

## PRODUCT DATA SHEET – WKSS

### Section 1. PRODUCT DESCRIPTION

#### DISTANCE SCREW, TX – WKSS

Distance screw WKSS is made of carbon steel covered with a protective layer of white galvanic zinc. Screws are primarily used for levelling construction battens, wall structures under the facade and levelling the surface of suspended ceilings and floors. The screws have a countersunk head with a TX socket.



#### Features and advantages of screws:

- countersunk head – ensures flush fitting of the screw in the installed member
- TX drive – guarantees optimum torque transfer as the screw advances
- cutting ribs – ensures aesthetic finished result
- support thread – enables levelling and plumbing of the fixed element
- cutting notches – cuts the fibers of the wood structure while screwing in
- double thread – additional threads on the tip make it easier to start screwing with less pressure
- high torque – enables screws to be screwed in without pre-drilling in hard types of wood
- wax coating – reduced torque, faster and easier installation

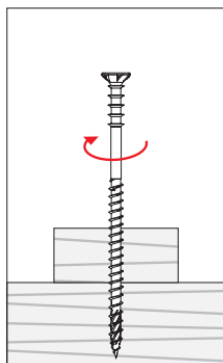


Screws hold European Technical Assessment: ETA-18/0817

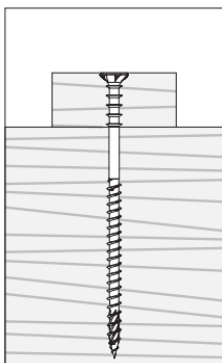
### Section 2. METHOD OF INSTALLATION

1. Original screws delivered by the manufacturer can be used only
2. Before installation select adequate length of screws depending on thickness of elements to be fastened and minimum anchorage depth
3. The fastened wooden elements should be defect-free (no knots, cracks, colourations, rots, structure and shape defects, mechanical damages) as any defects reduce their strength
4. Screws should be installed using screw gun and bit suitable for TX drive
5. Screws should be driven directly in wooden substrate without prior drilling

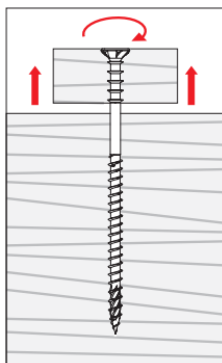
1. Place a screw in a structure.



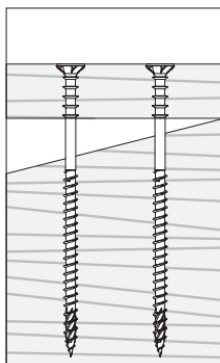
2. Tighten the screw completely.



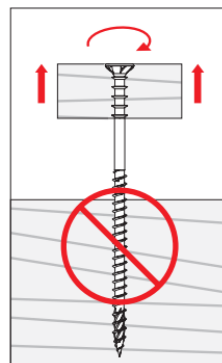
3. Loosen the screw to obtain a gap.



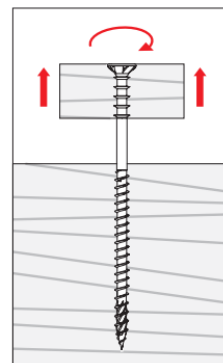
4. Adjust the other screws.



EXAMPLE OF INCORRECT INSTALLATION

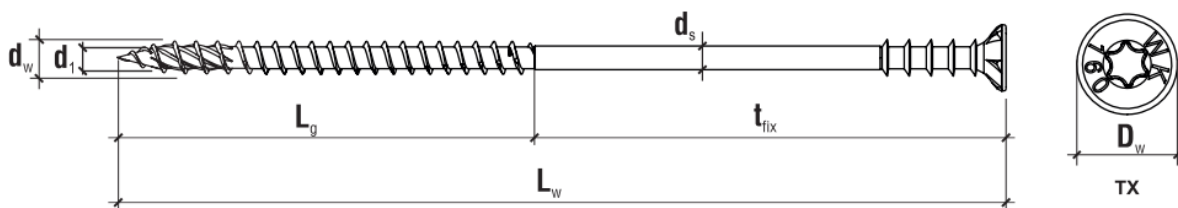


EXAMPLE OF CORRECT INSTALLATION



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**Section 3. TECHNICAL DATA**



TECHNICAL PARAMETERS		
Parameter	Unit	Value
Thread outer diameter	$d_w$ [mm]	6,0
Thread inner diameter	$d_1$ [mm]	3,9
Thread inner diameter	$d_s$ [mm]	4,3
Head diameter	$D_w$ [mm]	10,0
Length range	$L_w$ [mm]	50-160
Drive type	-	TX 30
Screw material	-	carbon steel
Corrosion protection	galvanized	$\geq 5 \mu\text{m}$
Substrate material	wood	$\geq \text{C24}$
European Technical Assessment	-	ETA-18/0817

STRENGTH PARAMETERS		
Parameter	Unit	Value
Material characteristic yield strength	$M_{y,k}$ [Nm]	10,0
Characteristic pull-out resistance	$f_{ax,k,90}$ [N/mm <sup>2</sup> ]	12,0
Characteristic resistance to head pull-through	$f_{head,k}$ [N/mm <sup>2</sup> ]	9,4
Characteristic resistance for tension	$f_{tens,k}$ [kN]	13,0
Characteristic torsional strength	$f_{tor,k}$ [Nm]	10,0

SELECTION TABLE						
Product marking	Screw diameter	Screw length	Working thread length	Usable length	Drive type	Number of pieces in a box
	$d_w$ [mm]	$L_w$ [mm]	$L_g$ [mm]	$t_{fix}$ [mm]	[-]	[pcs]
WKSS-60050-B	6,0	50	30	20	TX 30	200
WKSS-60060-B	6,0	60	35	25	TX 30	200
WKSS-60070-B	6,0	70	35	35	TX 30	200
WKSS-60080-B	6,0	80	50	30	TX 30	200
WKSS-60090-B	6,0	90	50	40	TX 30	100
WKSS-60100-B	6,0	100	50	50	TX 30	100
WKSS-60110-B	6,0	110	50	60	TX 30	100
WKSS-60120-B	6,0	120	75	45	TX 30	100
WKSS-60130-B	6,0	130	75	55	TX 30	100
WKSS-60145-B	6,0	145	75	70	TX 30	100
WKSS-60160-B	6,0	160	75	85	TX 30	100

**Section 4. REMARKS**

1. All previous versions of this Product Data Sheet shall cease to be valid
2. Data given in this Product Data Sheet is in accordance with current knowledge and published in good faith. KLIMAS Sp. z o.o. is not responsible for correctness and quality of the fixing if recommendations regarding method of use and installation are not followed.