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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:

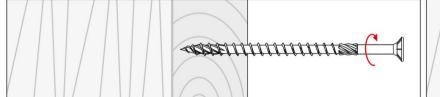
- wax coating reduced torque, faster and easier installation
- counter-sunk head ensures flush fitting of the screw in the installed member
- TX drive guarantees optimum torque transfer as the screw advances
- cutting ribs ensures aesthetic finish result
- · shank ribs reduce driving torque by reaming 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

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





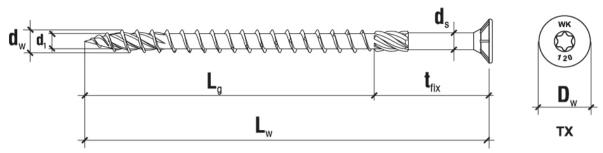


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Section 3. TECHNICAL DATA



TECHNICAL PARAMETERS					
Parameter	Unit	Value			
Thread outer diameter	d _w [mm]	8	10		
Thread inner diameter	d ₁ [mm]	5,4	6,4		
Smooth part diameter	d _s [mm]	5,8	7		
Head diameter	D _w [mm]	14,5	18		
Head area	A [mm²]	165	254		
Length range	L _w [mm]	80-400	120-400		
Drive type	-	TX-40	TX-40		
Screw material	-	carbon steel			
Compains analystics	galvanized	≥ 5 µm			
Corrosion protection	ceramic coating SQ	≥ 8 µm			
Correctivity sategory	galvanized	C1/C2			
Corrosivity category	ceramic coating SQ	C3			
Substrate material	wood	≥ C24			

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

SELECTION TABLE								
Product marking		Screw diameter	Screw length	Working thread length	Max. usable length	Drive type	Number of pieces in a box	
Galvanized - yellow	Galvanized - white*	SQ Ceramic*	d _w [mm]	L _w [mm]	L _g [mm]	t _{fix} [mm]	[-]	pcs
WKCS-08080	WKCS-08080-B	WKCS-08080-D	8,0	80	50	30	TX-40	50
WKCS-08100	WKCS-08100-B	WKCS-08100-D	8,0	100	50	50	TX-40	50
WKCS-08120	WKCS-08120-B	WKCS-08120-D	8,0	120	80	40	TX-40	50
WKCS-08140	WKCS-08140-B	WKCS-08140-D	8,0	140	80	60	TX-40	50
WKCS-08160	WKCS-08160-B	WKCS-08160-D	8,0	160	80	80	TX-40	50
WKCS-08180	WKCS-08180-B	WKCS-08180-D	8,0	180	80	100	TX-40	50
WKCS-08200	WKCS-08200-B	WKCS-08200-D	8,0	200	80	120	TX-40	50
WKCS-08220	WKCS-08220-B	WKCS-08220-D	8,0	220	80	140	TX-40	50
WKCS-08240	WKCS-08240-B	WKCS-08240-D	8,0	240	80	160	TX-40	50
WKCS-08260	WKCS-08260-B	WKCS-08260-D	8,0	260	80	180	TX-40	50
WKCS-08280	WKCS-08280-B	WKCS-08280-D	8,0	280	80	200	TX-40	50
WKCS-08300	WKCS-08300-B	WKCS-08300-D	8,0	300	80	220	TX-40	50
WKCS-08320	WKCS-08320-B	WKCS-08320-D	8,0	320	80	240	TX-40	50
WKCS-08340	WKCS-08340-B	WKCS-08340-D	8,0	340	80	260	TX-40	50
WKCS-08360	WKCS-08360-B	WKCS-08360-D	8,0	360	80	280	TX-40	50
WKCS-08380	WKCS-08380-B	WKCS-08380-D	8,0	380	80	300	TX-40	50
WKCS-08400	WKCS-08400-B	WKCS-08400-D	8,0	400	80	320	TX-40	50
WKCS-10120	WKCS-10120-B	WKCS-10120-D	10,0	120	80	40	TX-40	50



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PRODUCT DATA SHEET – WKCS

WKCS-10140	WKCS-10140-B	WKCS-10140-D	10,0	140	80	60	TX-40	50
WKCS-10160	WKCS-10160-B	WKCS-10160-D	10,0	160	80	80	TX-40	50
WKCS-10180	WKCS-10180-B	WKCS-10180-D	10,0	180	80	100	TX-40	50
WKCS-10200	WKCS-10200-B	WKCS-10200-D	10,0	200	80	120	TX-40	50
WKCS-10220	WKCS-10220-B	WKCS-10220-D	10,0	220	80	140	TX-40	25
WKCS-10240	WKCS-10240-B	WKCS-10240-D	10,0	240	80	160	TX-40	25
WKCS-10260	WKCS-10260-B	WKCS-10260-D	10,0	260	80	180	TX-40	25
WKCS-10280	WKCS-10280-B	WKCS-10280-D	10,0	280	80	200	TX-40	25
WKCS-10300	WKCS-10300-B	WKCS-10300-D	10,0	300	80	220	TX-40	25
WKCS-10320	WKCS-10320-B	WKCS-10320-D	10,0	320	80	240	TX-40	25
WKCS-10340	WKCS-10340-B	WKCS-10340-D	10,0	340	80	260	TX-40	25
WKCS-10360	WKCS-10360-B	WKCS-10360-D	10,0	360	80	280	TX-40	25
WKCS-10380	WKCS-10380-B	WKCS-10380-D	10,0	380	80	300	TX-40	25
WKCS-10400	WKCS-10400-B	WKCS-10400-D	10,0	400	80	320	TX-40	25

^{*}item on request and to order

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.