

HBS EVO C5

COUNTERSUNK SCREW



C5 ATMOSPHERIC CORROSIVITY

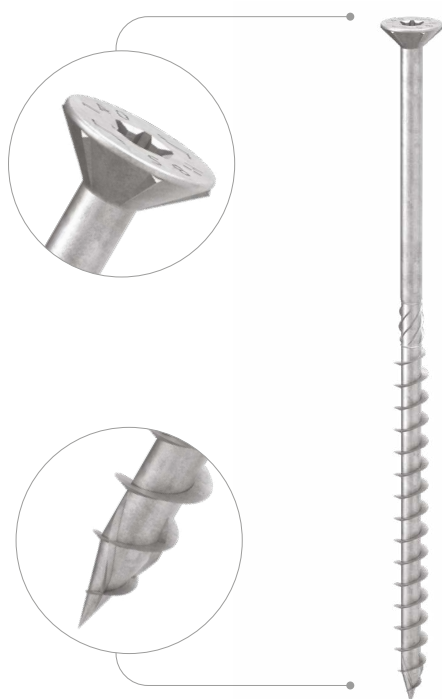
Multi-layer coating capable of withstanding outdoor environments classified C5 according to ISO 9223. SST (Salt Spray Test) with exposure time greater than 3000h carried out on screws previously screwed and unscrewed in Douglas fir timber.

MAXIMUM STRENGTH

It is the screw of choice when high mechanical performance is required under very adverse environmental and wood corrosive conditions.

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, reducing costs and time.



MANUALS



BIT INCLUDED

LENGTH [mm]

3 **3,5** 8 12

DIAMETER [mm]

12 **30** 320 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]	CODE	L [mm]	b [mm]	A [mm]	pcs
3,5 TX 15	HBSEVO3530C5	30	18	12	500
	HBSEVO3540C5	40	18	22	500
4 TX 20	HBSEVO440C5	40	24	16	500
	HBSEVO450C5	50	30	20	400
4,5 TX 20	HBSEVO4550C5	50	30	20	200
	HBSEVO4560C5	60	35	25	200
5 TX 25	HBSEVO550C5	50	24	26	200
	HBSEVO560C5	60	30	30	200
	HBSEVO570C5	70	35	35	100
	HBSEVO580C5	80	40	40	100
	HBSEVO590C5	90	45	45	100
	HBSEVO5100C5	100	50	50	100
	HBSEVO680C5	80	40	40	100
6 TX 30	HBSEVO6100C5	100	50	50	100
	HBSEVO6120C5	120	60	60	100
	HBSEVO6140C5	140	75	65	100
	HBSEVO6160C5	160	75	85	100
	HBSEVO6180C5	180	75	105	100
	HBSEVO6200C5	200	75	125	100

d ₁ [mm]	CODE	L [mm]	b [mm]	A [mm]	pcs
8 TX 40	HBSEVO8100C5	100	52	48	100
	HBSEVO8120C5	120	60	60	100
	HBSEVO8140C5	140	60	80	100
	HBSEVO8160C5	160	80	80	100
	HBSEVO8180C5	180	80	100	100
	HBSEVO8200C5	200	80	120	100
	HBSEVO8220C5	220	80	140	100
	HBSEVO8240C5	240	80	160	100
	HBSEVO8280C5	280	80	200	100
	HBSEVO8320C5	320	100	220	100

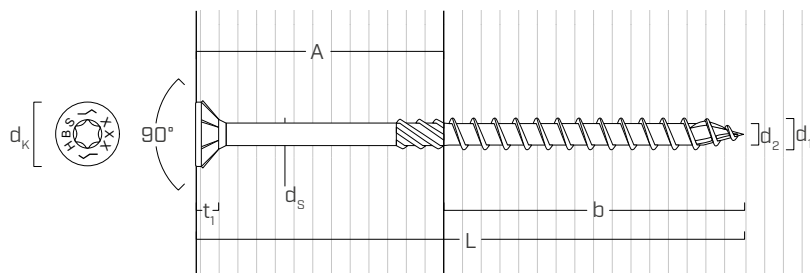
RELATED PRODUCTS



HUS EVO
TURNED WASHER

see page 68

GEOMETRY AND MECHANICAL CHARACTERISTICS



GEOMETRY

Nominal diameter	d ₁	[mm]	3,5	4	4,5	5	6	8
Head diameter	d _K	[mm]	7,00	8,00	9,00	10,00	12,00	14,50
Thread diameter	d ₂	[mm]	2,25	2,55	2,80	3,40	3,95	5,40
Shank diameter	d _S	[mm]	2,45	2,75	3,15	3,65	4,30	5,80
Head thickness	t ₁	[mm]	2,20	2,80	2,80	3,10	4,50	4,50
Pre-drilling hole diameter ⁽¹⁾	d _{V,S}	[mm]	2,0	2,5	2,5	3,0	4,0	5,0
Pre-drilling hole diameter ⁽²⁾	d _{V,H}	[mm]	-	-	-	3,5	4,0	6,0

⁽¹⁾ Pre-drilling valid for softwood.

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

CHARACTERISTIC MECHANICAL PARAMETERS

Nominal diameter	d ₁	[mm]	3,5	4	4,5	5	6	8
Tensile strength	f _{tens,k}	[kN]	3,8	5,0	6,4	7,9	11,3	20,1
Yield moment	M _{y,k}	[Nm]	2,1	3,0	4,1	5,4	9,5	20,1

			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 HBS EVO on page 52.