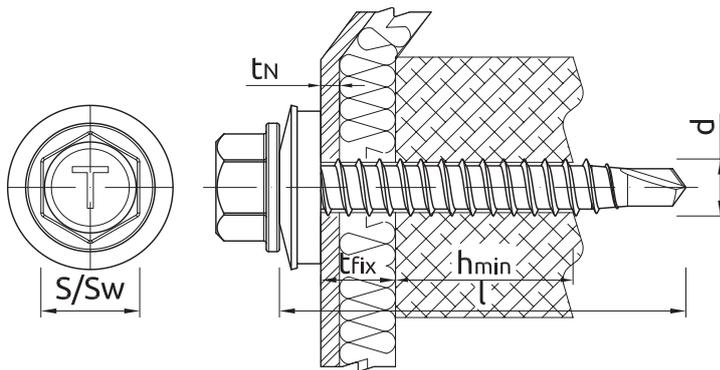


1. Screw must be installed at 90 degrees to substrate.
2. Magnetic driver must be used.
3. Lowest torque setting on impact screwdriver to start.
4. Reduce speed when the washer starts to deform.
5. Use a cordless Impact screwdriver. Note: Never use a power drill.
6. For installation please use screwdriver of load capacity 1600 - 2000 rpm with regulated trogue.

## Product information

Size	Product Code	Screw			Fixture	Max. drilling thickness	Washer size
		Diameter	Length	Head size	Max. thickness with washer		
		d	l	S	t <sub>fix</sub>		
[mm]							
Ø4.8	OD-48028	4.8	28	8	2.5	2.5	14
	OD-48035	4.8	35	8	1.5	2.5	14
	OD-48055	4.8	55	8	19.5	2.5	14

## Installation data



Size			Ø4.8
Screw diameter	d	[mm]	4.8
Hole diameter in substrate	d <sub>0</sub>	[mm]	-
Min. hole depth in substrate	h <sub>0</sub>	[mm]	-
Min. installation depth	h <sub>nom</sub>	[mm]	30
Min. substrate thickness	h <sub>min</sub>	[mm]	30
Min. spacing	s <sub>min</sub>	[mm]	30
Min. edge distance	c <sub>min</sub>	[mm]	25
Wrench size	Sw	[mm]	8

## Basic performance data

Performance data for single screw without influence of edge distance and spacing

Size	TENSION LOAD		SHEAR LOAD	
	Ø4.8 (T14)		Ø4.8	
<b>MEAN ULTIMATE LOAD</b>				
Substrate thickness min. 20mm	[kN]	2.21	0.96	
<b>CHARACTERISTIC LOAD</b>				
Substrate thickness min. 20mm	[kN]	1.80	0.74	
<b>DESIGN LOAD</b>				
Substrate thickness min. 20mm	[kN]	1.35	0.56	
<b>RECOMMENDED LOAD</b>				
Substrate thickness min. 20mm	[kN]	0.97	0.40	

## Design performance data

DESIGN PERFORMANCE DATA Ø4.8

TENSION LOAD

Size			Ø4.8
Substrate thickness	$h_{min}$	[mm]	0.20
Characteristic load	$N_{Rk}$	[kN]	1.80
Design resistance $\gamma_{MS} = 1.33$	$N_{Rd}$	[kN]	1.35

TENSION LOAD TO PULL SCREW WITH WASHER 14 THROUGH FIXTURE

Size			Ø4.8				
Sheet metal thickness	$t_N$	[mm]	0.40	0.63	0.50	0.75	1.00
Characteristic resistance	$N_{o,Rk}$	[kN]	1.62	3.56	2.64	4.27	4.75
Design resistance $\gamma_{MS} = 1.33$	$N_{o,Rd}$	[kN]	1.22	2.68	1.98	3.21	3.57

SHEAR LOAD

Size			Ø4.8		
Sheet metal thickness	$t_N$	[mm]	0.50	0.63	0.75
<b>SUBSTRATE THICKNESS 0.20 mm</b>					
Characteristic resistance	$V_{Rk}$	[kN]	0.74	1.22	1.25
Design resistance $\gamma_{Mc} = 1.33$	$V_{Rd}$	[kN]	0.56	0.92	0.94

## Product commercial data

Product Code	Washer size [mm]	Quantity [pcs]			Weight [kg]			Bar Codes
		Box	Outer	Pallet	Box	Outer	Pallet	
OD-48028 <sup>1)</sup>	14	250	4000	96000	1.02	16.3	421.7	5906675209166
OD-48035 <sup>1)</sup>	14	250	3000	96000	1.13	13.6	463.9	5906675334325
OD-48055 <sup>1)</sup>	14	100	1600	38400	0.64	10.2	275.8	5906675013305

1) ETA-13/0203