

PRODUCT DATA SHEET - KMWHT



Section 1. PRODUCT DESCRIPTION

CONSTRUCTION FLAT HEAD SCREW, TX - KMWHT

Construction screw KMWHT is made of yellow, blue (to order) zinc-plated low carbon steel or coated with SQ ceramic coating (to order). Screws are used for connecting structural wood elements including solid wood, glued laminated timber, X-Lam and LVL timber panels and wood-based panels. Screws have counter-sunk head with TX drive and a special cutting point suitable for connections in wooden structures.

Features and advantages of screws:

- wax coating reduced torque, faster and easier installation
- counter-sunk 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 finish result
- shank ribs reduce driving torque by reaming the hole
- serrated thread cuts wood structural fibres as the screw advances
- special cutting point makes the start of installation easier, without prior drilling
- length of screws up to 200 mm

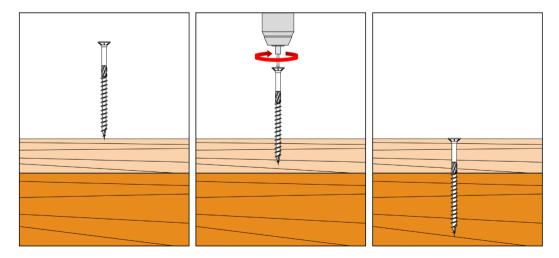


*Item on request and to order

Screws conform to European standard: PN-EN 14592:2008+A1:2012

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

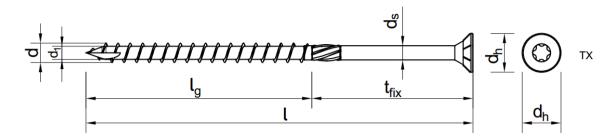




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Section 3. TECHNICAL DATA



TECHNICAL PARAMETERS								
Parameter	Unit	Value						
Thread outer diameter	d [mm]	3	3,5	4	4,5	5	6	
Thread inner diameter	d ₁ [mm]	2	2,25	2,65	2,8	3,1	3,8	
Smooth part diameter	d _s [mm]	-	-	-	-	-	-	
Head diameter	d _h [mm]	6	7	8	9	10	12	
Head area	A [mm²]	28	38	50	64	79	113	
Length range	l [mm]	30-40	30-50	30-70	40-80	40-120	50-200	
Drive type	-	TX-10	TX-15	TX-20	TX-20	TX-25	TX-30	
Screw material	-	carbon steel						
Corrosion protection	galvanized	≥ 5 µm						
	ceramic coating SQ	≥8 µm						
Corrosivity category	galvanized	C1/C2						
	ceramic coating SQ	C3						
Substrate material	wood	≥ C24						
European standard	-	PN-EN 14592:2008+A1:2012						

STRENGTH PARAMETERS								
Parameter	Unit	ø3	ø3,5	ø4	ø4,5	ø5	ø6	
Material characteristic yield strength	M _{y,k} [Nm]	2,454	3,641	5,162	7,023	9,247	14,815	
Characteristic pull-out resistance	f _{ax,k,90} [N/mm ²]	18,24	23,20	22,26	23,84	22,90	12,54	
Characteristic resistance to head pull-through	f _{head,k} [N/mm ²]	26,34	26,63	25,56	26,45	23,50	21,06	
Characteristic resistance for tension	f _{tens,k} [kN]	4,05	5,25	5,65	7,09	8,54	10,12	
Characteristic torsional strength	f _{tor,k} [Nm]	1,83	2,33	2,90	4,67	5,70	9,57	
Screw resistance factor	R _{tor,k} [Nm]	0,68	1,08	1,33	2,39	2,86	2,33	

SELECTION TABLE								
Product marking	Screw diameter	Screw length	Working thread length	Usable length	Drive type	Number of pieces in a box		
	d [mm]	l[mm]	l _g [mm]	t _{fix} [mm]	[-]	pcs		
KMWHT-30030	3,0	30	17	13	TX-10	500		
KMWHT-30035	3,0	35	17	18	TX-10	500		
KMWHT-30040	3,0	40	22	18	TX-10	500		
KMWHT-35030	3,5	30	17	13	TX-15	500		
KMWHT-35035	3,5	35	17	18	TX-15	500		
KMWHT-35040	3,5	40	22	18	TX-15	500		
KMWHT-35050	3,5	50	30	20	TX-15	400		
KMWHT-40030	4,0	30	17	13	TX-20	500		
KMWHT-40035	4,0	35	17	18	TX-20	500		
KMWHT-40040	4,0	40	22	18	TX-20	500		
KMWHT-40045	4,0	45	30	15	TX-20	300		
KMWHT-40050	4,0	50	30	20	TX-20	300		
KMWHT-40060	4,0	60	35	25	TX-20	250		
KMWHT-40070	4,0	70	40	30	TX-20	250		

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KMWHT-45040	4,5	40	22	18	TX-20	250
KMWHT-45050	4,5	50	30	20	TX-20	250
KMWHT-45060	4,5	60	35	25	TX-20	250
KMWHT-45070	4,5	70	40	30	TX-20	250
KMWHT-45080	4,5	80	50	30	TX-20	250
KMWHT-50040	5,0	40	22	18	TX-25	500
KMWHT-50050	5,0	50	30	20	TX-25	300
KMWHT-50060	5,0	60	35	25	TX-25	200
KMWHT-50070	5,0	70	40	30	TX-25	200
KMWHT-50080	5,0	80	50	30	TX-25	200
KMWHT-50090	5,0	90	50	40	TX-25	200
KMWHT-50100	5,0	100	60	40	TX-25	200
KMWHT-50120	5,0	120	70	50	TX-25	200
KMWHT-60050	6,0	50	30	20	TX-30	200
KMWHT-60060	6,0	60	35	25	TX-30	200
KMWHT-60070	6,0	70	40	30	TX-30	200
KMWHT-60080	6,0	80	50	30	TX-30	200
KMWHT-60090	6,0	90	50	40	TX-30	100
KMWHT-60100	6,0	100	60	40	TX-30	100
KMWHT-60120	6,0	120	70	50	TX-30	100
KMWHT-60140	6,0	140	70	70	TX-30	100
KMWHT-60160	6,0	160	70	90	TX-30	100
KMWHT-60180	6,0	180	70	110	TX-30	100
KMWHT-60200	6,0	200	70	130	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.