

CONNECTOR FOR TIMBER-TO-CONCRETE FLOORS

CERTIFICATION

Timber-to-concrete fastener with specific CE certification according to ETA-19/0244. Tested and calculated with parallel and crossed arrangement of 45° and 30° connectors, with and without wooden planking.

RAPID DRY SYSTEM

Approved, self-drilling, reversible, fast and minimally invasive system. Optimum static and noise performances, both for new projects and structural restoration.

COMPLETE RANGE

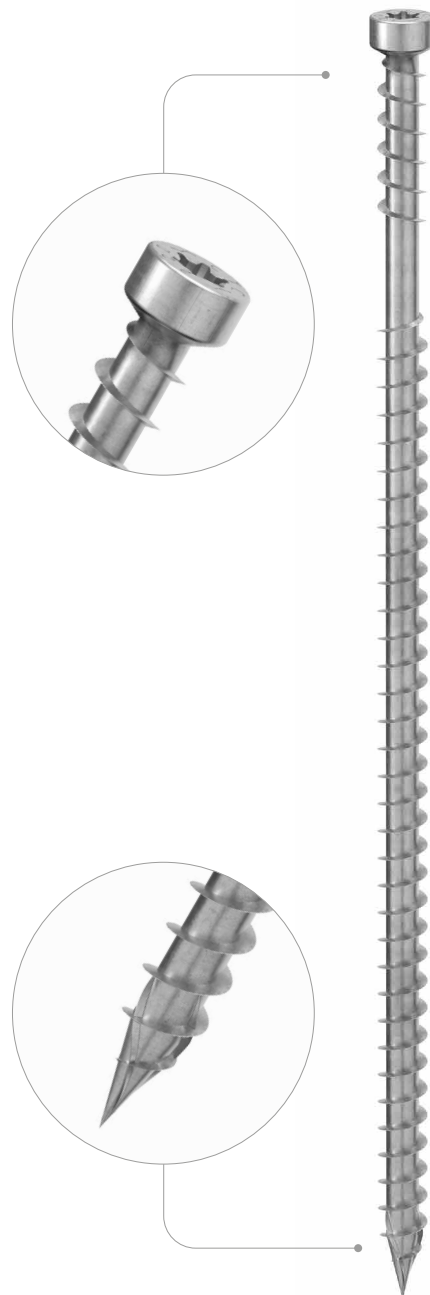
Self-perforating tip with notch and countersunk cylindrical head. Available in two diameters (7 and 9 mm - 0.28 and 0.36 inch) and two lengths (6 1/4" and 9 1/2") to optimize the number of fasteners.

INSTALLATION INDICATOR

During installation, the under head counter-thread serves as correct-installation indicator and increases the fastener tightness inside the concrete.

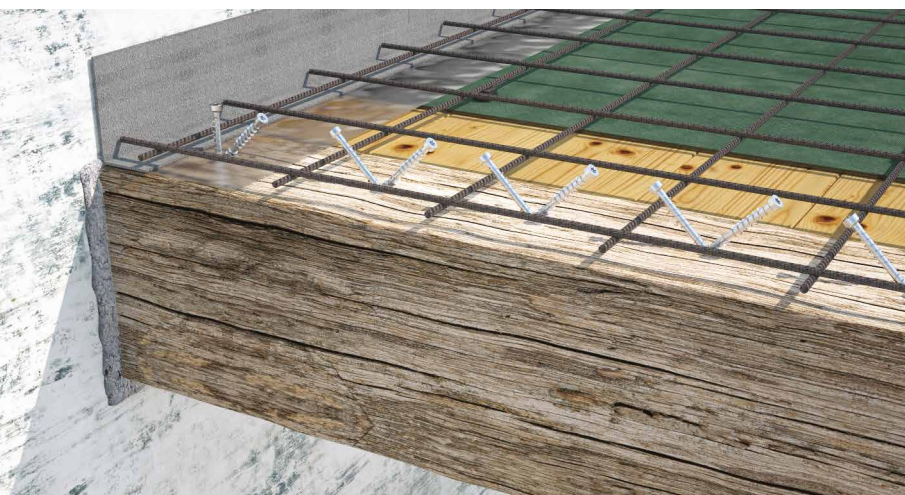


DIAMETER [in]	0.24	0.28	0.36	0.63
LENGTH [in]	2 1/16	6 1/4	9 1/2	15 3/4
EXPOSURE CONDITION	EC1	EC2	EC3	EC4
ATMOSPHERIC CORROSIVITY	C1	C2	C3	C4
WOOD CORROSIVITY	T1	T2	T3	T4
MATERIAL	Zn ELECTRO PLATED electrogalvanized carbon steel			



FIELDS OF USE

- timber based panels
- solid timber
- glulam (Glued Laminated Timber)
- CLT and LVL
- high density woods
- concrete EN 206-1
- lightweight concrete EN 206-1
- silicate-based lightweight concrete



TIMBER-TO-CONCRETE

Ideal for composite floors and for renovation of existing floors. Stiffness values also calculated in the presence of vapour barrier sheet or soundproofing layer.

