



FIBRE*fon*[®] **21C**

Composite Acoustic Overlay Floorboard for Concrete Floor Applications

- ⬡ Installation guidelines
- ⬡ Proven constructions
- ⬡ Technical data sheets
- ⬡ Top tips



INSTALLATION GUIDE

FIBREfon 21C

June 2019

Storage of FIBREfon 21C

FIBREfon 21C should be stored on a pallet in dry conditions on a dry, flat and level base.

If you are required to re-stack the **21C**, we advise that the boards are stored on a pallet or are fully supported from the underside. Care should be taken not to damage the edges of the board whilst re-stacking.



FIBREfon 21C is supplied on pallets, wrapped in temporary protection. This covering is to offer dust protection and is a temporary measure to protect the boards from the weather during the loading/unloading process, it is **not** a waterproof cover.

FIBREfon 21C is an internal product and should remain dry at all times. If the product is to be temporarily stored outside appropriate measures are required to protect the boards from moisture, such as a suitable waterproof tarpaulin or sheeting.

The stacking of **FIBREfon 21C** on their edges, should be avoided as this can lead to damage of the tongue and/or groove.

Prior to installation, **FIBREfon 21C** should be left to acclimatise for 24 hours in the installation space, remove the temporary packaging for this process.



Moisture Damage

The chipboard facing of **FIBREfon 21C** is a P5 moisture resistant chipboard, however, chipboard when wet can swell and will not return to its original shape. Therefore great care must be taken to not allow the boards to become wet.

Should the boards become saturated during storage or in-situ, we strongly advise contacting our technical department to arrange a site survey to review the products suitability or replacing the boards.



Attention should be paid to all health & safety regulations. For Safety Data Sheets please contact the technical department. **CELLECTA** is constantly reviewing all of its guidance and best practices and therefore reserve the right to alter specifications and guidance at any time and without notice.



The information contained in this document is based on **CELLECTA**'s experience and represents best practices at the time of writing, this document does not act as a Guarantee of the product or its performance.

FIBREfon 21C

June 2019

1. Pre-Installation

Before commencing installation, take time to familiarise yourself with the products and installation instructions. To complete the installation you will need the following items:

-  FIBREfon 21C boards
-  CELLECTA fon Adhesive
-  YELOfon ES5/60 edge strip
-  Tape measure
-  Hand or circular saw

2. Sub-Floor Preparation

Prior to installing the **FIBREfon 21C**, ensure that the substrate is level and structurally sound. The floor should have a tolerance of at least SR2, this equates to a maximum 5mm gap over a two metre straight edge.

A concrete floor should have a maximum relative humidity of 75% or lower when measured in accordance with BS8203. If this level is not reached a DPM should be designed in. Please seek the advice of a specialist if deemed necessary.

3. Levelling Subfloors

Concrete floors can be levelled using **CELLECTA's RL24** levelling compound. Begin by priming and sealing the floor using **CELLECTA Primer** to the clean dry surface using a long handled foam roller and bucket - do not pour directly onto the floor. On highly absorbent surfaces where the primer soaks in quickly, apply a second coat approximately 30 minutes after the first. Allow to thoroughly dry (approx 2-4 hours).

In a clean container, mix **CELLECTA RL24** in a ratio of 25kg dry powder to 6 litres of clean water into a smooth and lump free consistency (ratio to be maintained for part quantities).

Using a smoothing trowel, apply to the prepared surface to the required thickness. Allow to fully dry before proceeding (24 hours @ 3mm).

4. Installation of FIBREfon 21C

Starting in the far left hand corner of the room, install packers against both walls and install the first **FIBREfon 21C** with the tongue of the short and long side facing the wall, you do not need to remove the tongue of the chipboard.

An expansion gap of 10mm or 2mm per metre run of floor, whichever is greater, should be left against the walls.

TOP TIP - Do not use the **YELOfon FS/ES** in place of packers as this is a compressible material.

Run a bead of **CELLECTA fon Adhesive** along the short groove of the **FIBREfon 21C**. Install the second board with the tongue of the short edge placed into the groove of first board. Ensure the joints are flush and there are no gaps between the boards.

At wall abutments, measure the gap from the laid **FIBREfon 21C** to the wall allowing for an expansion gap as detailed above between the wall and the overlay board.

Using a hand or circular saw cut the **FIBREfon 21C** to the required length in a well ventilated area. Ensure suitable PPE is used when cutting the boards in accordance with the Safety Data Sheet, a copy of which can be supplied upon request.

FIBREfon 21C

June 2019

4. Installation of FIBREfon 21C (continued)

Apply **fon Adhesive** in the groove and install the cut board to complete the row. Ensure there are no gaps between the joints of the board.

Run a bead of **fon Adhesive** along the long edge of the first board of **FIBREfon 21C**. Ensuring the cut is on the outside, use the off cut of **FIBREfon 21C** to begin the next row. Where possible, it is advised that any off cut should be no less than 200mm in width.

Install the remainder of the **21C** in a brick bond formation ensuring all boards are glued and tightly interlocked. It is important that none of the boards are in contact with any walls or door treatments as this can result in acoustic failure. Intermediate gaps (min. 10mm) should be incorporated for floors in excess of 10m long (eg. corridors).

Remove the packing shims from around the **FIBREfon 21C** and install **YELOfon ES5/60** around all perimeters to isolate the **28C** and stop flanking transmission.

