

WFOC / WF Self-drilling screw with EPDM washer for fixing steel sheets in steel construction



ETA-16/0443

Description

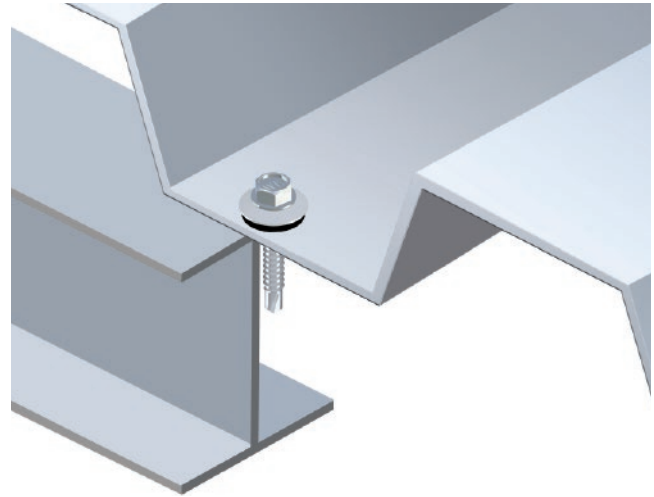
Carbon-steel or stainless steel self-drilling screw with EPDM washer for fixing sheets in steel construction.

Protective coating / Material



Technical parameters

Screw diameter	d_w [mm]	4.8	5.5	6.3	
Drilling capacity	t_{max} [mm]	3.0	5.0	7.0	
Spanner size (S)	-	SW 8	SW 8	SW 10	
Head height	k [mm]	4.5	4.9	5.4	
Head diameter	F [mm]	10.0	10.5	12.5	
Tip length	[mm]	8.0	9.0	11	
Washer (D)**	WF-D	WF/WFOC	Z14	Z16	Z19
		A2-WF	S14*	S16*	S19*
		A2-WF	S14	S16	-
Screw material	WF/WFOC/WF-D	heat-treated carbon steel			
	A2-WF	stainless steel A2/bimetal			
Protective coating	WF/WFOC	galvanized zinc coating min. 12µm			
	WF-D/A2-WF	ceramic coating SQ			
Paint coating	RAL	powder min. 60 µm			
Substrate material	WF/WFOC/WF-D	steel min. S280GD			
	A2-WF	steel/aluminium min. S280GD/AW-6060			
Technical approval	[-]	ETA-16/0443			

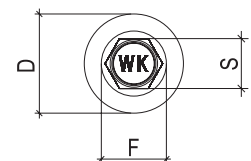
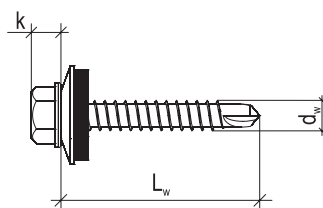


Features and advantages

Self-drilling tip	Ability of drilling plates of thickness up to 7 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 steel sheet, 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 (WFOC / WF)	Thickness of zinc coating min. 12 µm, guarantee of quality and high level of anti-corrosion protection
Anti-corrosion coating - ceramic coating (WF-D)	Very high level of anti-corrosion protection (several times higher than the traditional galvanization)
A2 stainless steel screws (A2-WF)	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	5.5	6.3
Min. construction thickness	h_{min} [mm]	0.75	1.0	3.0
Fastener anchorage depth	h_{eff} [mm]	push-through installation		
Min. spacing	S_{min} [mm]	50		
Min. edge distance	C_{min} [mm]	25		



* - made to order ** Washers: Z-steel/EPDM, A-aluminum/EPDM, S-stainless steel/EPDM

WFOC / WF Self-drilling screw with EPDM washer for fixing steel sheets in steel construction

	Code						d _w x L _w [mm] ^w	Max. effective length t _{fix} [mm]	Drilling capacity t _{max} [mm]	
										
