

WFDOC/WFD Self-drilling screw with EPDM washer for fixing steel sheets in wooden substrate



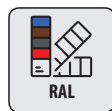
ETA-16/0443



Description

Carbon-steel or stainless 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
Spanner size (S)	-	SW 8
Head height	k [mm]	4.5
Head diameter	F [mm]	10.0
Tip length	[mm]	5.0
Washer (D)	WFDOC	steel/EPDM (Z14)
		aluminium/EPDM (A14)*
	WFD-D	aluminium/EPDM (A14)
		stainless/EPDM (S14)*
A2-WFD		aluminium/EPDM (A14)
		stainless/EPDM (S14)*
Screw material	WFDOC/WFDOC/WFD-D	heat-treated carbon steel
	A2-WFD	stainless steel A2/bimetal
Protective coating	WFDOC/WFDOC	galvanized zinc coating min. 12µm
	WFD-D/A2-WFD	ceramic coating SQ
Paint coating	RAL	powder min. 60 µm
Substrate material	timber	min. C24
Technical approval	[-]	ETA-16/0443

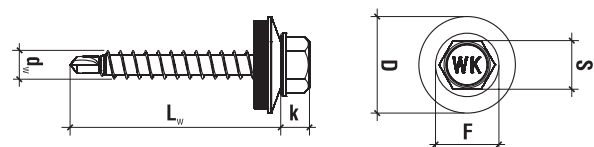
* - made to order

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
Branding of head of screw	WK feature at head of the screw facilitates the identification of our company as the producer and easy recognition of the product
Anti-corrosion coating - electro-galvanized (WFDOC/WFD)	Thickness of zinc coating min. 12 µm, guarantee of quality and high level of anti-corrosion protection
Anti-corrosion coating - ceramic coating (WFD-D)	Very high level of anti-corrosion protection (several times higher than the traditional galvanization)
A2 stainless steel screws (A2-WFD)	Highest level of anti-corrosion protection - possibility of applying screws even in category of corrosiveness of C4

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



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Ø	Code						d _w x L _w [mm]	Max. effective length t _{fix} [mm]	
	Zn BLUE	Zn BLUE RAL	SUPER QUALITY SQ CERAMIC	SUPER QUALITY SQ CERAMIC RAL	² Min. order quantity WFD-D	A2 bimetal			
4.8	WFDOC-48025	WFD-48025-RAL	WFD-D-48025	WFD-D-48025-RAL	300000	A2-WFD-48025	4.8 x 25	1,25	250
	WFDOC-48035	WFD-48035-RAL	WFD-D-48035	WFD-D-48035-RAL	400000	A2-WFD-48035	4.8 x 35	5	250
	WFDOC-48055	WFD-48055-RAL	WFD-D-48055	WFD-D-48055-RAL	300000	A2-WFD-48055	4.8 x 55	25	200
	WFDOC-48060	WFD-48060-RAL	WFD-D-48060	WFD-D-48060-RAL	300000	A2-WFD-48060	4.8 x 60	35	200
	WFDOC-48070	WFD-48070-RAL	WFD-D-48070	WFD-D-48070-RAL	300000	A2-WFD-48070	4.8 x 70	45	200
	WFDOC-48080	WFD-48080-RAL	WFD-D-48080	WFD-D-48080-RAL	300000	A2-WFD-48080	4.8 x 80	55	100
	WFDOC-48100	WFD-48100-RAL	WFD-D-48100	WFD-D-48100-RAL	300000	A2-WFD-48100	4.8 x 100	75	100
	standard / made to order ¹		made to order ²			made to order ³			

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 - shown in table

³ Minimum order quantity per size - 108000pcs

How to read the code, e.g. WFDOC-48035?

WFDOC	48	035
Type	Diameter 4.8mm	Length 35mm

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

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

Standard RAL colour chart

	Ral No.	Colour
	3005	Wine red
	3009	Oxide red
	3011	Brown red
	5005	Signal blue
	5010	Gentian blue
	6005	Moss green
	6020	Chrome green
	7016	Anthracite grey

	Ral No.	Colour
	7024	Graphite grey
	8004	Copper brown
	8017	Chocolate brown
	8019	Grey brown
	9003	Signal white
	9005	Jet black
	9006	White aluminium
	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