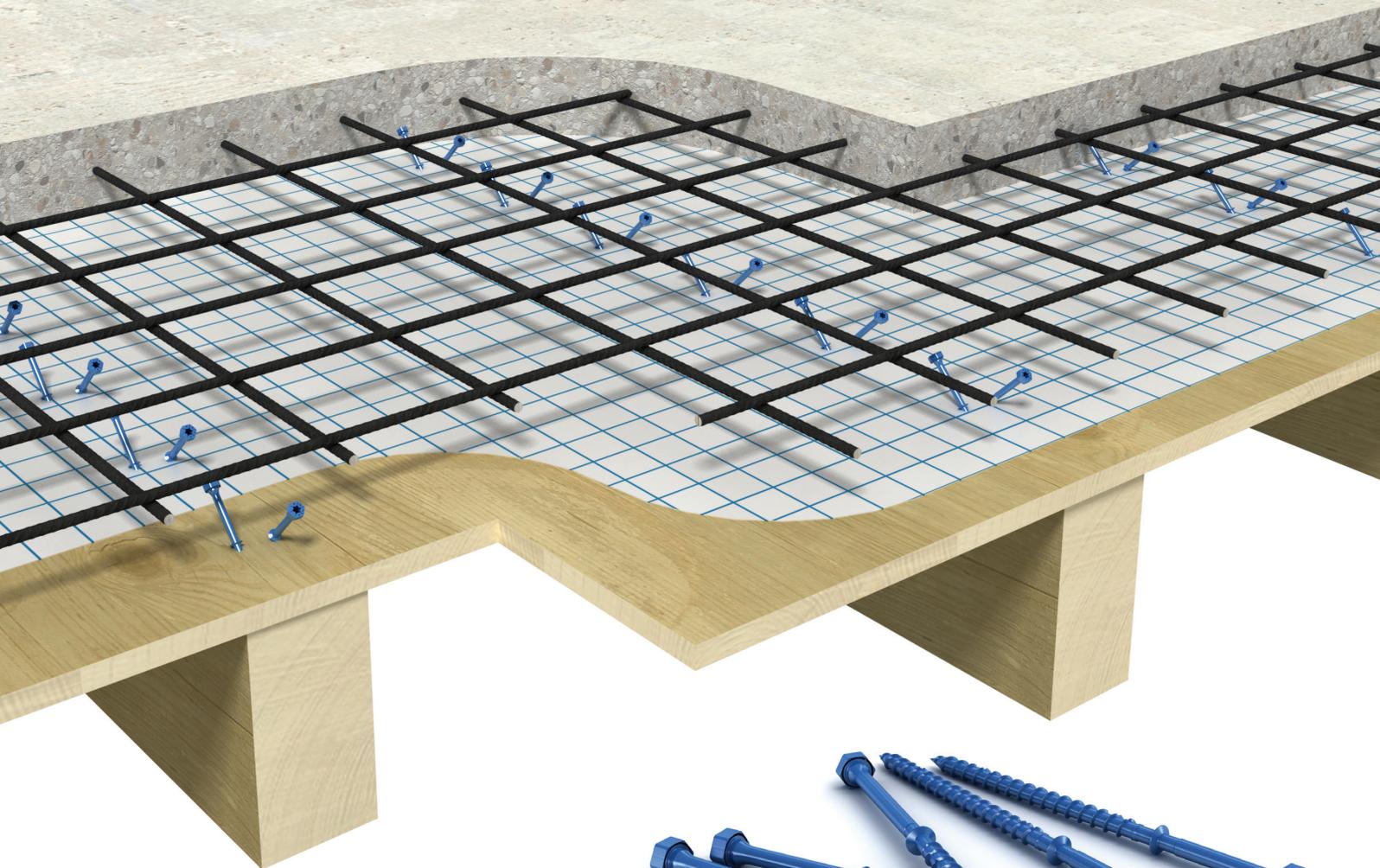


# ACC Composite Connectors

Innovative, ice blue, galvanised steel, self-tapping screws for loadbearing timber-concrete composite floors



