Connector V CEM

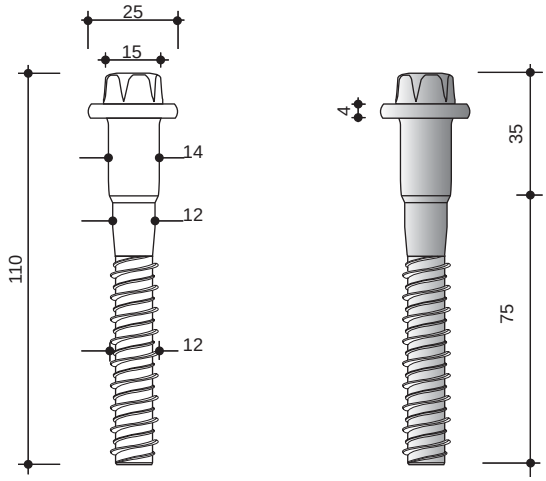
Shank Ø 14 mm - screw Ø 12 mm

This connector offers the quickest form of installation.

The connector comprises a 10.9 steel screw with hi-low thread (lower part) and hexagonal head (upper part).
It is fixed by dry screwing the screw 75 mm, into a specially made hole in the concrete. The head should protrude by 35 mm. Fixing is completely mechanical, as no resins or chemical additives are required. The connection process is therefore fast, economic and clean.

Data Sheet

The **TECNARIA** screws connector used to integrate a new concrete layer with an existing one consists of a Ø 12 mm shank of 10.9 tempered steel with a 60 mm threaded part and a 15 mm hexagonal head with a Ø 25 mm fake washer, for a total lenght of the screw of 110 mm



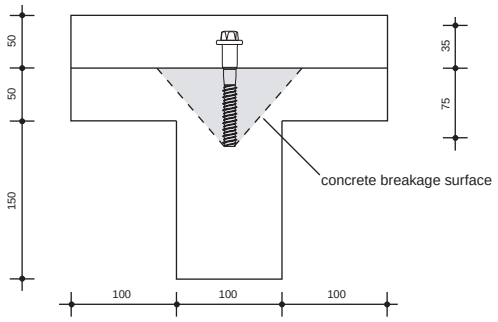
Specifications: Galvanised screw stud connector for concrete casting integration comprising a Ø14 mm shank of 10.9 tempered steel, with 15 mm washer and hexagonal head, and a 60 mm long, Ø 12 mm threaded body, for a total lenght of 110 mm.

Code	Connector height
V CEM 14/035	35 mm

Strength of the V CEM connector

Breaking load mean P_{um}	Breaking load characteristic P_{Rk}	Design load (S.L.U.) P_d	Allowable load (T.A.) P_{adm}
24.7 kN	16.75 kN	13.40 kN	8.93 kN

The table shows the reference values relating to the tests carried out at the Laboratory of Building Science of the University Institute of Architecture in Venice. These tests were carried out according to the procedures indicated in Eurocode 4 EN 1994-1-1. The results shown are for connectors connecting a C25/30 concrete structure with a C25/30 concrete slab. The geometries of the two connected parts are such that the breakage surface of the concrete is not reduced due to thin sections.



Geometry of the tested sample

Installation of the V CEM connector

Remove the existing flooring and strip any covering to the concrete joists. In the case of a floor with concrete topping, locate the joists through special probes. Anchor the connectors on the joists.

Mark the points where the connectors are to be fixed, following the guidelines (fig. 1).
- Drill a hole with an 11 mm bit to a depth of 80 mm (fig. 2).
- Remove the cement dust using a blowing or suction device in the hole (fig. 3).
- Insert the screw in the hole and tighten it all the way with an impulse driver or electric driver with clutch (fig. 4).
- Make sure not to over-tighten the screw (fig. 5)


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