

## Section 1. PRODUCT DESCRIPTION

### SCREW FOR WOOD CONSTRUCTION CONNECTORS, TX – WKLC

Screw for wood construction connectors WKLC is made of carbon steel covered with a protective layer of white galvanic zinc. Screws used they are primarily for fixing three-dimensional carpentry connectors to wooden substrates. The screws have a cylindrical head with a TX socket.



#### Features and advantages of screws:

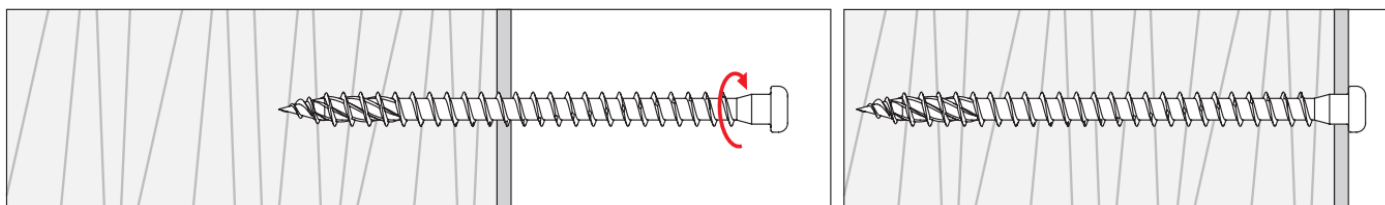
- cylindrical head – ensures adequate pressure of the fixed element
- TX drive – guarantees optimum torque transfer as the screw advances
- underhead reinforcement – wider screw diameter under the head improves shear strength of the screw
- cutting notches – cuts the fibers of the wood structure while 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



Screws hold European Technical Assessment: ETA-18/0817

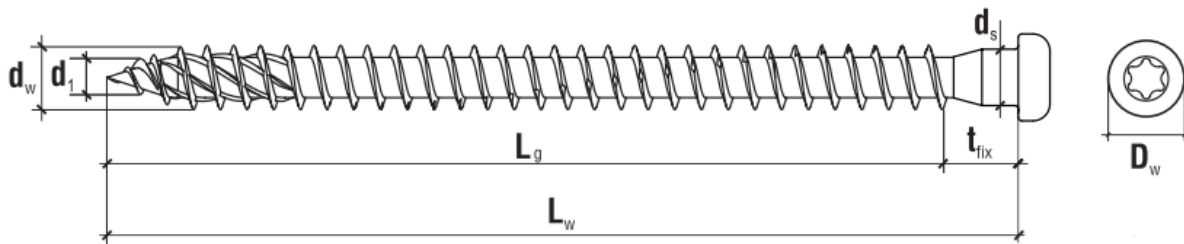
## Section 2. METHOD OF INSTALLATION

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



**PRODUCT DATA SHEET – WKLC**

**Section 3. TECHNICAL DATA**



TECHNICAL PARAMETERS		
Parameter	Unit	Value
Thread outer diameter	$d_w$ [mm]	5,0
Thread inner diameter	$d_1$ [mm]	3,3
Thread inner diameter	$d_s$ [mm]	4,8
Head diameter	$D_w$ [mm]	7,4
Length range	$L_w$ [mm]	30-70
Drive type	-	TX 20
Screw material	-	carbon steel
Corrosion protection	galvanized	$\geq 5 \mu\text{m}$
Substrate material	wood	$\geq \text{C24}$
European Technical Assessment	-	ETA-18/0817

STRENGTH PARAMETERS		
Parameter	Unit	Value
Material characteristic yield strength	$M_{y,k}$ [Nm]	7,0
Characteristic pull-out resistance	$f_{ax,k,90}$ [N/mm <sup>2</sup> ]	13,0
Characteristic resistance to head pull-through	$f_{head,k}$ [N/mm <sup>2</sup> ]	9,4
Characteristic resistance for tension	$f_{tens,k}$ [kN]	10,0
Characteristic torsional strength	$f_{tor,k}$ [Nm]	7,0

SELECTION TABLE						
Product marking	Screw diameter	Screw length	Working thread length	Usable length	Drive type	Number of pieces in a box
	$d_w$ [mm]	$L_w$ [mm]	$L_g$ [mm]	$t_{fix}$ [mm]	[-]	[pcs]
WKLC-50030-B	5,0	30	22	-	TX 20	250
WKLC-50035-B	5,0	35	30	5	TX 20	250
WKLC-50040-B	5,0	40	30	10	TX 20	250
WKLC-50050-B	5,0	50	40	20	TX 20	250
WKLC-50060-B	5,0	60	50	30	TX 20	250
WKLC-50070-B	5,0	70	60	40	TX 20	250

**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.