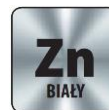


Section 1. PRODUCT DESCRIPTION

HEX HEAD WOOD SCREW – K

Construction screw K is made of zinc-plated low carbon steel with blue protective coating. Screws for fastening of wooden elements including solid wood, glued laminated timber, X-Lam and LVL timber panels and wood-based panels, steel and PVC elements to timber. Screws have hex head and a special cutting point suitable for connections in wooden structures.



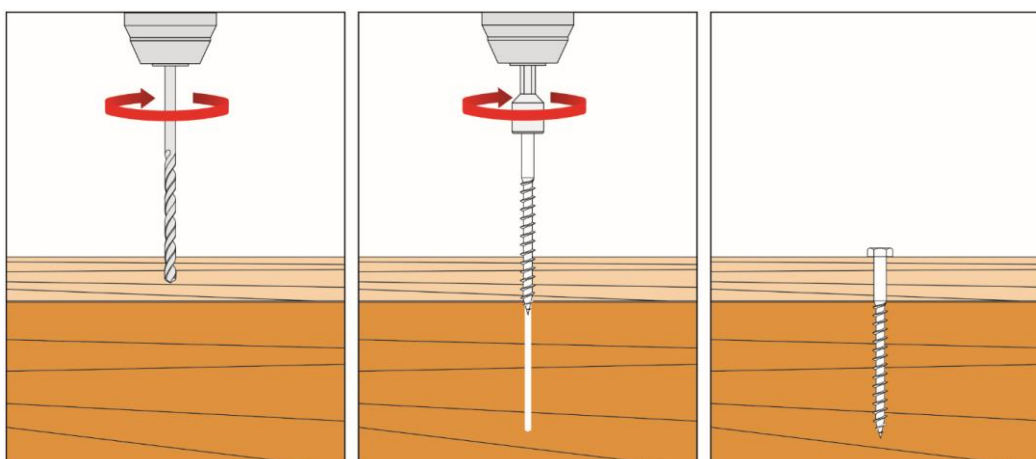
Features and advantages of screws:

- hex head – improves the holding power of the connections
- partial thread – prevents cracking of elements being installed and guarantees their tight fastening

Screws conform to European standard: PN-EN 14592:2008+A1:2012

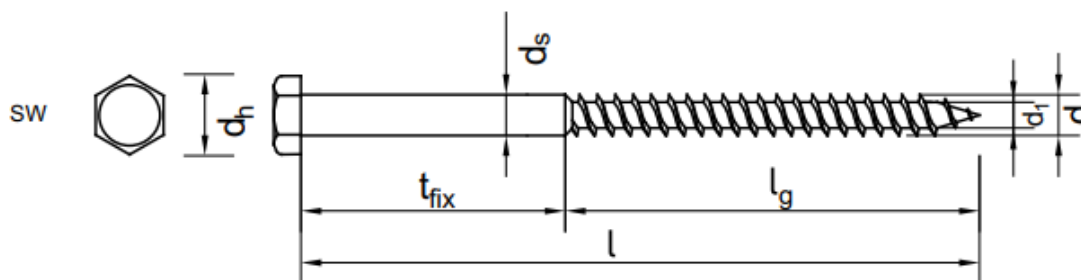
Section 2. METHOD OF INSTALLATION

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 hex head
5. Screws should be driven directly in wooden substrate after prior drilling



PRODUCT DATA SHEET – K

Section 3. TECHNICAL DATA



TECHNICAL PARAMETERS					
Parameter	Unit	Value			
Thread outer diameter	d [mm]	6	8	10	12
Thread inner diameter	d ₁ [mm]	4,2	5,6	7,2	9,2
Smooth part diameter	d _s [mm]	-	-	-	-
Head diameter	d _h [mm]	10	13	17	19
Length range	l [mm]	60-140	60-200	80-200	120-260
Drive type	-	SW-10	SW-13	SW-17	SW-19
Screw material	-	carbon steel			
Corrosion protection	galvanized	≥ 5 μm			
Corrosivity category	-	C1/C2			
Substrate material	wood	≥ C24			
European standard	-	PN-EN 14592:2008+A1:2012			

