



WKPC

Screws with double thread for over-rafter insulation, TX

Diameters: $\varnothing 8$ mm

Length range: from 165 to 472 mm



Pan head screw with double thread and TX drive for installation of over-rafter insulation in timber substrates.



TX DRIVE



Zn
WHITE



EUROPEAN TECHNICAL
ASSESSMENT
ETA-18/0817

SCREW MATERIAL - Carbon steel

ANTI-CORROSION PROTECTION - Galvanized steel (white)

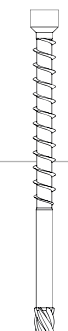
PRODUCT ADVANTAGES:



CYLINDRICAL HEAD WITH TX DRIVE - Allow quick and secure fastening, ideal for hidden insertion in the batten. TX drive guarantees optimum torque transfer.



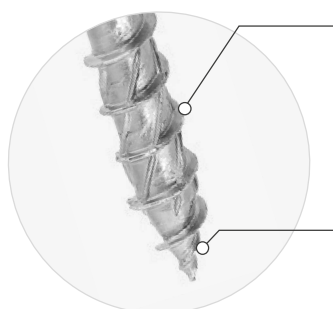
HIGH TORQUE - Allows screws to be installed without pre-drilling, even in hardwood substrates.



DOUBLE THREAD - Provides optimum load transfer from battens to rafters and allows uninterrupted fastening of insulation to prevent thermal bridges



WAX COATING - Wax coating applied during the production process significantly reduces the torque.



NEW CUTTING EDGE / SERRATED THREAD

New special design of cutting edge with added milling reduces screwing resistance by 20%. This helps to extend the life of batteries and power tools. Special cutting notches integrated on the thread cut wood fibres structure while screwing in.

DOUBLE THREAD

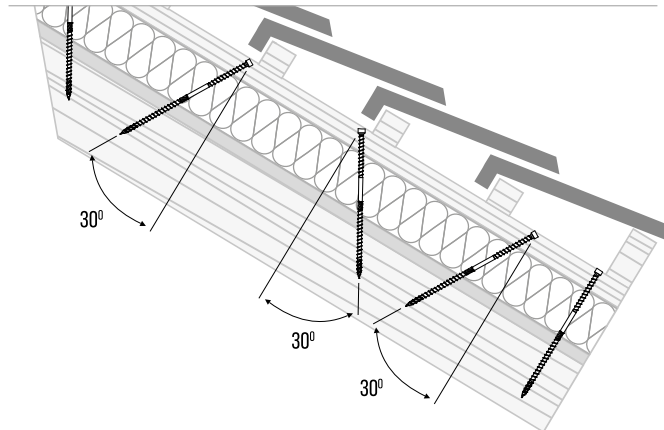
Additional recessed second thread improves remarkably the speed of timber penetration and reaction time of first grip into the wood.

EXAMPLES OF USE



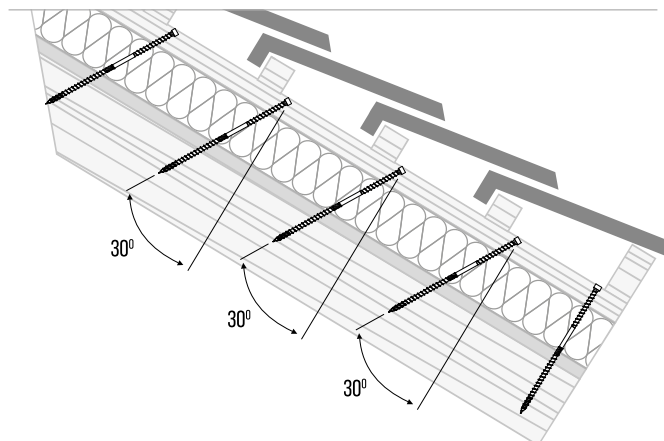
Fixing of soft over-rafter insulation

Insulation material with a low compressive strength ($\sigma(10\%) < 50 \text{ kPa}$ - EN 826)



