

# WSBP Self-drilling screw with EPDM washer for making lap joints in steel sheets



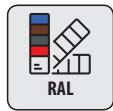
ETA-16/0443



## Description

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

## Protective coating / Material



## Technical parameters

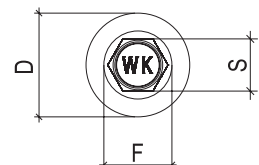
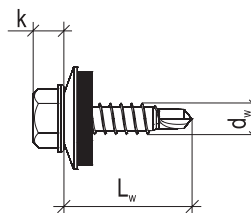
Screw diameter	$d_w$ [mm]	4.8
Drilling capacity	$t_{max}$ [mm]	2x1.25
Spanner size (S)	-	SW 8
Head height	k [mm]	4.5
Head diameter	F [mm]	10.0
Tip length	[mm]	5.0
Washer (D)	WSBP	steel/EPDM (Z14)
		aluminium/EPDM (A14)*
	WSBP-D	aluminium/EPDM (A14)
		stainless/EPDM (S14)*
Screw material	WSBP/WSBP-D	heat-treated carbon steel
	WSBP	galvanized zinc coating min. 12µm
Protective coating	WSBP-D	ceramic coating SQ
Paint coating	RAL	powder min. 60 µm
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
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 (WSBP)	Thickness of zinc coating min. 12 µm, guarantee of quality and high level of anti-corrosion protection
Anti-corrosion coating - ceramic coating (WSBP-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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Ø4.8	Code				d <sub>w</sub> x L <sub>w</sub> [mm]	Max. effective length t <sub>fix</sub> [mm]	
	WSBP-48019	WSBP-48019-RAL	WSBP-D-48019	WSBP-D-48019-RAL	4.8x19	1.5	250
	WSBP-48025	WSBP-48025-RAL	WSBP-D-48025	WSBP-D-48025-RAL	4.8x25	2.5	250
	standard / made to order <sup>1</sup>		made to order <sup>2</sup>	made to order <sup>2</sup>			

<sup>1</sup> RAL colours other than our permanent offer (standard RAL colour chart) are available for orders of minimum 210000 pcs.

<sup>2</sup> Minimum order quantity per size & colour - 300000pcs

How to read the code,  
e.g. WSBP-D-48019?

<b>WSBP</b>	<b>D</b>	<b>48</b>	<b>019</b>
Type	Ceramic coating SQ	Diameter 4.8mm	Length 19mm

### Standard RAL colour chart

	Ral No.	Colour
	3005	Wine red
	3009	Oxide red
	3011	Brown red
	5005	Signal blue
	5010	Gentian blue
	6005	Moss green
	6020	Chrome green
	7016	Anthracite grey

	Ral No.	Colour
	7024	Graphite grey
	8004	Copper brown
	8017	Chocolate brown
	8019	Grey brown
	9003	Signal white
	9005	Jet black
	9006	White aluminium
	9010	Pure white

RAL colours other than our permanent offer are available for orders of minimum 250 000 pieces.

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 thickness [mm]	Steel sheet thickness [mm]					
	0.50	0.63	0.75	0.88	1.00	1.25
0.50	0.64/1.10	0.64/1.10	0.64/1.10	0.64/1.10	0.64/1.10	0.64/1.10
0.63	0.64/1.10	0.82/1.50	0.82/1.50	0.82/1.50	0.82/1.50	0.82/1.50
0.75	0.64/1.10	0.82/1.50	0.96/1.74	0.96/1.74	0.96/1.74	0.96/1.74
0.88	0.64/1.10	0.82/1.50	0.96/1.74	1.28/1.74	1.28/1.74	1.28/1.74
1.00	0.64/1.10	0.82/1.50	0.96/1.74	1.28/1.74	1.55/1.74	1.55/1.74
1.25	0.64/1.10	0.82/1.50	0.96/1.74	1.28/1.74	1.55/1.74	2.21/1.74

Partial safety factor of 1.33 recommended