WSDSK / WSDST Self-drilling screw for fixing timber in steel construction
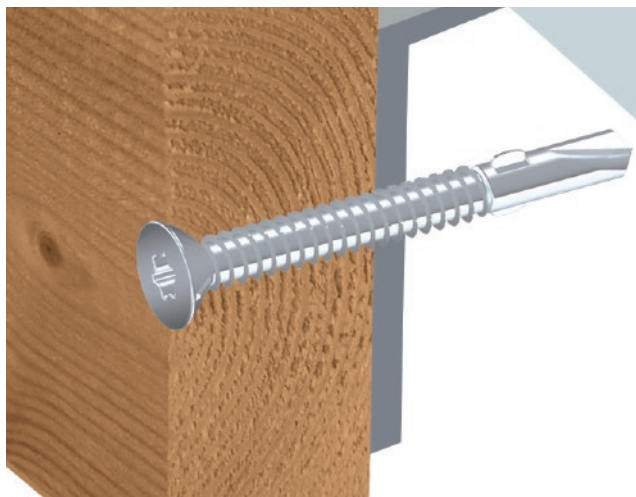
WSDSK

POLISH PRODUCER

AT-15-7179/2013

WSDST

Description

Carbon-steel self-drilling screw for fixing timber elements in steel. WSDSK and WSDST screw are intended for direct timber-to-steel fastening.
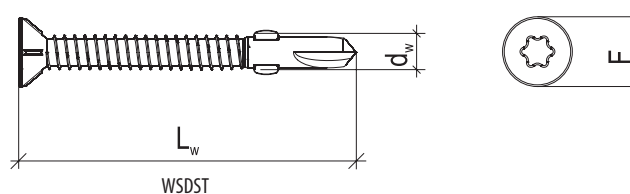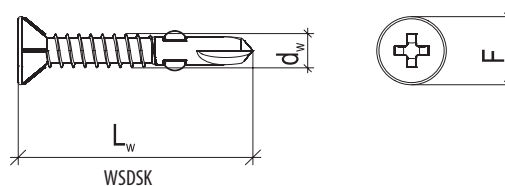
Protective coating / Material

Zn BLUE

Features and advantages

Self-drilling tip	Possibility of drilling both the wooden and metal elements
Steel WINGS	They expand the hole in the wooden element rendering damage impossible during the process of drilling the screw through steel flooring
PH-2 socket (WSDSK)	Ease of fixing, the most common socket of PH type
TX-30 socket (WSDST)	It guarantees the optimal transfer of the torque
Countersunk head	Facilitates the facing of a screw at level of fixed wooden element
Anti-corrosion coating - electro-galvanized	Thickness of zinc coating min. 12 μm, guarantee of quality and high level of anti-corrosion protection

Technical parameters

		WSDSK-4.8	WSDSK-5.5	WSDST-6.3
Screw diameter	d_w [mm]	4.8	5.5	6.3
Drilling capacity	t_{max} [mm]	3.0	5.0	7.0
Drive type	-	PH-2	PH-3	TX-30
Head height	k [mm]	3.0	4.8	5.2
Head diameter	F [mm]	9.5	10.5	12.0
Tip length	[mm]	15.0	20.0	22.0
Screw material	[-]	heat-treated carbon steel		
Protective coating	[-]	galvanized zinc coating min. 12μm		
Substrate material	steel	min. S280GD		
Technical approval	[-]	AT-15-7179/2013		

Installation parameters

		WSDSK-4.8	WSDSK-5.5	WSDST-6.3
Screw diameter	d_w [mm]	4.8	5.5	6.3
Min. substrate thickness	h_{min} [mm]	0.75	0.75	1.0
Anchorage depth	h_{eff} [mm]	push-through installation		
Min. spacing	s_{min} [mm]	50		
Min. edge distance	c_{min} [mm]	25		

WSDSK

WSDST

WSDSK / WSDST Self-drilling screw for fixing timber in steel construction

Code		d_w x L_w [mm]	Max. effective length t_{fix} [mm]	Drilling capacity t_{max} [mm]	Drive type	
ø4.8	WSDSK-48032	4.8x32	14	3	PH-2	500
	WSDSK-48038	4.8x38	20	3	PH-2	250
	WSDSK-48045	4.8x45	27	3	PH-2	250
	WSDSK-48050	4.8x50	32	3	PH-2	250
ø5.5	WSDSK-55038	5.5x38	13	5	PH-3	250
	WSDSK-55045	5.5x45	20	5	PH-3	250
	WSDSK-55050	5.5x50	25	5	PH-3	250
ø6.3	WSDST-63050	6.3x50	21	7	TX-30	250
	WSDST-63060	6.3x60	31	7	TX-30	200
	WSDST-63070	6.3x70	41	7	TX-30	200

How to read the code, e.g. WSDST-63050?

WSDS | **T** | **63** | **050**
Type | Drive type TX | Diameter 6.3mm | Length 50mm

Design pull-out strength [kN]

Screw type and diameter	Construction thickness [mm]						
	0.75	0.88	1.00	1.25	1.50	2.00	3.00
WSDSK-4.8	0.13	0.19	0.28	0.38	0.40	0.96	-
WSDSK-5.5	0.17	0.33	0.44	0.89	1.80	2.50	2.50
WSDST-6.3	-	-	0.52	0.92	1.93	2.77	4.60