

TBS EVO C5

FLANGE HEAD SCREW



C5 ATMOSPHERIC CORROSIVITY

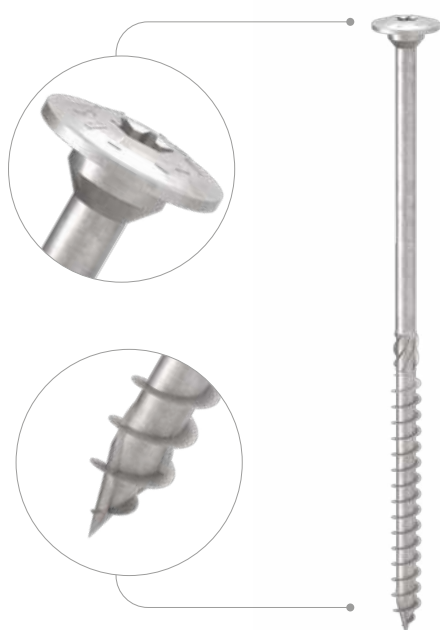
Multi-layer coating capable of withstanding outdoor environments classified C5 according to ISO 9223. SST (Salt Spray Test) with exposure time greater than 3000h carried out on screws previously screwed and unscrewed in Douglas fir timber.

MAXIMUM STRENGTH

It is the screw of choice when high mechanical performance is required under very adverse environmental and wood corrosive conditions. The wide head provides additional tensile strength, which is ideal in the presence of wind or variations in timber dimensions.

3 THORNS TIP

Thanks to the 3 THORNS tip, minimum installation distances are reduced. More screws can be used in less space and larger screws in smaller elements. Costs and time for project implementation are reduced.



MANUALS



BIT INCLUDED

LENGTH [mm]

B 6 8 16

DIAMETER [mm]

40 60 240 1000

SERVICE CLASS

SC1 SC2 SC3

ATMOSPHERIC CORROSIVITY

C1 C2 C3 C4 C5

WOOD CORROSIVITY

T1 T2 T3 T4

MATERIAL

C5
EVO
COATING

carbon steel with C5 EVO coating with very high corrosion resistance



FIELDS OF USE

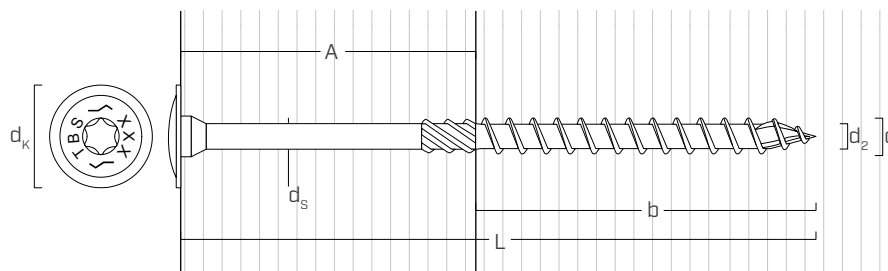
- timber based panels
- solid timber and glulam
- CLT and LVL
- high density woods

CODES AND DIMENSIONS

d_1 [mm]	d_k [mm]	CODE	L [mm]	b [mm]	A [mm]	pcs
6 TX 30	15,5	TBSEVO660C5	60	40	20	100
		TBSEVO680C5	80	50	30	100
		TBSEVO6100C5	100	60	40	100
		TBSEVO6120C5	120	75	45	100
		TBSEVO6140C5	140	75	65	100
		TBSEVO6160C5	160	75	85	100
		TBSEVO6180C5	180	75	105	100
		TBSEVO6200C5	200	75	125	100

d_1 [mm]	d_k [mm]	CODE	L [mm]	b [mm]	A [mm]	pcs
8 TX 40	19,0	TBSEVO8100C5	100	52	48	50
		TBSEVO8120C5	120	80	40	50
		TBSEVO8140C5	140	80	60	50
		TBSEVO8160C5	160	100	60	50
		TBSEVO8180C5	180	100	80	50
		TBSEVO8200C5	200	100	100	50
		TBSEVO8220C5	220	100	120	50
		TBSEVO8240C5	240	100	140	50

GEOMETRY AND MECHANICAL CHARACTERISTICS



Nominal diameter	d_1	[mm]	6	8
Head diameter	d_k	[mm]	15,50	19,00
Thread diameter	d_2	[mm]	3,95	5,40
Shank diameter	d_s	[mm]	4,30	5,80
Pre-drilling hole diameter ⁽¹⁾	$d_{v,s}$	[mm]	4,0	5,0
Pre-drilling hole diameter ⁽²⁾	$d_{v,H}$	[mm]	4,0	6,0
Characteristic tensile strength	$f_{tens,k}$	[kN]	11,3	20,1
Characteristic yield moment	$M_{y,k}$	[Nm]	9,5	20,1

⁽¹⁾ Pre-drilling valid for softwood.

⁽²⁾ Pre-drilling valid for hardwood and beech LVL.

			softwood (softwood)	LVL softwood (LVL softwood)	pre-drilled beech LVL (beech LVL predrilled)
Withdrawal resistance parameter	$f_{ax,k}$	[N/mm ²]	11,7	15,0	29,0
Head-pull-through parameter	$f_{head,k}$	[N/mm ²]	10,5	20,0	-
Associated density	ρ_a	[kg/m ³]	350	500	730
Calculation density	ρ_k	[kg/m ³]	≤ 440	410 ÷ 550	590 ÷ 750

For applications with different materials please see ETA-11/0030.

For minimum distances and structural values see TBS EVO on page 102.



LIGHT FRAME & MASS TIMBER

The extensive size range allows a wide variety of applications: from lightweight and lattice frames to the joining of engineered timbers such as LVL and CLT, in the aggressive environments that characterise atmospheric class C5.