ø4.8	WFOC-48016	-	WF-D-48016	-	300000	A2-WF-48016	4.8x16	1	3	250
	WFOC-48019	WF-48019-RAL	WF-D-48019	WF-D-48019-RAL	210000	A2-WF-48019	4.8x19	4	3	250
	WFOC-48025	WF-48025-RAL	WF-D-48025	WF-D-48025-RAL	210000	A2-WF-48025	4.8x25	10	3	250
	WFOC-48035	WF-48035-RAL	WF-D-48035	WF-D-48035-RAL	210000	A2-WF-48035	4.8x35	17	3	250
ø5.5	WFOC-55019	WF-55019-RAL	WF-D-55019	WF-D-55019-RAL	210000	A2-WF-55019	5.5x19	1	5	250
	WFOC-55025	WF-55025-RAL	WF-D-55025	WF-D-55025-RAL	210000	A2-WF-55025	5.5x25	7	5	250
	WFOC-55032	WF-55032-RAL	WF-D-55032	WF-D-55032-RAL	210000	A2-WF-55032	5.5x32	14	5	250
	WFOC-55038	WF-55038-RAL	WF-D-55038	WF-D-55038-RAL	210000	A2-WF-55038	5.5x38	20	5	250
	WFOC-55045	WF-55045-RAL	WF-D-55045	WF-D-55045-RAL	150000	A2-WF-55045	5.5x45	27	5	250
	WFOC-55050	WF-55050-RAL	WF-D-55050	WF-D-55050-RAL	150000	A2-WF-55050	5.5x50	32	5	100
	WFOC-55060	WF-55060-RAL	WF-D-55060	WF-D-55060-RAL	100000	-	5.5x60	42	5	100
	WFOC-55075	WF-55075-RAL	WF-D-55075	WF-D-55075-RAL	100000	-	5.5x75	57	5	100
ø6.3	WFOC-63019	WF-63019-RAL	WF-D-63019	WF-D-63019-RAL	80000	-	6.3x19	1	7	200
	WFOC-63025	WF-63025-RAL	WF-D-63025	WF-D-63025-RAL	80000	-	6.3x25	7	7	200
	WFOC-63032	WF-63032-RAL	WF-D-63032	WF-D-63032-RAL	80000	-	6.3x32	14	7	200
	WFOC-63038	WF-63038-RAL	WF-D-63038	WF-D-63038-RAL	80000	-	6.3x38	20	7	200
	made to order ¹		made to order ²			made to order				

¹ Minimum order quantity per size & colour - 21000pcs

² Minimum order quantity per size & colour - shown in table

How to read the code, e.g. WFOC-55038?

WFOC	55	038
Type	Diameter 5.5mm	Length 38mm

How to read the code, e.g. WF-D-55038-3011?

WF	D	55	038	3011
Type	Ceramic coating SQ	Diameter 5.5mm	Length 38mm	RAL 3011

Characteristic pull-out / shear strength [kN]

WFOC-4.8 / WF-4.8 / WF-D-4.8 / A2-WF-4.8

Construction thickness [mm]	Steel sheet thickness [mm]						
	0.50	0.63	0.75	0.88	1.00	1.25	1.50
0.75	0.78/1.32	0.78/1.59	0.78/2.38	0.78/2.38	0.78/2.38	0.78/2.38	0.78/2.38
0.88	0.97/1.32	0.97/1.59	0.97/2.38	0.97/3.02	0.97/3.02	0.97/3.02	0.97/3.02
1.00	1.18/1.32	1.18/1.59	1.18/2.38	1.18/3.02	1.18/3.03	1.18/3.03	1.18/3.03
1.25	1.69/1.32	1.69/1.59	1.69/2.38	1.69/3.02	1.69/3.03	1.69/3.10	1.69/3.10
1.50	2.04/1.32	2.04/1.59	2.04/2.38	2.04/3.02	2.04/3.03	2.04/3.10	2.04/3.15

WFOC-5.5 / WF-5.5 / WF-D-5.5 / A2-WF-5.5

Construction thickness [mm]	Steel sheet thickness [mm]					
	0.50	0.63	0.75	0.88	1.00	1.25÷2.00
1.00	1.10/1.53	1.10/1.88	1.10/2.52	1.10/2.87	1.10/2.90	1.10/4.09
1.25	1.86/1.53	1.86/1.88	1.86/2.52	1.86/2.87	1.86/2.90	1.86/4.09
1.50	1.97/1.53	1.97/1.88	1.97/2.52	1.97/2.87	1.97/2.90	1.97/4.09
2.00÷3.00	2.99/1.53	2.99/1.88	2.99/2.52	2.99/2.87	2.99/2.90	2.99/4.09

WFOC-6.3 / WF-6.3 / WF-D-6.3

Construction thickness [mm]	Steel sheet thickness [mm]					
	0.50	0.63	0.75	0.88	1.00	1.25÷2.00
3.0÷5.0	3.93/1.75	4.69/2.48	6.87/3.04	7.23/3.59	7.23/3.62	7.23/4.57

Partial safety factor of 1.33 recommended