

## 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

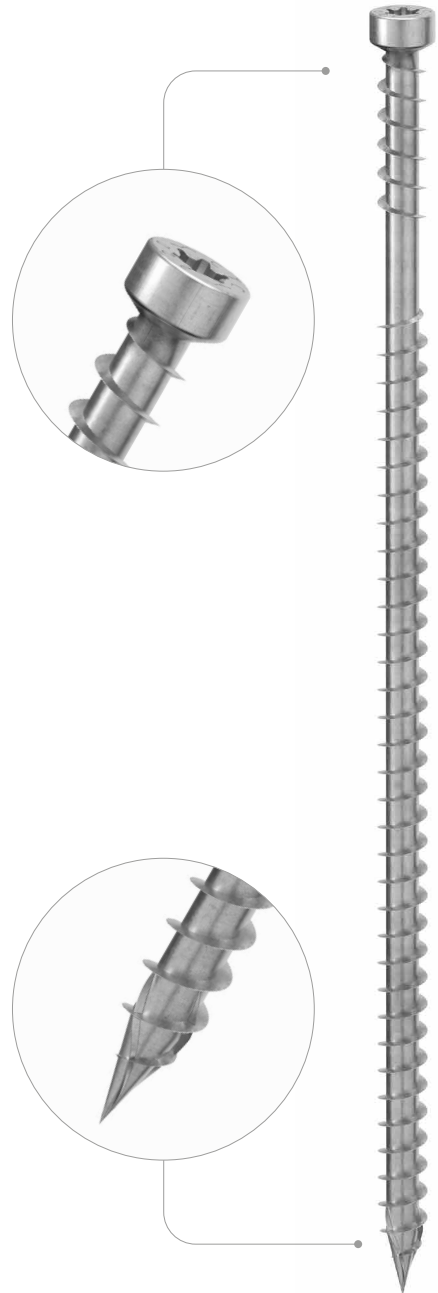
Self-perforating tip with notch and countersunk cylindrical head. Available in two diameters (7 and 9 mm - 0.28 and 0.36 inch) and two lengths (6 1/4" and 9 1/2") to optimize the number of fasteners.

### INSTALLATION INDICATOR

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



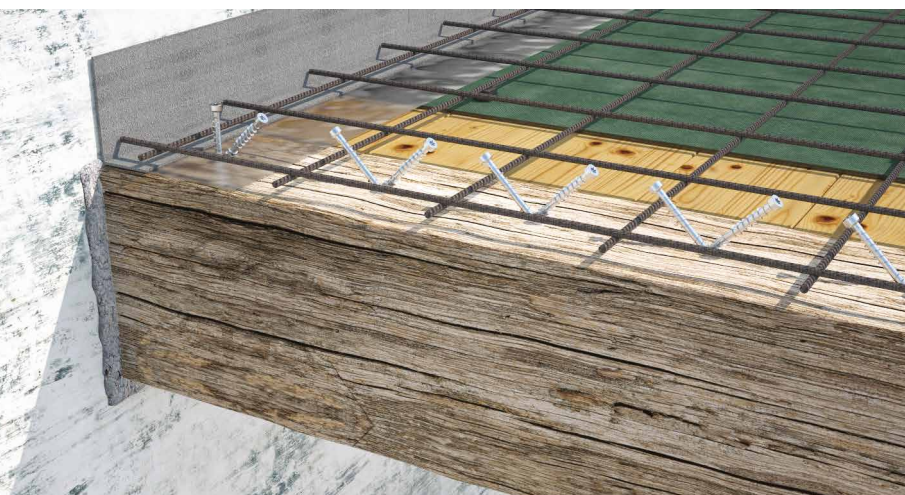
DIAMETER [in]	0.24	<b>0.28</b>	0.36	0.63
LENGTH [in]	2 1/16	6 1/4	<b>9 1/2</b>	15 3/4
EXPOSURE CONDITION	<b>EC1</b>	EC2	EC3	EC4
ATMOSPHERIC CORROSIVITY	<b>C1</b>	C2	C3	C4
WOOD CORROSIVITY	T1	<b>T2</b>	T3	T4
MATERIAL	<b>Zn</b> ELECTRO PLATED electrogalvanized carbon steel			



### 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.

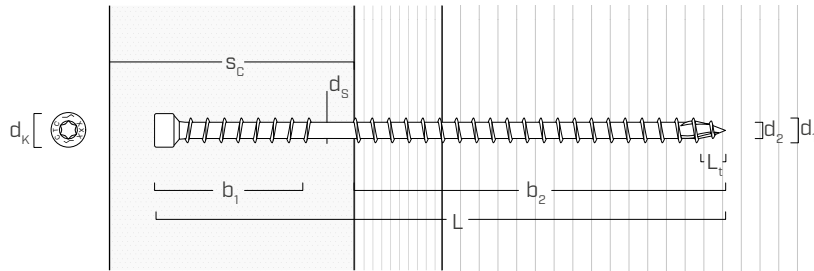


## CODES AND DIMENSIONS

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

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

## GEOMETRY



Nominal diameter	d <sub>1</sub>	[in] <sup>(1)</sup>	0.28	0.36
Outer thread diameter	d <sub>1</sub>	[mm] [in]	7 0.276	9 0.354
Head diameter	d <sub>K</sub>	[in]	0.374	0.453
Root diameter	d <sub>2</sub>	[in]	0.181	0.232
Shank diameter	d <sub>S</sub>	[in]	0.197	0.256
Tip length	L <sub>t</sub>	[in]	0.276	0.354
Pre-drilling hole diameter <sup>(2)</sup>	d <sub>V,G≤0.55</sub>	[in]	5/32	13/64
Pre-drilling hole diameter <sup>(3)</sup>	d <sub>V,G&gt;0.55</sub>	[in]	13/64	15/64

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

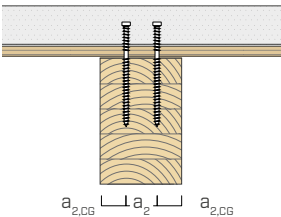
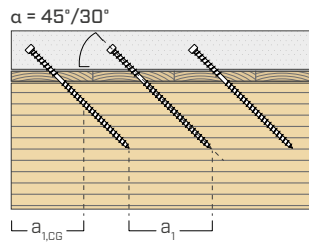
<sup>(2)</sup>Pre-drilling applies to wood elements with  $G \leq 0.55$ .

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

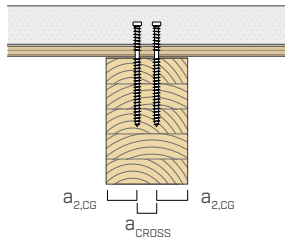
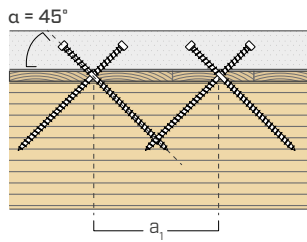
## MINIMUM DISTANCES FOR AXIALLY LOADED CONNECTORS

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

α = angle between connector and grain



parallel at 30°/45°



45° crossed