Any soil pipes or services that penetrate the **FIBREfon 21C** should be isolated from the board using **YELOfon ES5/60**.

All plasterboard, as well as the skirting boards **must be** isolated from the **FIBREfon 21C** by the **YELOfon** Strip.

Both load bearing walls and non-load bearing partitions must be built off the concrete floor and not the **FIBREfon 21C**. All walls and partitions must then be isolated from the acoustic treatment with flanking strip.

FIBREfon 21C is a floating floor treatment and therefore does not need to be mechanically fixed to the concrete floor. Any mechanical fixings penetrating the **21C** may result in acoustic failure.

Once installation is complete, trim back any excess flanking strip with a sharp knife prior to the installation of the floor finishes.

Allow the adhesive to fully cure for up to 48 hours prior to trafficking the floor or installing floor finishes.

5. Sanitary Wear & Kitchen Units

All kitchen units and sanitary ware can be built off the concrete floor or **FIBREfon 21C**. Care must be taken to ensure that any mechanical fixings do not penetrate the resilient layer.

If building off the concrete floor ensure a gap is left between units and the acoustic flooring and any floor finish. Seal any gaps with a suitable mastic.

If required raise the height of the sanitary wear or units to suit the finished height of the acoustic flooring and selected floor finish.

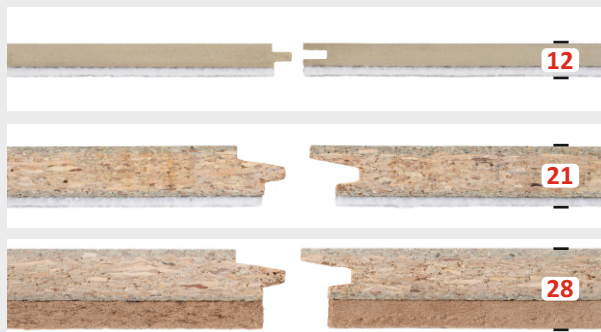
6. Floor Finishes

All floor finishes should be installed in line with the manufacturers official guidance and the relevant British Standards.

Due to the natural thermal expansion of chipboard based products a decoupling layer is highly recommended prior to the installation of sensitive floor finishes, such as vinyl or tiles. For more information contact our technical department on 01634 296677.

FIBREfon® 12C, 21C & 28C

Composite Acoustic Overlay Floorboards for Concrete Floor Applications



Product Information

FIBREfon shallow platform floating floor treatments are Robust Detail FFT 5 compliant, with their acoustic performance third party tested. All three treatments combine a tongue and groove timber floorboard with a high compressive strength resilient layer.

Product Benefits

- Excellent acoustic performance - RD FFT 5 compliant
- Three thickness' available: 12, 21 & 28mm
- Moisture resistant T & G floorboard
- High compressive strength resilient layer
- Quick and easy to install

Technical Information

| | | FIBREfon | | |
|------------------------------------|-------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | | 12C | 21C | 28C |
| Product description | - | Composite acoustic overlay floorboard | Composite acoustic overlay floorboard | Composite acoustic overlay floorboard |
| Overall thickness | mm | 12 | 21 | 28 |
| Type of facing board | - | 9mm MR MDF | 18mm P5 Chipboard | 18mm P5 Chipboard |
| Resilient layer | - | 3mm fleece | 3mm fleece | 10mm woodfibre |
| Board dimensions | mm | 600 x 2400 | 600 x 2400 | 600 x 2400 |
| Weight | kg/m ² kg/board | 6.95 11.00 | 13.10 18.88 | 14.10 20.30 |
| Associated flanking strip required | - | YELOfon FS15 | YELOfon FS30 | YELOfon FS30 |

Third Party Accreditation and Approvals



Environmental Credentials



Ancillary Items



YELOfon FS 6mm thick, non-cross linked, closed cell polyethylene, "L" profiled perimeter flanking strips.

Strip dimensions:

FS15: 6mm x 15mm x 30mm x 2m

FS30: 6mm x 30mm x 30mm x 2m

FS50: 6mm x 50mm x 30mm x 2m



YELOfon ESS 5mm thick, non-cross-linked, closed cell polyethylene, perimeter edge strip.

Roll dimensions:

ESS/15: 5mm x 15mm (h) x 50m

ESS/60: 5mm x 60mm (h) x 50m

ESS/100: 5mm x 100mm (h) x 50m

ESS/120: 5mm x 120mm (h) x 50m

ESS/150: 5mm x 150mm (h) x 50m



CELLECTAfon Adhesive

Application: Bonding timber treatments

Composition: Modified yellow PVA

Size: 1kg bottle

Typical coverage: 33m² of boarding



CELLECTA RL24 Rapid Drying Levelling Screed

Composition: Calcium sulphate compound

Size: 25Kg bag

Coverage: 1.5kg/m² per mm

Drying time: Foot traffic 2 hours @ 3mm

Installation of floor finish: 24 hours @ 3mm (24 hours/mm >3mm)



ScreedBoard Primer

Application: Surface preparation prior to fixing floor tiles

Composition: Low odour acrylic in water dispersion

Size: 5kg bottle

Typical coverage: up to 60m² of boarding

For on the go access to information, including installation videos & technical data, download the **CELLECTA** app for smart phones and tablet devices.

