

WDD Self-drilling screw with EPDM washer for fixing steel sheets in wooden substrate

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POLISH
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ETA-16/0443



Description

Carbon-steel self-drilling screw with EPDM washer for fixing steel sheets and steel roof tiles in timber substrate.

Protective coating / Material



Technical parameters

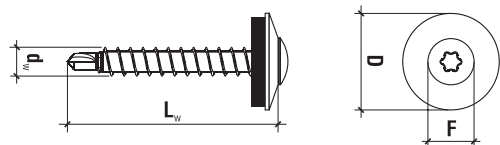
Screw diameter	d_w [mm]	4.8
Drilling capacity	t_{max} [mm]	2x1.25
Drive type	-	TX 20
Head height	k [mm]	2.0
Head diameter	F [mm]	9.0
Tip length	[mm]	5.0
Washer (D)	WDD/WDD-D	aluminium/EPDM (A14)
Screw material	WDD/WDD-D	heat-treated carbon steel
Protective coating	WDD	galvanized zinc coating min. 12µm
	WDD-D	ceramic coating SQ
Paint coating	RAL	powder min. 60 µm
Substrate material	timber	min. C24
Technical approval	[-]	ETA-16/0443

Features and advantages

Self-drilling tip	Ability of drilling plates of thickness up to 2.5 mm, short time of fixing
EPDM washer	It seals and secures the connection from corrosion
Possibility of painting according to RAL Palette	Permanent colour adjusted to roof covering, resistant to UV radiation and atmospheric conditions
Flat head of screw with TORX-20 socket	Modern shape of head provides aesthetic appearance of the connection, the head adjusts to the surface of the fixed plates
Anti-corrosion coating - electro-galvanized (WDD)	Thickness of zinc coating min. 12 µm, guarantee of quality and high level of anti-corrosion protection
Anti-corrosion coating - ceramic coating (WDD-D)	Very high level of anti-corrosion protection (several times higher than the traditional galvanization)

Installation parameters

Screw diameter	d_w [mm]	4.8
Min. substrate thickness	h_{min} [mm]	20 / 30
Fastener anchorage depth	h_{eff} [mm]	20 / 30
Min. spacing	S_{min} [mm]	50
Min. edge distance	C_{min} [mm]	25



* - made to order

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Ø	Code				d _w x L _w [mm]	Max. effective length t _{fix} [mm]	
ø4.8	WDD-48035	WDD-48035-RAL	WDD-D-48035	WDD-D-48035-RAL	4.8 x 35	5	250
		standard / made to order ¹	made to order ²	made to order ²			

¹ RAL colours other than our permanent offer (standard RAL colour chart) are available for orders of minimum 210000 pcs.

² Minimum order quantity per size & colour - 210000pcs

How to read the code, e.g.
WDD-D-48035-3011?

WDD	D	48	035	3011
Type	Ceramic coating SQ	Diameter 4.8mm	Length 35mm	RAL 3011

Standard RAL colour chart

Ral No.	Colour	Ral No.	Colour
3005	Wine red	7024	Graphite grey
3009	Oxide red	8004	Copper brown
3011	Brown red	8017	Chocolate brown
5005	Signal blue	8019	Grey brown
5010	Gentian blue	9003	Signal white
6005	Moss green	9005	Jet black
6020	Chrome green	9006	White aluminium
7016	Anthracite grey	9010	Pure white

Note: The colours in the catalogue are for reference only and may slightly differ from the original RAL colours.

Characteristic pull-out / shear strength [kN]

Substrate	Anchorage depth h _{eff} [mm]	Steel sheet thickness [mm]					
		0.50	0.63	0.75	0.88	1.00	1.25
Timber C24	20	1.24 / 1.10	1.24 / 1.50	1.24 / 1.74	1.24 / 1.74	1.24 / 1.74	1.24 / 1.74
	30	1.73 / 1.10	1.73 / 1.50	1.73 / 1.74	1.73 / 1.74	1.73 / 1.74	1.73 / 1.74

Partial safety factor of 1.33 recommended