

WB6P Self-tapping screw with EPDM washer for fixing sandwich panels to concrete and timber



ETA-16/0444



AT-15-8978/2012



Description

Carbon-steel self-tapping screw with EPDM washer for fixing sandwich panels in concrete and timber

Protective coating / Material



Technical parameters

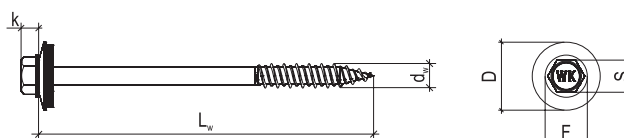
Screw diameter	d_w [mm]	6.3
Drilling capacity	t_{max} [mm]	-
Spanner size (S)	-	SW 8
Head height	k [mm]	5.4
Head diameter	F [mm]	10.5
Tip length	[mm]	-
Washer	WB6P	steel/EPDM (Z19)
	WB6P-D	aluminium/EPDM (A19) stainless/EPDM (S19)*
Screw material	WB6P/WB6P-D	heat-treated carbon steel
Protective coating	WB6P	galvanized zinc coating min. 12µm
	WB6P-D	ceramic coating SQ
Paint coating	RAL	powder min. 60 µm
Substrate material	concrete, timber	min. C20/25; C24
Technical approval	[-]	ETA-16/0444 (timber)
		AT-15-8978/2012 (concrete)

Features and advantages








Self-threading tip	Facilitates direct fixing into wooden and concrete flooring (in the case of concrete, it is necessary to make a preliminary hole of 5 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
Anti-corrosion coating - electro-galvanized (WB6P)	Thickness of zinc coating min. 12 µm, guarantee of quality and high level of anti-corrosion protection
Anti-corrosion coating - ceramic coating (WB6P-D)	Very high level of anti-corrosion protection (several times higher than the traditional galvanization)

Installation parameters

Screw diameter	d_w [mm]	6.3
Pre-drilled hole diameter	d_o [mm]	5.0
Min. pre-drilled hole depth	h_o [mm]	40
Min. substrate thickness	h_{min} [mm]	50
Anchorage depth	h_{eff} [mm]	concrete min. 30 mm
		timber min. 30 mm
Min. spacing	s_{min} [mm]	50
Min. edge distance	c_{min} [mm]	25



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Ø6.3	Code						d _w x L _w [mm]	Max. effective length t _{fix} [mm]	Pre-drilled hole diameter d ₀ [mm]	
										
	WB6P-63085	WB6P-63085-RAL	WB6P-D-63085	WB6P-D-63085-RAL	6.3x85	40-50	5	200		
	WB6P-63095	WB6P-63095-RAL	WB6P-D-63095	WB6P-D-63095-RAL	6.3x95	50-60	5	100		
	WB6P-63115	WB6P-63115-RAL	WB6P-D-63115	WB6P-D-63115-RAL	6.3x115	70-80	5	100		
	WB6P-63135	WB6P-63135-RAL	WB6P-D-63135	WB6P-D-63135-RAL	6.3x135	90-100	5	100		
	WB6P-63155	WB6P-63155-RAL	WB6P-D-63155	WB6P-D-63155-RAL	6.3x155	110-120	5	100		
	WB6P-63185	WB6P-63185-RAL	WB6P-D-63185	WB6P-D-63185-RAL	6.3x185	140-150	5	100		
	WB6P-63205	WB6P-63205-RAL	WB6P-D-63205	WB6P-D-63205-RAL	6.3x205	150-170	5	100		
	made to order			made to order						

How to read the code, e.g. WB6P-D-63085-3011?

WB6P	D	63	085	3011
Type	Ceramic coating SQ	Diameter 6.3mm	Length 85mm	RAL 3011

Characteristic pull-out / shear strength [kN]

Anchoring depth [mm]	Thickness of panel clad steel [mm]					
	0.40	0.50	0.63	0.75	0.88	1.00
Timber C24 ≥ 30mm	1.83/0.87	3.13/1.35	3.13/1.70	3.13/2.10	3.13/2.10	3.13/2.10
Concrete C20/25 ≥ 30mm	1.76/0.87	1.76/1.35	1.76/1.70	1.76/2.10	1.76/2.10	1.76/2.10

Partial safety factor of 1.33 recommended