

PRODUCT DATA SHEET – WKPC

Section 1. PRODUCT DESCRIPTION

SCREWS WITH DOUBLE THREAD FOR OVER-RAFTER INSULATION – WKPC

Screw with double thread WKPC is made of carbon steel covered with a protective layer of white galvanic zinc. Screws are primarily used for mounting over-rafter insulation to wooden substrates. The screws have a cylindrical head with a TX socket.



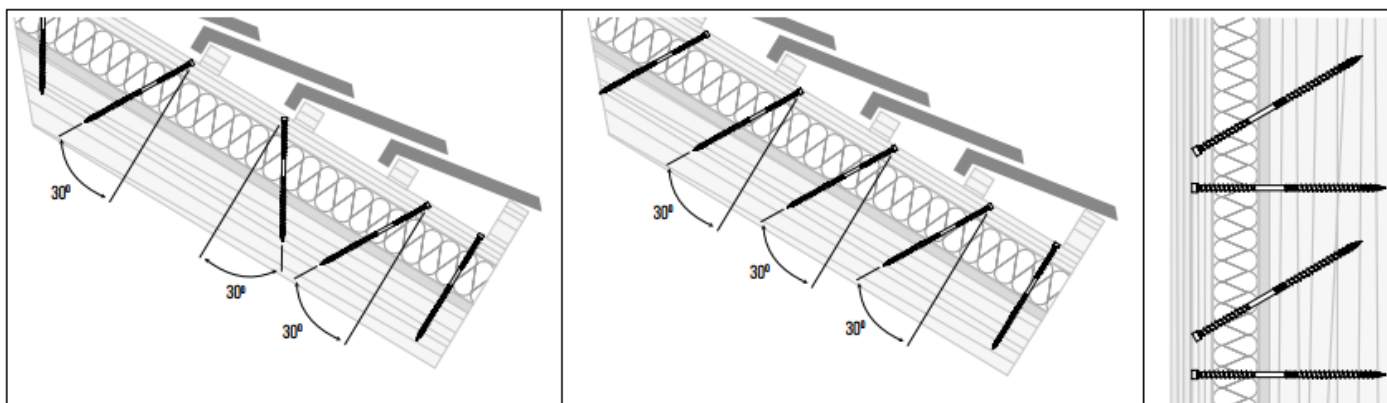
Features and advantages of screws:

- cylindrical head – ensures adequate pressure of the fixed element
- TX drive – guarantees optimum torque transfer as the screw advances
- underhead thread – enables optimal mounting of the counter-batten, transfers the loads from the counter-batten to the rafters, omitting the insulation, protects the insulation against damage
- reaming cutter - reduces the torque required for screwing in by widening the hole
- 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



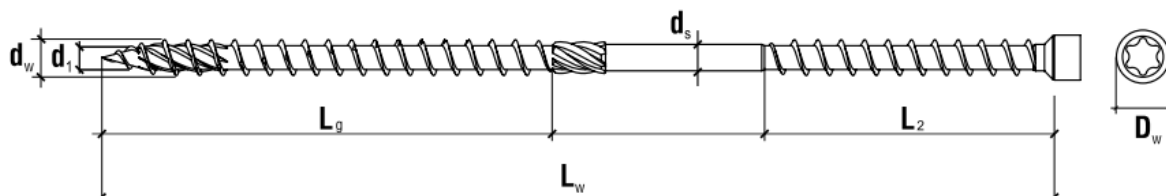
Section 2. METHOD OF INSTALLATION

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, colorations, 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



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Section 3. TECHNICAL DATA



TECHNICAL PARAMETERS		
Parameter	Unit	Value
Thread outer diameter	d_w [mm]	8,0
Thread inner diameter	d_1 [mm]	5,4
Smooth part diameter	d_s [mm]	5,8
Head diameter	D_w [mm]	10,0
Length range	L_w [mm]	165-472
Drive type	-	TX 40
Screw material	-	carbon steel
Corrosion protection	galvanized	$\geq 5 \mu\text{m}$
Substrate material	wood	$\geq \text{C24}$

STRENGTH PARAMETERS		
Parameter	Unit	Value
Material characteristic yield strength	$M_{y,k}$ [Nm]	25,0
Characteristic pull-out resistance	$f_{ax,k,90}$ [N/mm ²]	12,0
Characteristic resistance to head pull-through	$f_{head,k}$ [N/mm ²]	9,4
Characteristic resistance for tension	$f_{tens,k}$ [kN]	25,0
Characteristic torsional strength	$f_{tor,k}$ [Nm]	27,0

SELECTION TABLE							
Product marking	Screw diameter	Screw length	Working thread length	Underhead thread length	Head diameter	Drive type	Number of pieces in a box
	d_w [mm]	L_w [mm]	L_g [mm]	L_2 [mm]	D_w [mm]	[-]	[pcs]
WKPC-08165-B*	8,0	165	100	60	10	TX 40	50
WKPC-08195-B*	8,0	195	100	60	10	TX 40	50
WKPC-08225-B*	8,0	225	100	60	10	TX 40	50
WKPC-08235-B*	8,0	235	100	60	10	TX 40	50
WKPC-08255-B*	8,0	255	100	60	10	TX 40	50
WKPC-08275-B*	8,0	275	100	60	10	TX 40	50
WKPC-08302-B*	8,0	302	100	60	10	TX 40	50
WKPC-08335-B*	8,0	335	100	60	10	TX 40	50
WKPC-08365-B*	8,0	365	100	60	10	TX 40	50
WKPC-08397-B*	8,0	397	100	60	10	TX 40	50
WKPC-08435-B*	8,0	435	100	60	10	TX 40	50
WKPC-08472-B*	8,0	472	100	60	10	TX 40	50

*Product on order

Section 4. REMARKS

- All previous versions of this Product Data Sheet shall cease to be valid
- 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.