- ✓ Ideal for timber floor renovation and strengthening works
- ✓ Suitable for use with modern new-build slab kits
- ✓ CE marked quality/performance assurance (ETA-18/1144)
- ✓ Quick and easy to install, without pre-drilling
- ✓ Available in two lengths (165, 205mm) to suit floorboards up to 50mm (2")
- ✓ Brightly coloured to aid installation supervision on site
- ✓ Integral ring acts as depth limiter and compression bearing
- ✓ Technical advice and calculation services available



CE Declaration of performance available to download at:  
[www.ancon.co.uk](http://www.ancon.co.uk), [www.anconbp.de](http://www.anconbp.de), [www.ancon.at](http://www.ancon.at) and [www.ancon.ch](http://www.ancon.ch)

# Ancon®

# ACC Composite Connectors

The Ancon ACC is a dowel-type fastener providing a shear resistant connection between timber and a concrete layer.

## Timber-Concrete Composite Floors

A timber-concrete composite slab is a proven construction method, popular across Europe in which a new, relatively thin concrete layer, approximately 7 cm deep, is joined to in-situ timber.

Special steel screws are installed into the timber, usually crosswise at angles of 45° and 135° along the line of the joist. These dowel-type fasteners are then cast into the concrete, joining the two materials together and ensuring the floor acts as a high performing homogenous unit.

These composite floors are particularly popular in the renovation market as a simple and effective way of upgrading existing timber floors to current building and safety standards for acoustics, load capacity, thermal performance and fire resistance.

By preserving original timbers, it is a more sustainable solution than taking down and rebuilding, especially in heritage structures where maintaining the building's aesthetics is often an important consideration. It typically proves faster, more economical and less intrusive too, as it minimises construction efforts and does not require access to the space below.

## ACC Composite Connector Range

The Ancon ACC is a blue, galvanised steel, self-tapping screw specially designed for use in the construction of loadbearing timber-concrete composite floors.

It is available in two standard lengths. The 205mm length is suitable for use with conventional ceiling timbers and modern slab kits, with a maximum timber floorboard thickness of 50mm (2") between the timber joist and concrete. The 165mm length is ideal for renovations involving traditional 'doppelbaumdecken', common in and around Vienna.

The sharp point and coarse thread makes the ACC quick and easy to install. No pre-drilling of timber is required.

The shank features an integral ring designed as a depth limiter to prevent over-embedding in the timber. It also acts as a compression bearing in crosswise applications.

Ancon holds European Technical Assessment ETA-18/1144 for its ACC composite connector allowing the product to carry the trusted CE mark.

## Trust our CE Marking

There are a number of controls in place to safeguard the reliability and accuracy of the Ancon ACC CE Declaration of Performance.

The CE mark on Ancon Composite Connectors confirms:

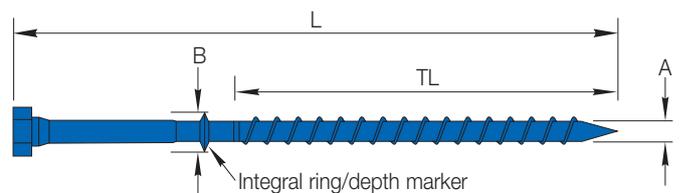
- ✓ Initial third party product testing and analysis
- ✓ Third party inspection of manufacturing plant and production controls
- ✓ Third party continuous surveillance of manufacturing controls
- ✓ Routine testing of products in accordance with third party approved prescribed test plan
- ✓ Batch controls with full material traceability

## Technical Advice and Calculation Services

Contact Ancon to discuss the suitability of a timber-concrete composite floor on your next project. Calculation software is available to aid structural engineers with a system design. The software also generates an installation layout for the on site installer.

Ancon staff are available to advise on the correct specification and installation of ACC composite connectors.

A design sheet is available online or on request to capture all necessary calculation inputs to enable a project-specific design to be generated.



Product Reference	Floorboard Depth (mm)	Overall Length L (mm)	Thread Length TL (mm)	Diameter A (mm)	Diameter B (mm)	Pack Size
ACC8.0 x 165	0-30	165	100	8	10	300
ACC8.0 x 205	30-50	205	130	8	10	300



# Ancon®

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