

[English]: ODX Wkręt samowiercący do drewna

Special design kind of head type Countersunk Oval with Torx recess to ensure aesthetic looks



Approvals and Reports

- ETA-13/0203
- UKTA-22/6370



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

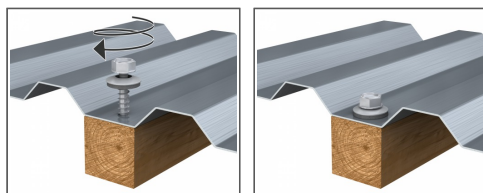
- For fixing of: Profiled sheet to wood

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 troque.

Product information

Size	Product Code	Screw		Fixture	Washer size	Max. drilling thickness	Screw drive	RAL Colour
		Diameter	Length	Max. thickness with washer				
		d	l	t _{fix}				
		[mm]						
Ø4.8	ODX-48035A	4.8	35	1.5	14	2.5	T20	-
	ODX-48035A7016	4.8	35	1.5	14	2.5	T20	7016
	ODX-48035A7024	4.8	35	1.5	14	2.5	T20	7024
	ODX-48035A8017	4.8	35	1.5	14	2.5	T20	8017
	ODX-48035A9005	4.8	35	1.5	14	2.5	T20	9005
	ODX-48035A3005	4.8	35	1.5	14	2.5	T20	3005
	ODX-48035A3009	4.8	35	1.5	14	2.5	T20	3009
	ODX-48035A3011	4.8	35	1.5	14	2.5	T20	3011
	ODX-48035A5005	4.8	35	1.5	14	2.5	T20	5005
	ODX-48035A5010	4.8	35	1.5	14	2.5	T20	5010
	ODX-48035A6011	4.8	35	1.5	14	2.5	T20	6011
	ODX-48035A6020	4.8	35	1.5	14	2.5	T20	6020
	ODX-48035A6029	4.8	35	1.5	14	2.5	T20	6029
	ODX-48035A7005	4.8	35	1.5	14	2.5	T20	7005
	ODX-48035A7011	4.8	35	1.5	14	2.5	T20	7011
	ODX-48035A7035	4.8	35	1.5	14	2.5	T20	7035
	ODX-48035A8003	4.8	35	1.5	14	2.5	T20	8003
	ODX-48035A8004	4.8	35	1.5	14	2.5	T20	8004
	ODX-48035A8019	4.8	35	1.5	14	2.5	T20	8019
	ODX-48035A8023	4.8	35	1.5	14	2.5	T20	8023
ODX-48035A9002	4.8	35	1.5	14	2.5	T20	9002	
ODX-48035A9003	4.8	35	1.5	14	2.5	T20	9003	
ODX-48035A9006	4.8	35	1.5	14	2.5	T20	9006	
ODX-48035A9007	4.8	35	1.5	14	2.5	T20	9007	
ODX-48035A9010	4.8	35	1.5	14	2.5	T20	9010	

Installation data

Size	Ø4.8		
Hole diameter in substrate	d ₀	[mm]	-
Min. hole depth in substrate	h ₀	[mm]	-
Min. installation depth	h _{nom}	[mm]	30
Min. substrate thickness	h _{min}	[mm]	30
Min. spacing	s _{min}	[mm]	30
Min. edge distance	c _{min}	[mm]	25
Screw drive	-		T20
Screw diameter	d	[mm]	4.8

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
MEAN ULTIMATE LOAD				
Substrate thickness min. 20mm	[kN]	2.21		0.96
CHARACTERISTIC LOAD				
Substrate thickness min. 20mm	[kN]	1.80		0.74
DESIGN LOAD				
Substrate thickness min. 20mm	[kN]	1.35		0.56

Basic performance data

Size	TENSION LOAD		SHEAR LOAD	
	Ø4.8 (T14)		Ø4.8	
RECOMMENDED LOAD				
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_{oRk}	[kN]	1.62	3.56	2.64	4.27	4.75
Design resistance $\gamma_{Ms} = 1.33$	N_{oRd}	[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
SUBSTRATE THICKNESS 0.20 mm					
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]	RAL Colour	Quantity [pcs]			Weight [kg]			Bar Codes
			Box	Outer	Pallet	Box	Outer	Pallet	
ODX-48035A ¹⁾	14		250	3000	72000	1.46	17.5	450.5	5906675384160
ODX-48035A7016 ¹⁾	14	7016	250	3000	72000	1.46	17.5	450.5	5906675384269
ODX-48035A7024 ¹⁾	14	7024	250	3000	72000	1.46	17.5	450.5	5906675384276
ODX-48035A8017 ¹⁾	14	8017	250	3000	72000	1.46	17.5	450.5	5906675384290
ODX-48035A9005 ¹⁾	14	9005	250	3000	72000	1.46	17.5	450.5	5906675384320
ODX-48035A3005 ¹⁾	14	3005	250	3000	72000	1.46	17.5	450.5	5906675384177
ODX-48035A3009 ¹⁾	14	3009	250	3000	72000	1.46	17.5	450.5	5906675384184
ODX-48035A3011 ¹⁾	14	3011	250	3000	72000	1.46	17.5	450.5	5906675384191
ODX-48035A5005 ¹⁾	14	5005	250	3000	72000	1.46	17.5	450.5	5906675384207
ODX-48035A5010 ¹⁾	14	5010	250	3000	72000	1.46	17.5	450.5	5906675384214
ODX-48035A6011 ¹⁾	14	6011	250	3000	72000	1.46	17.5	450.5	5906675384221
ODX-48035A6020 ¹⁾	14	6020	250	3000	72000	1.46	17.5	450.5	5906675384238
ODX-48035A6029 ¹⁾	14	6029	250	3000	72000	1.46	17.5	450.5	5906675384245
ODX-48035A7005 ¹⁾	14	7005	250	3000	72000	1.46	17.5	450.5	5906675437330
ODX-48035A7011 ¹⁾	14	7011	250	3000	72000	1.46	17.5	450.5	5906675384252
ODX-48035A7035 ¹⁾	14	7035	250	3000	72000	1.46	17.5	450.5	5906675505831
ODX-48035A8003 ¹⁾	14	8003	250	3000	72000	1.46	17.5	450.5	5906675403380
ODX-48035A8004 ¹⁾	14	8004	250	3000	72000	1.46	17.5	450.5	5906675384283
ODX-48035A8019 ¹⁾	14	8019	250	3000	72000	1.46	17.5	450.5	5906675384306
ODX-48035A8023 ¹⁾	14	8023	250	3000	72000	1.46	17.5	450.5	5906675415284
ODX-48035A9002 ¹⁾	14	9002	250	3000	72000	1.46	17.5	450.5	5906675384313
ODX-48035A9003 ¹⁾	14	9003	250	3000	72000	1.46	17.5	450.5	5906675493442
ODX-48035A9006 ¹⁾	14	9006	250	3000	72000	1.46	17.5	450.5	5906675384337

Product commercial data

Product Code	Washer size [mm]	RAL Colour	Quantity [pcs]			Weight [kg]			Bar Codes
			Box	Outer	Pallet	Box	Outer	Pallet	
ODX-48035A9007 ¹⁾	14	9007	250	3000	72000	1.46	17.5	450.5	5906675422923
ODX-48035A9010 ¹⁾	14	9010	250	3000	72000	1.46	17.5	450.5	5906675384344

1) ETA-13/0203