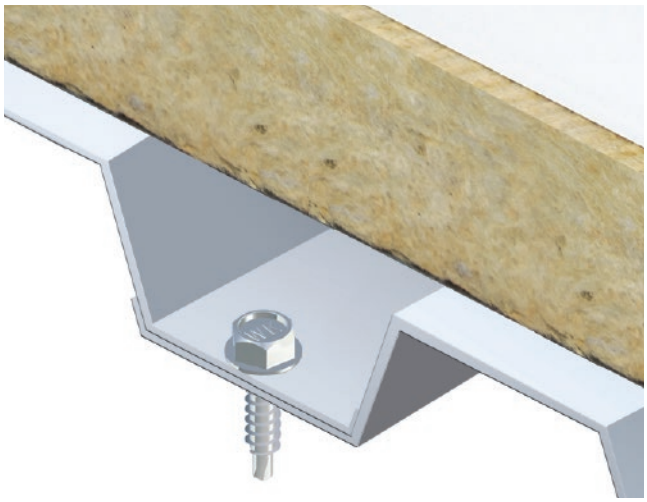
WSB Self-drilling screw for making lap joints in steel sheets

POLISH PRODUCER

CE ETA-16/0443



Description

Carbon-steel self-drilling screw for making lap joints in steel sheets

Protective coating / Material

Zn BLUE

SUPER QUALITY SQ CERAMIC *

Technical parameters

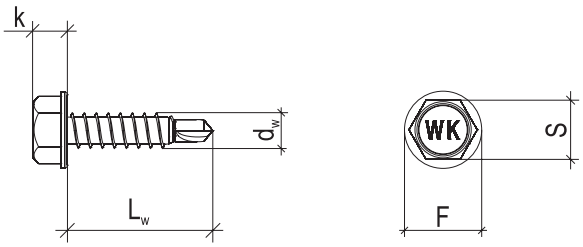
Screw diameter	d_w [mm]	4.8
Drilling capacity	t_{max} [mm]	2x1.25
Spanner size (S)	-	SW 8
Head height	k [mm]	4.5
Head diameter	F [mm]	10.0
Tip length	[mm]	5.0
Screw material	WSB/WSB-D	heat-treated carbon steel
Protective coating	WSB	galvanized zinc coating min. 12µm
	WSB-D	ceramic coating SQ
Substrate material	steel	min. S280GD
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
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 (WSB)	Thickness of zinc coating min. 12 µm, guarantee of quality and high level of anti-corrosion protection
Anti-corrosion coating - ceramic coating (WSB-D)	Very high level of anti-corrosion protection (several times higher than the traditional galvanization)

Installation parameters

Screw diameter	d_w [mm]	4.8
Min. substrate thickness	h_{min} [mm]	0.5
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

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	Code		d_w x L_w [mm]	Max. effective length t_{fix} [mm]	
	Zn BLUE	SUPER QUALITY SQ CERAMIC			
ø4.8	WSB-48016	WSB-D-48016	**4.8x16**	1.5	500
	WSB-48019	WSB-D-48019	**4.8x19**	2.5	500
	WSB-48025	WSB-D-48025	**4.8x25**	2.5	500
		made to order [1]			

[1] Minimum order quantity per size - 300000pcs

How to read the code, e.g. WSB-D-48016?

WSB	D	48	016
Type	Ceramic coating SQ	Diameter 4.8mm	Length 16mm

Characteristic pull-out / shear strength [kN]

Substrate thickness [mm]	Steel sheet thickness [mm]					
	0.50	**0.63**	**0.75**	**0.88**	**1.00**	**1.25**
0.50	0.55/1.10	0.55/1.10	0.55/1.10	0.55/1.10	0.55/1.10	0.55/1.10
0.63	0.55/1.10	0.82/1.50	0.82/1.50	0.82/1.50	0.82/1.50	0.82/1.50
0.75	0.55/1.10	0.82/1.50	0.96/1.74	0.96/1.74	0.96/1.74	0.96/1.74
0.88	0.55/1.10	0.82/1.50	0.96/1.74	0.98/1.74	0.98/1.74	0.98/1.74
1.00	0.55/1.10	0.82/1.50	0.96/1.74	0.98/1.74	0.98/1.74	0.98/1.74
1.25	0.55/1.10	0.82/1.50	0.96/1.74	0.98/1.74	0.98/1.74	0.98/1.74

Partial safety factor of 1.33 recommended