

SCREWS AND FASTENERS FOR WOODEN STRUCTURES FASTENING OF ROOFING SYSTEMS - PRODUCTION PROGRAMME

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



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
		steel/EPDM (Z14)
	WFD/WFDOC	aluminium/EPDM (A14)*
Washer (D)		aluminium/EPDM (A14)
	WFD-D	stainless/EPDM (S14)*
	A2-WFD	aluminium/EPDM (A14)
	AZ-WFD	stainless/EPDM (S14)*
Screw material	WFD/WFDOC/ WFD-D	heat-treated carbon steel
	A2-WFD	stainless steel A2/bimetal
Drata stive contine	WFD/WFDOC	galvanized zinc coating min. 12µm
Protective coating	WFD-D/A2-WFD	ceramic coating SQ
Paint coating	RAL	powder min. 60 µm
Substrate material	timber	min. C24
Technical approval	[-]	ETA-16/0443

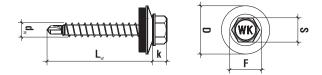


Features and advantages

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
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



* - made to order



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

	Code							Max.	
	Zn				² Min. order quantity WFD-D	A2	d x L [mm]	effective length t _{fix} [mm]	
a1 0	WFD0C-48025	WFD-48025-RAL	WFD-D-48025	WFD-D-48025-RAL	300000	A2-WFD-48025	4.8 x 25	1,25	250
ø4.8	WFDOC-48035	WFD-48035-RAL	WFD-D-48035	WFD-D-48035-RAL	400000	A2-WFD-48035	4.8 x 35	5	250
	WFD0C-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
	WFD0C-48070	WFD-48070-RAL	WFD-D-48070	WFD-D-48070-RAL	300000	A2-WFD-48070	4.8 x 70	45	200
	WFD0C-48080	WFD-48080-RAL	WFD-D-48080	WFD-D-48080-RAL	300000	A2-WFD-48080	4.8 x 80	55	100
	WFD0C-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
Туре	Diameter 4.8mm	Length 35mm

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

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

Standard RAL colour chart

Ral No.	Colour	Ral No.	Co
3005	Wine red	7024	Graph
3009	Oxide red	8004	Сорре
3011	Brown red	8017	Chocola
5005	Signal blue	8019	Grey
5010	Gentian blue	9003	Signal
6005	Moss green	9005	Jet b
6020	Chrome green	9006	White al
7016	Anthracite grey	9010	Pure

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	Steel sheet thickness [mm]					
	depth h _{eff} [mm]	0.50	0.63	0.75	0.88	1.00	1.25
Timber (24	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
Timber C24	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