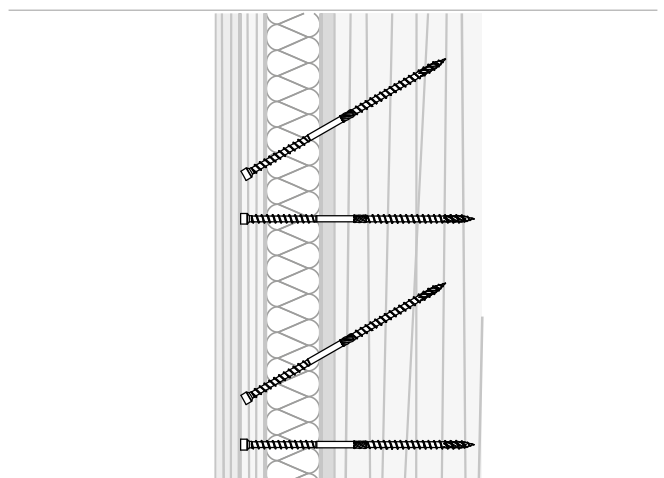
Fixing of rigid insulation

Insulation material with a high compressive strength ($\sigma(10\%) \geq 50 \text{ kPa}$ - EN 826)

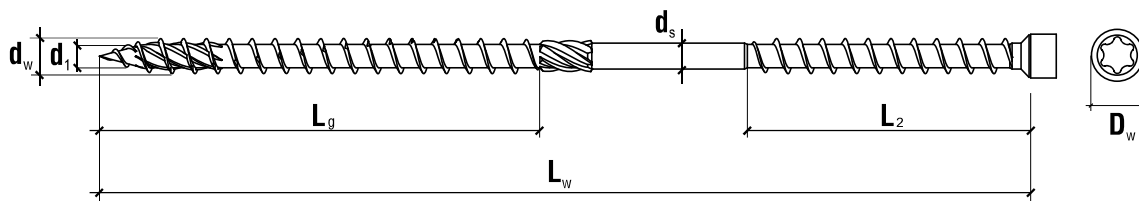


Fixing of insulation on façade

Insulation material with a high compressive strength ($\sigma(10\%) \geq 50 \text{ kPa}$ - EN 826)



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Codes and dimensions						
	Product code	Dimensions	Thread length	Underhead thread length	Type of drive	Quantity
	Galvanized - white	$d_w \times L_w$ [mm]	L_g [mm]	L_2 [mm]	[-]	[pcs]
WKPC-8						
ø8	WKPC-08165-B	8x165	80	60	TX 40	50
	WKPC-08195-B	8x195	100	60	TX 40	50
	WKPC-08225-B	8x225	100	60	TX 40	50
	WKPC-08235-B	8x235	100	60	TX 40	50
	WKPC-08255-B	8x255	100	60	TX 40	50
	WKPC-08275-B	8x275	100	60	TX 40	50
	WKPC-08302-B	8x302	100	60	TX 40	50
	WKPC-08335-B	8x335	100	60	TX 40	50
	WKPC-08365-B	8x365	100	60	TX 40	50
	WKPC-08397-B	8x397	100	60	TX 40	50
	WKPC-08435-B	8x435	100	60	TX 40	50
	WKPC-08472-B	8x472	100	60	TX 40	50

Geometry					
Product	Outer thread diameter	Inner thread diameter	Unthreaded part diameter	Head diameter	Length range
	d_w [mm]	d_1 [mm]	d_s [mm]	D_w [mm]	L_w [mm]
WKPC ø8	8	5,4	5,78	10	165-472

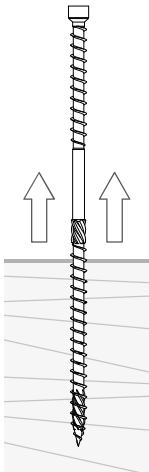
Mechanical characteristics					
Product	Characteristic yield moment	Characteristic withdrawal resistance parameter	Characteristic head-pull-through resistance parameter	Characteristic tensile strength	Characteristic torsional strength
	$M_{y,k}$ [N*m]	$f_{ax,k}$ [N/mm ²]	$f_{head,k}$ [N/mm ²]	$f_{tens,k}$ [kN]	$f_{tor,k}$ [N*m]
WKPC ø8	25,0	12,0	17,4	25,0	27,0

1. Characteristic withdrawal and head-pull-through resistance based on reference density of timber $\rho_s = 350 \text{ kg/m}^3$

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TIMBER

Minimum distances for axially loaded screws - timber



WITH PRE-DRILLED HOLE AND WITHOUT PRE-DRILLED HOLE

	a_1 [mm]	a_2 [mm]	$a_{1,CG}$ [mm]	$a_{2,CG}$ [mm]
WKPC $\varnothing 8$	56	40	80	32

