

VGZ EVO C5

FULLY THREADED SCREW WITH CYLINDRICAL HEAD

C5 ATMOSPHERIC CORROSIVITY

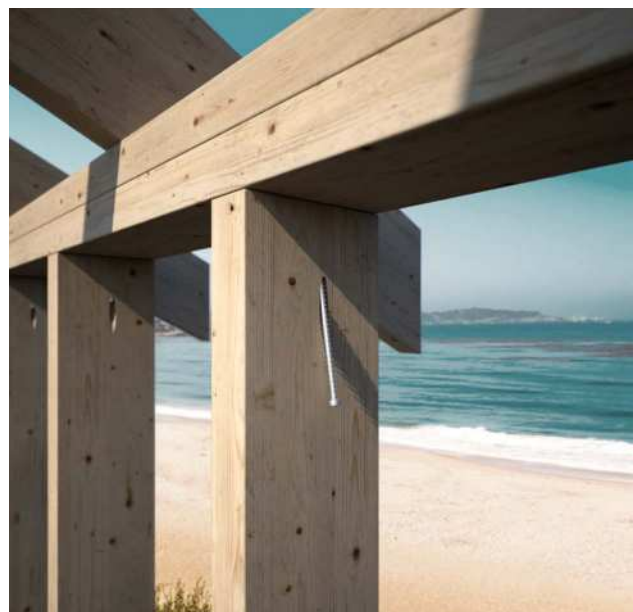
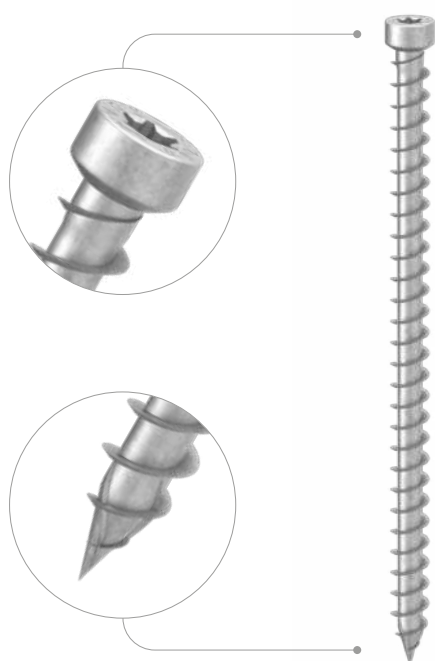
Multi-layer coating capable of withstanding outdoor environments classified C5 according to ISO 9223. Salt Spray Test (SST) with exposure time greater than 3000 h carried out on screws previously screwed and unscrewed in Douglas fir timber.

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.

MAXIMUM STRENGTH

It is the screw of choice if high mechanical performance is required under very adverse atmospheric corrosive conditions. The cylindrical head makes it ideal for concealed joints, timber couplings and structural reinforcements.



DIAMETER [mm]

5 11

LENGTH [mm]

80 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

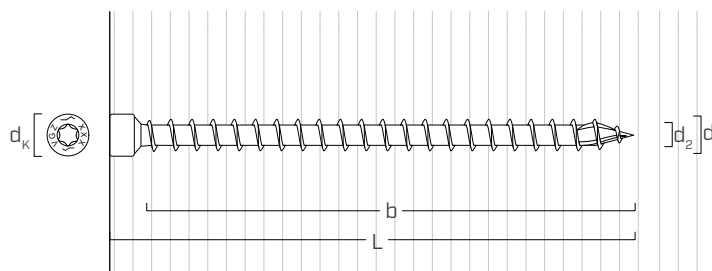
- timber based panels
- solid timber and glulam
- CLT and LVL
- high density woods

CODES AND DIMENSIONS

d_1 [mm]	CODE	L [mm]	b [mm]	pcs
7 TX 30	VGZEVO7140C5	140	130	25
	VGZEVO7180C5	180	170	25
	VGZEVO7220C5	220	210	25
	VGZEVO7260C5	260	250	25
	VGZEVO7300C5	300	290	25

d_1 [mm]	CODE	L [mm]	b [mm]	pcs
9 TX 40	VGZEVO9200C5	200	190	25
	VGZEVO9240C5	240	230	25
	VGZEVO9280C5	280	270	25
	VGZEVO9320C5	320	310	25
	VGZEVO9360C5	360	350	25

GEOMETRY AND MECHANICAL CHARACTERISTICS



GEOMETRY

Nominal diameter	d_1 [mm]	7	9
Head diameter	d_k [mm]	9,50	11,50
Thread diameter	d_2 [mm]	4,60	5,90
Pre-drilling hole diameter ⁽¹⁾	$d_{V,S}$ [mm]	4,0	5,0
Pre-drilling hole diameter ⁽²⁾	$d_{V,H}$ [mm]	5,0	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]	7	9
Tensile strength	$f_{tens,k}$ [kN]	15,4	25,4
Yield strength	$f_{y,k}$ [N/mm ²]	1000	1000
Yield moment	$M_{y,k}$ [Nm]	14,2	27,2

		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
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.



SEASIDE BUILDINGS

Ideal for fastening elements with small cross-sections close to the sea. Certified for application parallel to the grain and with reduced minimum distances.

THE HIGHEST PERFORMANCE

The strength and robustness of a VGZ combined with the best anti-corrosion performance.