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PRODUCT DATA SHEET – WN



Section 1. PRODUCT DESCRIPTION

SCREW FOR EXOTIC HARDWOOD - WN

Screw WN designed for exotic hardwood is made of stainless steel A2 INOX. Its special design prevents wood from cracking and splitting. Head angle of 60° together with ribs ensures its correct sinking in the material. 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:

- counter-sunk head ensures flush fitting of the screw in the installed member
- TX drive guarantees optimum torque transfer
- cutting ribs and head 60° aesthetic finish result thanks to full sinking of the head in the member being fastened
- shank ribs reduce driving torque by reaming the hole
- serrated thread cuts wood structural fibres as the screw advances
- special cutting point makes for a quick start installation of the screw and prevents wood from splitting



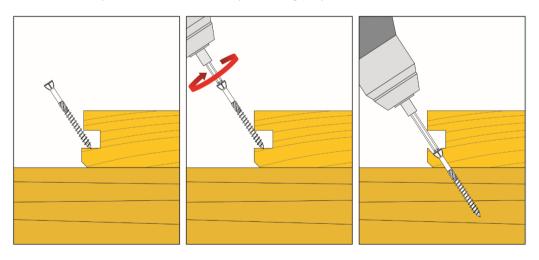




Screws conform to European standard: EN 14592+A1:2012

Section 2. METHOD OF INSTALLATION

- 1. Original screws delivered by the manufacturer can be used only
- 2. 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 after prior drilling (only for exotic hardwood)

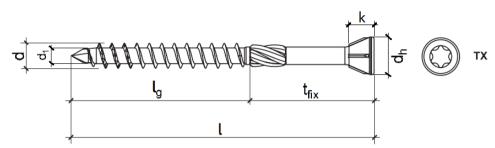






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Section 3. TECHNICAL DATA



TECHNICAL PARAMETERS							
Parameter	Unit	Value					
Thread outer diameter	d [mm]	4	5				
Thread inner diameter	d₁ [mm]	2,87	3,23				
Smooth part diameter	d _s [mm]	-	-				
Head diameter	d _h [mm]	6,62	7,98				
Head height	k [mm]	3,6	4,0				
Head area	A [mm ²]	34	50				
Length range	l [mm]	40-60	50-80				
Drive type	-	TX-15	TX-20				
Screw material	-	stainless steel A2 INOX					
European standard	-	EN 14592+A1:2012					

STRENGTH PARAMETERS								
Parameter	Unit	ø4	ø5					
Material characteristic yield strength	M _{y,k} [Nm]	6,149	10,956					
Characteristic pull-out resistance	f _{ax,k,90} [N/mm ²]	26,56	23,32					
Characteristic resistance to head pull-through	f _{head,k} [N/mm ²]	28,82	41,19					
Characteristic resistance for tension	f _{tens,k} [kN]	6,95	7,60					
Characteristic torsional strength	f _{tor,k} [Nm]	3,76	7,35					
Screw resistance factor	R _{tor,k} [Nm]	2,18	4,41					

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			
WN-40040-A2	4,0	40	22	18	TX-15	200			
WN-40045-A2	4,0	45	30	15	TX-15	200			
WN-40050-A2	4,0	50	30	20	TX-15	200			
WN-40060-A2	4,0	60	35	25	TX-15	200			
WN-50050-A2	5,0	50	30	20	TX-20	100			
WN-50060-A2	5,0	60	35	25	TX-20	100			
WN-50070-A2	5,0	70	40	30	TX-20	100			
WN-50080-A2	5,0	80	50	30	TX-20	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.