

PRODUCT DATA SHEET – WKCS



Section 1. PRODUCT DESCRIPTION

CONSTRUCTION FLAT HEAD SCREW, TX - WKCS

Construction screw WKCS 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 400mm



Zn - yellow Zn - blue* SQ ceramic*

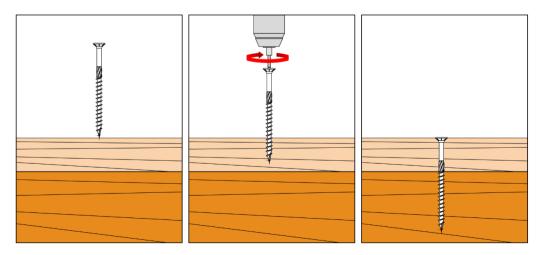
*Item on request and to order



Screws hold European Technical Assessment: ETA-18/0817

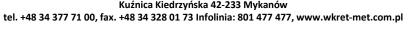
Section 2. METHOD OF INSTALLATION

- 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



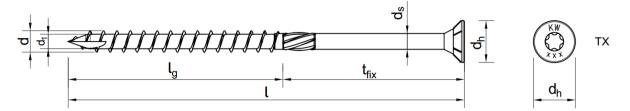
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Section 3. TECHNICAL DATA



TECHNICAL PARAMETERS						
Parameter	Unit	Value				
Thread outer diameter	d [mm]	6 8 10				
Thread inner diameter	d ₁ [mm]	3,9	3,9 5,4			
Smooth part diameter	d _s [mm]	4,3	5,8	7		
Head diameter	d _h [mm]	12	14,5	18		
Head area	A [mm²]	113	165	254		
Length range	l [mm]	50-300	80-400	100-400		
Drive type	-	TX-30 TX-40		TX-40		
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 Technical Assessment	-	ETA-18/0817				

STRENGTH PARAMETERS						
Parameter	Unit	WKCS ø6	WKCS ø8	WKCS ø10		
Material characteristic yield strength	M _{y,k} [Nm]	10,0	25,0	43,0		
Characteristic pull-out resistance	f _{ax,k,90} [N/mm ²]	12,0	12,0	11,0		
Characteristic resistance to head pull-through	f _{head,k} [N/mm ²]	9,4	9,4	9,4		
Characteristic resistance for tension	f _{tens,k} [kN]	13,0	25,0	36,0		
Characteristic torsional strength	f _{tor,k} [Nm]	10,0	27,0	45,0		

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]	lg [mm]	t _{fix} [mm]	[-]	pcs
WKCS-06050	6,0	50	30	20	TX-30	100
WKCS-06060	6,0	60	35	25	TX-30	100
WKCS-06070	6,0	70	40	30	TX-30	100
WKCS-06080	6,0	80	50	30	TX-30	100
WKCS-06090	6,0	90	50	40	TX-30	50
WKCS-06100	6,0	100	50	50	TX-30	50
WKCS-06110	6,0	110	60	50	TX-30	50
WKCS-06120	6,0	120	60	60	TX-30	50
WKCS-06130	6,0	130	60	70	TX-30	50
WKCS-06140	6,0	140	70	70	TX-30	50
WKCS-06160	6,0	160	70	90	TX-30	50
WKCS-06180	6,0	180	70	110	TX-30	50
WKCS-06200	6,0	200	70	130	TX-30	50
WKCS-06220	6,0	220	70	150	TX-30	50
WKCS-06240	6,0	240	70	170	TX-30	50
WKCS-06260	6,0	260	70	190	TX-30	50
WKCS-06280	6,0	280	70	210	TX-30	50

KLIMAS Sp. z o.o. ul. W. Witosa 135/137 Kuźnica Kiedrzyńska 42-233 Mykanów tel. +48 34 377 71 00, fax. +48 34 328 01 73 Infolinia: 801 477 477, www.wkret-met.com.pl



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WKCS-06300	6,0	300	70	230	TX-30	50
WKCS-08080	8,0	80	50	30	TX-40	50
WKCS-08090	8,0	90	50	40	TX-40	50
WKCS-08100	8,0	100	50	50	TX-40	50
WKCS-08120	8,0	120	60	60	TX-40	50
WKCS-08140	8,0	140	60	80	TX-40	50
WKCS-08160	8,0	160	80	80	TX-40	50
WKCS-08180	8,0	180	80	100	TX-40	50
WKCS-08200	8,0	200	80	120	TX-40	50
WKCS-08220	8,0	220	80	140	TX-40	50
WKCS-08240	8,0	240	80	160	TX-40	50
WKCS-08260	8,0	260	80	180	TX-40	50
WKCS-08280	8,0	280	80	200	TX-40	50
WKCS-08300	8,0	300	80	220	TX-40	50
WKCS-08320	8,0	320	80	240	TX-40	50
WKCS-08340	8,0	340	80	260	TX-40	50
WKCS-08360	8,0	360	80	280	TX-40	50
WKCS-08380	8,0	380	80	300	TX-40	50
WKCS-08400	8,0	400	80	320	TX-40	50
WKCS-10100	10,0	100	50	50	TX-40	50
WKCS-10120	10,0	120	60	60	TX-40	50
WKCS-10140	10,0	140	60	80	TX-40	50
WKCS-10160	10,0	160	80	80	TX-40	50
WKCS-10180	10,0	180	80	100	TX-40	50
WKCS-10200	10,0	200	80	120	TX-40	50
WKCS-10220	10,0	220	80	140	TX-40	25
WKCS-10240	10,0	240	80	160	TX-40	25
WKCS-10260	10,0	260	80	180	TX-40	25
WKCS-10280	10,0	280	80	200	TX-40	25
WKCS-10300	10,0	300	80	220	TX-40	25
WKCS-10320	10,0	320	80	240	TX-40	25
WKCS-10340	10,0	340	80	260	TX-40	25
WKCS-10360	10,0	360	80	280	TX-40	25
WKCS-10380	10,0	380	80	300	TX-40	25
WKCS-10400	10,0	400	80	320	TX-40	25

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.