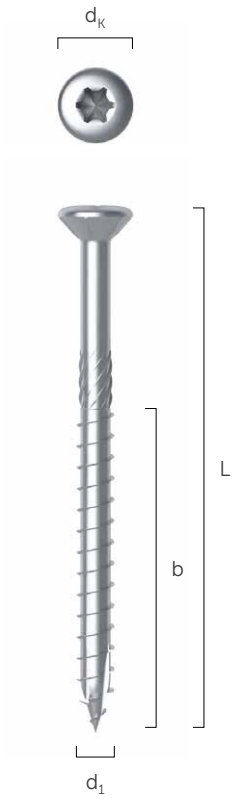
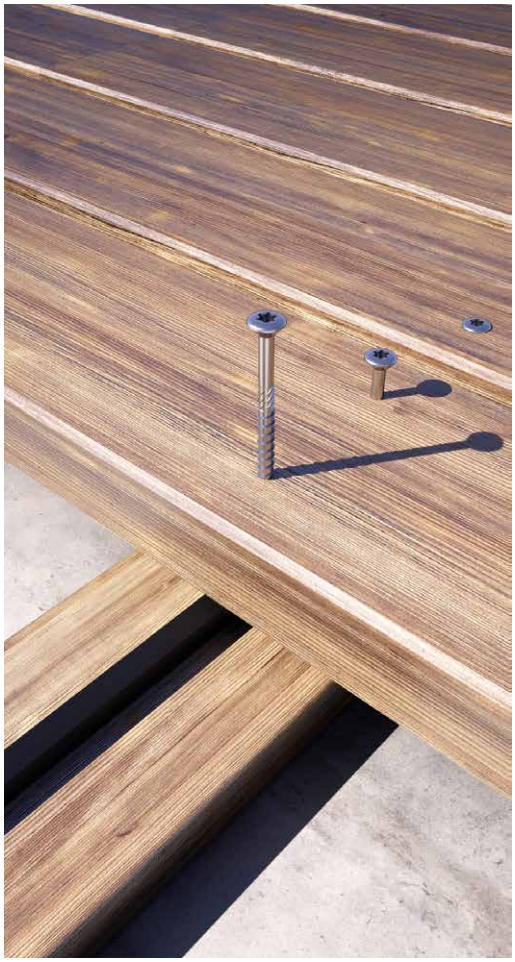
BFO

CE EN 14592

ROUND-HEAD SCREW AND REINFORCED SHANK

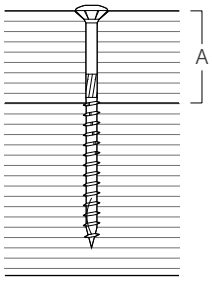
- Countersunk teardrop shaped head with curved surface for a pleasant look and firm grip with the bit
- The increased shank diameter with high torsional strength for a strong, safe screwing even in high density woods
- In A2 | AISI305 stainless steel, it is suitable for service classes 1-2-3
- It can be used without pre-drill, in woods having a maximum density of 550 kg/m³





MATERIAL: A2 | AISI305 austenitic stainless steel

A maximum fastening thickness



A2 AISI 305 INCLUDED

d_1 [mm]	d_K [mm]	CODE	L [mm]	b [mm]	A [mm]	pcs
5 TX 25	8,00	BFO550	50	30	20	200
		BFO560	60	36	24	200
		BFO570	70	42	28	100

BFO BUCKET

CE EN 14592

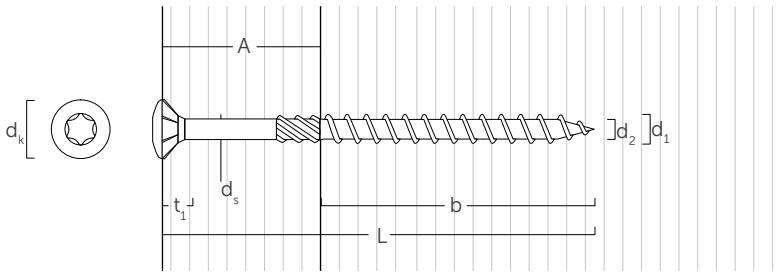
SCREWS IN BUCKET 1000

- Practical version with 1000 pieces per package
- Packaging that guarantees durability even in rainy conditions
- PET plastic box, durable, impact-resistant and reusable

A2 AISI 305 INCLUDED

d_1 [mm]	d_K [mm]	CODE	L [mm]	b [mm]	A [mm]	pcs
5 TX 25	8,00	BFOBUC550	50	30	20	1000
		BFOBUC560	60	36	24	1000

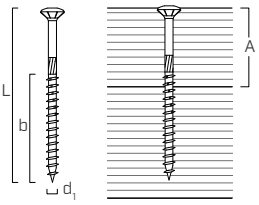
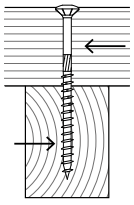
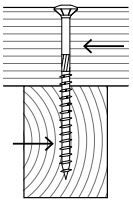
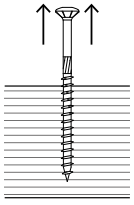
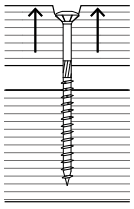
GEOMETRY AND MECHANICAL CHARACTERISTICS



nominal diameter	**d_1**	**[mm]**	**5,3**
head diameter	d_K	[mm]	8,00
thread diameter	d_2	[mm]	3,90
shank diameter	d_S	[mm]	4,10
head thickness	t_1	[mm]	3,65
pre-drilling hole diameter(1)	d_V	[mm]	3,50
characteristic yield moment	$M_{y,k}$	[Nm]	9,7
characteristic withdrawal-resistance parameter(2)	$f_{ax,k}$	[N/mm²]	16,62
characteristic head-pull-through parameter(2)	$f_{head,k}$	[N/mm²]	21,44
characteristic tensile strength	$f_{tens,k}$	[kN]	7,35

(1)For high density materials, pre-bored holes are recommended based on the wood species.
(2)Associated density ρ_a = 350 kg/m³.

STRUCTURAL VALUES

				SHEAR		**TENSION**	
geometry				**timber-to-timber without pre-drilling hole**	**timber-to-timber with pre-drilling hole**	**thread withdrawal(1)**	**head pull-through(2)**
							
d_1 [mm]	**L** [mm]	**b** [mm]	**A** [mm]	**$R_{V,k}$** [kN]	**$R_{V,k}$** [kN]	**$R_{ax,k}$** [kN]	**$R_{head,k}$** [kN]
5	50	30	20	1,39	1,80	2,88	1,59
	60	36	30	1,55	2,08	3,46	1,59
	70	42	40	1,68	2,14	4,04	1,59

NOTES

(1) The axial thread withdrawal resistance was calculated considering a 90° angle between the grain and the connector and for a fixing length of b.
(2) The axial resistance to head pull-through was calculated using timber elements.

GENERAL PRINCIPLES

- Characteristic values according to EN 1995:2014.
- Design values can be obtained from characteristic values as follows:

$$R_d = \frac{R_k \cdot k_{mod}}{\gamma_M}$$

  The coefficients γ_M and k_{mod} should be taken according to the current regulations used for the calculation.
- Mechanical strength values and screw geometry according to CE marking according to EN 14592.
- For the calculation process a timber characteristic density ρ^k = 420 kg/m³ has been considered.
- Values were calculated considering the threaded part as being completely inserted into the wood.
- Dimensioning and verification of timber and steel elements must be carried out separately.