

WSW-6 Self-drilling screw with EPDM washer for fixing sandwich panels in steel construction - 6mm



ETA-16/0444



Description

Self-drilling screw with EPDM washer for fixing sandwich panels in steel construction of 2-6mm in thickness

Protective coating / Material



Technical parameters

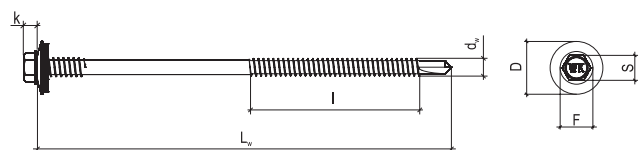
Screw diameter	d_w [mm]	5.5
Drilling capacity	t_{max} [mm]	6.0
Spanner size (S)	-	SW 8
Head height	k [mm]	5.4
Head diameter	F [mm]	10.5
Tip length	[mm]	12.0
Washer (D)**	[-]	Z16/Z19; A16/A19; S16/S19*
Screw material	[-]	heat-treated carbon steel
Protective coating	[-]	ceramic coating SQ
Paint coating	RAL	powder min. 60 μ m
Substrate material	steel	min. S235JR
Technical approval	[-]	ETA-16/0444

Features and advantages

Self-drilling tip	Ability of drilling plates of thickness up to 6 mm
EPDM washer	It seals and secures the connection from corrosion
Possibility of painting according to RAL Palette	Permanent colour adjusted to laminated panels, 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
Length up to 275 mm	Possibility of fixing laminated panels to thickness of 250 mm
Threading under head of screw	Threading of increased diameter (6.3mm) ensures the correct distribution of EPDM washers and fixing of tiles without damaging the surface
Anti-corrosion coating - ceramic coating	Very high level of anti-corrosion protection (several times higher than the traditional galvanization)

Installation parameters

Screw diameter	d_w [mm]	5.5
Min. construction thickness	h_{min} [mm]	2.0
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

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	Code		$d_w \times L_w$ [mm]	Panel thickness [mm]	Steel washer diameter D [mm]	Thread length l [mm]	Drilling capacity t_{max} [mm]	
ø5.5	WSW-6-55085-Z16	WSW-6-55085-Z16-RAL	5.5x85	30-60	16	50	6	100
	WSW-6-55105-Z16	WSW-6-55105-Z16-RAL	5.5x105	50-80	16	50	6	100
	WSW-6-55125-Z16	WSW-6-55125-Z16-RAL	5.5x125	50-100	16	70	6	100
	WSW-6-55150-Z16	WSW-6-55150-Z16-RAL	5.5x150	75-125	16	70	6	100
	WSW-6-55175-Z16	WSW-6-55175-Z16-RAL	5.5x175	100-150	16	70	6	100
	WSW-6-55200-Z16	WSW-6-55200-Z16-RAL	5.5x200	125-175	16	70	6	100
	WSW-6-55225-Z16	WSW-6-55225-Z16-RAL	5.5x225	150-200	16	70	6	100
	WSW-6-55275-Z16	WSW-6-55275-Z16-RAL	5.5x275	200-250	16	70	6	100
	made to order							

	Code		$d_w \times L_w$ [mm]	Panel thickness [mm]	Aluminum washer diameter D [mm]	Thread length l [mm]	Drilling capacity t_{max} [mm]	
ø5.5	WSW-6-55085-A19	WSW-6-55085-A19-RAL	5.5x85	30-60	19	50	6	100
	WSW-6-55105-A19	WSW-6-55105-A19-RAL	5.5x105	50-80	19	50	6	100
	WSW-6-55125-A19	WSW-6-55125-A19-RAL	5.5x125	50-100	19	70	6	100
	WSW-6-55150-A19	WSW-6-55150-A19-RAL	5.5x150	75-125	19	70	6	100
	WSW-6-55175-A19	WSW-6-55175-A19-RAL	5.5x175	100-150	19	70	6	100
	WSW-6-55200-A19	WSW-6-55200-A19-RAL	5.5x200	125-175	19	70	6	100
	WSW-6-55225-A19	WSW-6-55225-A19-RAL	5.5x225	150-200	19	70	6	100
	WSW-6-55275-A19	WSW-6-55275-A19-RAL	5.5x275	200-250	19	70	6	100
	made to order							

How to read the code, e.g. WSW-6-55105-Z16-3011?

WSW	6	55	105	Z16	3011
Type	Drilling capacity 6mm	Diameter 5.5mm	Length 105mm	Steel washer 16mm	RAL 3011

How to read the code, e.g. WSW-6-55105-A19-3011?

WSW	6	55	105	A19	3011
Type	Drilling capacity 6mm	Diameter 5.5mm	Length 105mm	Aluminum washer 19mm	RAL 3011

Characteristic pull-out / shear strength [kN]

Construction thickness [mm]	Thickness of panel clad steel [mm]					
	0.40	0.50	0.63	0.75	0.88	1.00
2.00	1.64/0.83	2.37/1.31	2.37/1.63	2.37/1.93	2.37/1.93	2.37/1.93
2.50	1.64/0.83	2.37/1.31	2.37/1.63	2.37/1.93	2.37/1.93	2.37/1.93
3.00	1.64/0.83	2.37/1.31	2.37/1.63	2.37/1.93	2.37/1.93	2.37/1.93
4.00	1.64/0.83	3.02/1.31	3.91/1.63	4.17/1.93	4.17/1.93	4.17/1.93
5.00	1.64/0.83	3.02/1.31	3.91/1.63	4.17/1.93	4.17/1.93	4.17/1.93

Partial safety factor of 1.33 recommended. Values in table for WSW-6 screw with 16mm washer.