

Section 1. PRODUCT DESCRIPTION

SCREW WITH UNDERHEAD THREAD FOR DECKING AND OTHER WOOD STRUCTURES, TX – HNT

Screw HNT with underhead thread for deck boards and other wood structures. Made of stainless steel A2 INOX. Special design ensures correct and continuous tightness of wooden and wood-based members. Easy installation and removal in comparison to the “clip” technology - stripping neighbouring decking boards is no longer necessary. Screws can be used in exotic hardwood, chipboard, plywood, wood, sterling board, MDF board. Pre-drilling is always recommended for exotic hardwood.



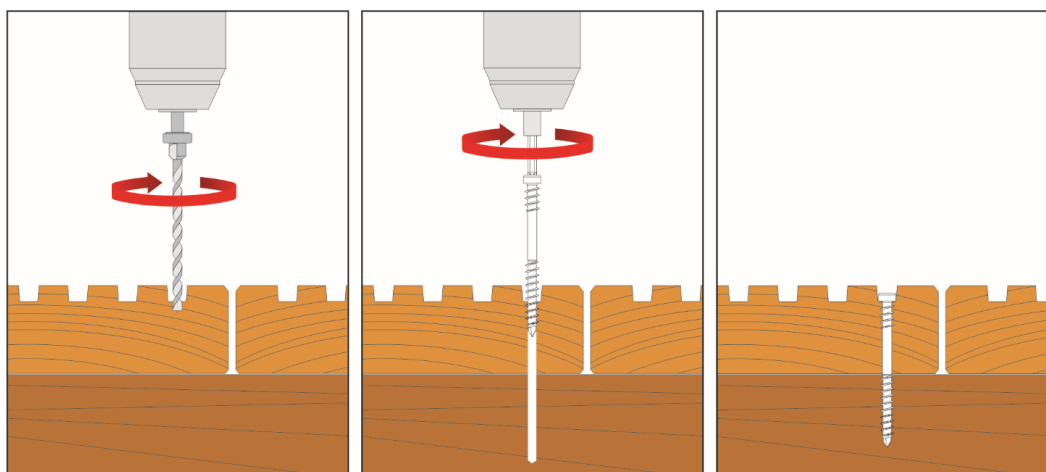
Features and advantages of screws:

- TX drive – guarantees optimum torque transfer
- tight pan head – the width and shape of the head is matched to deck boards
- underhead thread – guarantees a secure installation
- special cutting point – makes for a quick start installation of the screw and prevents wood from splitting

Screws conform to European standard: EN 14592+A1:2012

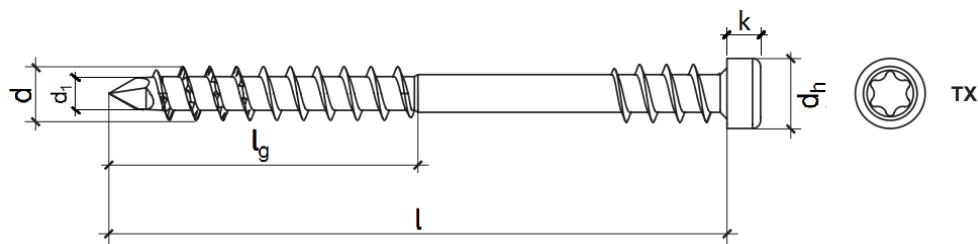
Section 2. METHOD OF INSTALLATION

1. Original screws delivered by the manufacturer can be used only
2. Screws are designed for installation of deck boards to wooden beams
3. Before installation select adequate length of screws depending on thickness of elements to be fastened and minimum anchorage depth
4. 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
5. The decking should be fastened perpendicularly to the beams (keeping adequate expansion gap between boards in accordance with board manufacturer's guidelines)
6. Boards and wooden beams should be drilled using drill bit \varnothing 4.0mm on a depth equal to the screw length
7. Screw depth must be at least twice the deck board thickness
8. It is recommended that holes are made in ribs of the board no closer than 25mm from the board edge and no closer than 50mm from its head
9. Exotic hardwood boards should be additionally drilled using drill bit \varnothing 7.0mm to a depth of about 4-5mm when preparing socket for screw head, to protect the board from splitting or the screw from breaking as it advances
10. For each connection between board and beam 2 screws at a board width are required
11. Screws should be installed using screw gun and bit suitable for TX drive
12. The torque value depends on the hardness of the wood used, and screws should not be tightened using excessive torque, while bearing in mind “work” of the wood due to changing weather conditions



PRODUCT DATA SHEET – HNT

Section 3. TECHNICAL DATA



TECHNICAL PARAMETERS		
Parameter	Unit	Value
Thread outer diameter	d [mm]	5
Thread inner diameter	d ₁ [mm]	3,64
Smooth part diameter	d _g [mm]	-
Head diameter	d _h [mm]	7,35
Head height	k [mm]	3,2
Head area	A [mm ²]	42
Length range	l [mm]	50-80
Drive type	-	TX-25
Screw material	-	stainless steel A2 INOX
European standard	-	EN 14592+A1:2012

STRENGTH PARAMETERS		
Parameter	Unit	ø5
Material characteristic yield strength	M _{y,k} [Nm]	10,898
Characteristic pull-out resistance	f _{ax,k,90} [N/mm ²]	26,75
Characteristic resistance to head pull-through	f _{head,k} [N/mm ²]	39,60
Characteristic resistance for tension	f _{tens,k} [kN]	9,23
Characteristic torsional strength	f _{tor,k} [Nm]	7,32
Screw resistance factor	R _{tor,k} [Nm]	3,21

SELECTION TABLE					
Product marking	Screw diameter	Screw length	Working thread length	Drive type	Number of pieces in a box
	d [mm]	l [mm]	l _g [mm]	[-]	pcs
HNT-50050-A2	5,0	50	22,5	TX-25	100
HNT-50060-A2	5,0	60	27,5	TX-25	100
HNT-50070-A2	5,0	70	32,5	TX-25	100
HNT-50080-A2	5,0	80	37,5	TX-25	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.