STRENGTH PARAMETERS					
Parameter	Unit	ø6	ø8	ø10	ø12
Material characteristic yield strength	M _{y,k} [Nm]	11,852	25,040	44,729	71,856
Characteristic pull-out resistance	f _{ax,k,90} [N/mm ²]	21,87	21,01	18,31	15,78
Characteristic resistance to head pull-through	f _{head,k} [N/mm ²]	22,73	20,87	21,83	22,91
Characteristic resistance for tension	f _{tens,k} [kN]	9,19	13,49	20,73	25,06
Characteristic torsional strength	f _{tor,k} [Nm]	7,69	11,37	16,37	19,68
Screw resistance factor	R _{tor,k} [Nm]	4,18	7,54	9,70	10,51

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]	[-]	[kg]
K-06060(X5)	6,0	60	≥ 0,6 x l	-	SW-10	5
K-06070(X5)	6,0	70	≥ 0,6 x l	-	SW-10	5
K-06080(X5)	6,0	80	≥ 0,6 x l	-	SW-10	5
K-06090(X5)	6,0	90	≥ 0,6 x l	-	SW-10	5
K-06100(X5)	6,0	100	≥ 0,6 x l	-	SW-10	5
K-06120(X5)	6,0	120	≥ 0,6 x l	-	SW-10	5
K-06140(X5)	6,0	140	≥ 0,6 x l	-	SW-10	5
K-08060(X5)	8,0	60	≥ 0,6 x l	-	SW-13	5
K-08070(X5)	8,0	70	≥ 0,6 x l	-	SW-13	5
K-08080(X5)	8,0	80	≥ 0,6 x l	-	SW-13	5
K-08090(X5)	8,0	90	≥ 0,6 x l	-	SW-13	5
K-08100(X5)	8,0	100	≥ 0,6 x l	-	SW-13	5
K-08120(X5)	8,0	120	≥ 0,6 x l	-	SW-13	5
K-08140(X5)	8,0	140	≥ 0,6 x l	-	SW-13	5
K-08160(X5)	8,0	160	≥ 0,6 x l	-	SW-13	5
K-08180(X5)	8,0	180	≥ 0,6 x l	-	SW-13	5
K-08200(X5)	8,0	200	≥ 0,6 x l	-	SW-13	5

PRODUCT DATA SHEET – K

K-10080(X5)	10,0	80	≥ 0,6 x l	-	SW-17	5
K-10100(X5)	10,0	100	≥ 0,6 x l	-	SW-17	5
K-10120(X5)	10,0	120	≥ 0,6 x l	-	SW-17	5
K-10140(X5)	10,0	140	≥ 0,6 x l	-	SW-17	5
K-10160(X5)	10,0	160	≥ 0,6 x l	-	SW-17	5
K-10180(X5)	10,0	180	≥ 0,6 x l	-	SW-17	5
K-10200(X5)	10,0	200	≥ 0,6 x l	-	SW-17	5
K-12120(X5)	12,0	120	≥ 0,6 x l	-	SW-19	5
K-12140(X5)	12,0	140	≥ 0,6 x l	-	SW-19	5
K-12160(X5)	12,0	160	≥ 0,6 x l	-	SW-19	5
K-12180(X5)	12,0	180	≥ 0,6 x l	-	SW-19	5
K-12200(X5)	12,0	200	≥ 0,6 x l	-	SW-19	5
K-12220(X5)	12,0	220	≥ 0,6 x l	-	SW-19	5
K-12240(X5)	12,0	240	≥ 0,6 x l	-	SW-19	5
K-12260(X5)	12,0	260	≥ 0,6 x l	-	SW-19	5

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.