STRUCTURAL RESTORATION

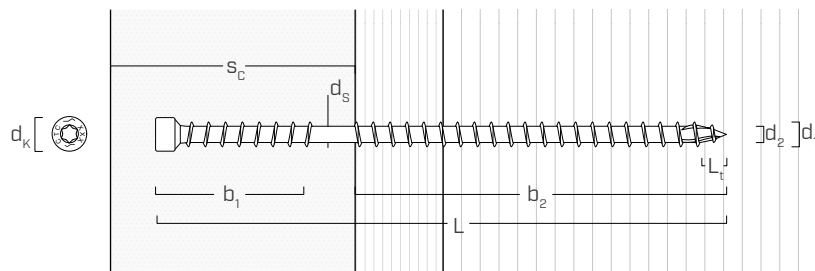
Values also tested, certified and calculated for high density woods. Certification specific for application in timber-concrete structures.

CODES AND DIMENSIONS

d ₁ [mm] [in]	CODE	L		b ₁		b ₂		pcs
		[mm]	[in]	[mm]	[in]	[mm]	[in]	
7 0.28	CTC7160	160	6 1/4	40	1 9/16	110	4 3/8	100
TX 30	CTC7240	240	9 1/2	40	1 9/16	190	7 1/2	100

d ₁ [mm] [in]	CODE	L		b ₁		b ₂		pcs
		[mm]	[in]	[mm]	[in]	[mm]	[in]	
9 0.36	CTC9160	160	6 1/4	40	1 9/16	110	4 3/8	100
TX 40	CTC9240	240	9 1/2	40	1 9/16	190	7 1/2	100

GEOMETRY



Nominal diameter	d ₁	[in] ⁽¹⁾	0.28	0.36
Outer thread diameter	d ₁	[mm] [in]	7 0.276	9 0.354
Head diameter	d _K	[in]	0.374	0.453
Root diameter	d ₂	[in]	0.181	0.232
Shank diameter	d _S	[in]	0.197	0.256
Tip length	L _t	[in]	0.276	0.354
Pre-drilling hole diameter ⁽²⁾	d _{V,G≤0.55}	[in]	5/32	13/64
Pre-drilling hole diameter ⁽³⁾	d _{V,G>0.55}	[in]	13/64	15/64

⁽¹⁾The nominal diameter of the screw is converted into imperial units and rounded up to the nearest decimal point.

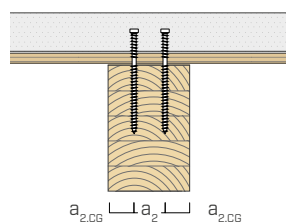
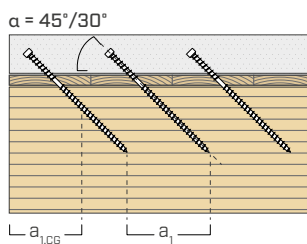
⁽²⁾Pre-drilling applies to wood elements with $G \leq 0.55$.

⁽³⁾Pre-drilling applies to timber with $G > 0.55$.

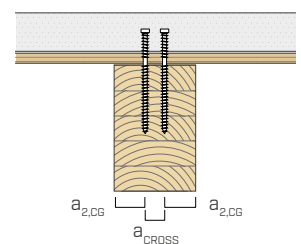
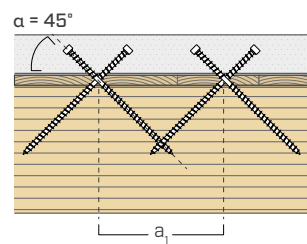
MINIMUM DISTANCES FOR AXIALLY LOADED CONNECTORS

d ₁	[mm]	0.28	0.36
	[mm]	7	9
a ₁	[in]	1.93*sin(α)	2.48*sin(α)
a ₂	[in]	1 1/8	1 3/4
a _{1,CG}	[in]	2 3/4	3 1/2
a _{2,CG}	[in]	1 1/8	1 7/16
a _{CROSS}	[in]	7/16	9/16

α = angle between connector and grain



parallel at 30°/45°



45° crossed