



DECLARATION OF PERFORMANCE

DoP nr. FM - CT

Connectors for composite floors



1. Identification of the product: **FM-CT**
2. Identification code (art. 11.4), for the batch or serial number see packaging:

d ¹⁾ (mm)	L ²⁾ (mm)	b ³⁾ (mm)	k ⁴⁾ (mm)	H ⁵⁾ (mm)	D ⁶⁾ (mm)	t ⁷⁾ (mm)	Code
8	120	85,5	5,5	40	45	4	05297b08120
12	150	118	8	40	58	5	05297b12150

1) Wood thread diameter; 2) Total length; 3) Wood thread length; 4) Head height; 5) Connector height; 6) Washer diameter; 7) Washer width.

3. Integrated use:

Generic type	The FM - CT screw is intended for use as a component of wood-concrete composite slabs.
Base material	Wooden elements made of glued laminated timber or GL24 glued solid wood according to EN 14080.
Minimum concrete slab thickness	Not less than 50 mm.
Loading	Static and quasi-static.

Characteristics	
Screw material	Galvanised steel (minimum thickness 5 µm according to ISO 4042).
Durability	Corrosion protection in service class 1 and 2 as defined in EN 1995-1-1
Fire resistance	A1 in accordance with EN 13501-1.

4. Manufacturer (art. 11.5): **Friulsider SpA via Trieste, 1 - 33048 San Giovanni al Natisone (UD) – Italy**
5. Authorised representative (art. 12.2): **Not relevant**
6. System of Assessment AVCP (annex V): **System 1**

7/8 Harmonised Specification & Notified Body:

	Name of Body	System of Assessment	Reference	EAD / hEN Document
Technical Specification	ETA-Danmark A/S _[TAB]	1	ETA-24/0906	EAD 130090-00-0303
Constancy of Performance & FPC	ZAG _[NB]	1	1404-CPR-3865	EAD 130090-00-0303

9. Declared Performance: **See Annex**

10. The performance of the product identified by the article codes above under points 1 and 2 is in accordance with the performance declared on page 9. This declaration of performance is issued under the sole responsibility of Friulsider SpA. Signed for and behalf of the manufacturer by:

Function	Nome	Signature	Place and date of issue
Regional Director	Fabrizio Tofoni		San Giovanni al Natisone, 22-05-2025

ANNEX

Properties of the Friulsider FM-CT screw - considering a board thickness of 20 mm			PERFORMANCE	
d	Nominal Diameter	[mm]	8	12
$M_{y,k}$	Yield moment	[Nm]	16,61	66,84
$F_{tens,k}$	Characteristic tensile strength	[kN]	13,64	34,06
$f_{tor,k}$	Characteristic torsional strength	[Nm]	15,66	44,74
$M_{i,k}$	Insertion torque	[Nm]	8,24	37,82
$F_{v,k}$	Characteristic shear resistance	[kN]	6,64	14,83
$f_{ax,k}$	Pull-out resistance characteristic	[MPa]	5,06	7,36
K_{ser}	Slide module	[kN/mm]	4,10	9,47
K_u	Ultimate sliding module	[kN/mm]	2,80	6,26

k_{def} values for wood, concrete and Friulsider FM-CT		
Material	Service class	
	1	2
Cross laminated timber, EN 14080	0,6	0,8

Minimum spacing, end and edge distances for Friulsider FM-CT screw					
Force direction	α	[°]	-	90	90
Diameter	d	[mm]	-	8	12
Fibre-parallel spacing	a_1	[mm]	4d	45	58
Centre distance perpendicular to the grain	a_2	[mm]	$(3+\sin(\alpha)) \times d$	45	58
Distance from the loaded edge parallel to the grain	$a_{3,t}$	[mm]	$(7+5\cos(\alpha)) \times d$	56	84
Distance from the unloaded edge parallel to the grain	$a_{3,c}$	[mm]	7d	56	84
Distance from the loaded edge perpendicular to the grain	$a_{4,t}$	[mm]	$(3+4\sin(\alpha)) \times d$	56	84
Distance from the unloaded edge perpendicular to the grain	$a_{4,c}$	[mm]	3d	24	36