CELLECTA®

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DECKfon® Batten 70

Resilient Composite Acoustic Battens

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

INSTALLATION GUIDE

Handling & Storage

Storage of DECK*fon*® Battens

DECK*fon*® Battens should be stored on a pallet in dry conditions on a dry, flat and level base.

If you are required to re-stack the battens, we advise that they are stored on a pallet and are fully supported from the underside. Care should be taken not to damage the battens whilst re-stacking.

Pallets of **DECK*fon*® Battens** must not be stacked on top of each other.

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

DECK*fon*® Battens are an internal timber based 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.

DECK*fon*® Battens must be left to acclimatise in the installation location for 48 hours prior to install.

Moisture Damage

Timber battens, when wet can become deformed and may not return to its original shape. Therefore great care must be taken to not allow the battens to become wet.

Should the battens become saturated during storage or in-situ, we strongly advise contacting our technical department on 01634 296677 and arranging a site survey to review the products suitability.

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.

Installation Guidelines

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:

- **DECK*fon*® Batten 70**
- **HiDECK® Structural** Boards or chipboard
- **YELO*fon*® Edge Strip**
- Gypsum based board (for timber floors)
- **CELLECTA Pro Adhesive**
- Hand or circular saw
- Tape measure
- Club hammer

Sub-Floor Preparation

Prior to installing the **DECK*fon*® Batten 70**, it is important that the subfloors are dry, level and structurally sound. The floors should be levelled to 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 advise of a specialist if deemed necessary.

Underfloor Heating Systems

If installing underfloor heating systems in between the battens, take time to familiarise yourself with the layout of the pipework and underfloor heating panels. It is important to carry out all required tests on the underfloor heating system, including pressure testing prior to fixing the overlay board in place. Do not use the underfloor heating to artificially dry any adhesive.

Please contact our technical team for further advise on load capabilities, heat outputs or acoustic performance on 01634 296677.

Installation of Battens

Starting in the far left hand corner of the room, install **DECK*fon*® Batten 70** foam side down, around the perimeter of the room, leaving a 50mm gap between the batten and the walls.

Place subsequent rows of **DECK*fon*® Battens** across the floor at a **maximum** of 400mm centres under **HiDECK® Structural** or 18mm chipboard. If installing 22mm chipboard over the battens these can be installed at a maximum of 600mm centres. Install any mineral wool required between the rows of battens.

For services that need to run through the floor ensure the batten is not in contact with the pipe. Battens must not be notched out for services and these should be positioned at least 150mm away from the wall to avoid clashing with the perimeter batten.

Ensure any services will not come in contact with the board once it is installed on the battens - if registering for ***Robust Detail*** the gap between the subfloor and overlay board must be a minimum 70mm when the floor is loaded to 25kg/m² in accordance with the ***Robust Detail*** handbook.

Overlay Board Installation

Install your overlay board at a 90 degree angle to the **DECK*fon*® Batten 70** and in a staggered formation, all joints should be staggered by a minimum of 150mm.

HiDECK® Structural

If installing **HiDECK® Structural** over the top of the **DECK*fon*® Batten 70** system refer to the **HiDECK®** installation guide found on our website or by contacting our technical department.

Gypsum Plank (for timber floors only)

For timber floors install a layer of gypsum plank onto the battens, beneath the chipboard. This should be laid at a 90 degree angle to the battens and glued to the top of the board utilising **CELLECTA Pro Adhesive**.

Ensure that a 10mm expansion gap is left around the perimeter of the room and that all short edges of the board are supported by **DECK*fon*® Batten 70.** An intermediate batten can be utilised where a short joint does not naturally fall on the **DECK*fon*® Batten 70**.

Chipboard
When installing chipboard over the gypsum plank, all joints should be staggered by at least 150mm.

Utilsing CELLECTA ***Fon* Adhesive**, ensure that all joints are bonded, with the short edge of the board supported by a timber batten. An intermediate batten can be utilised where a short joint does not naturally fall on the **DECK*fon*® Batten 70**.

Fix chipboard in place with appropriate screws or annular ringed shank nails.

Ensure that suitable expansion joints are allowed for around the edge of the room or in long corridors, please speak to CELLECTA's technical department or the chipboard manufacturer for further details.

Both the edge(s) of the overlay board and skirting boards must be isolated from the wall treatment with **YELO*fon*® Edge Strip**. Failure to do so will result in acoustic failure.

Partitions and thresholds
Any internal partitions built off the subfloor must be isolated from the floor treatment using the **YELO*fon*® Edge Strip**. Should lightweight, non-loadbearing partitions be build off the acoustic treatment, battens should be doubled up underneath.

At a door threshold, place one batten under the leading edge of the apartments floor deck and one under the communal areas floor deck, leaving a 5mm (min) gap between the overlay board. Ensure that any detail complies with the regulations set out in **Part B of building regulations (Fire Safety)**.

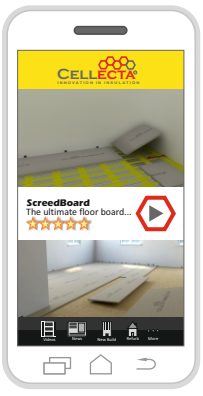
Sanitary Wear & Kitchen Units
Under high load areas, such as kitchen or bathrooms, bring the centres of the **DECK*fon*® Batten 70** in to create a 300mm x 300mm grid. Should it be deemed necessary please seek further loading advise from a structural engineer.

Need more installation help on site?

FREE services offered by CELLECTA:

- Technical and installation advice
- Architectural drawings and NBS specs
- U-value and imposed load calculations
- Site surveys and take-off service
- Arrange acoustic testing
- Present RIBA certified CPDs

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



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DECK*fon*® Batten 45 & 70

Resilient Composite Acoustic Battens

Product Information

DECK*fon*® acoustic battens consist of a layer of recycled, low resonance, open-cell, flexible polyurethane foam bonded to a FSC®/PEFC® certified timber batten. The battens have been rigorously tested, and are Robust Detail compliant for steel, concrete & timber separating floor applications.

Product Benefits

- Outstanding acoustic performance
  Robust Detail **FFT1** & **3** compliant
- Suitable for all types of separating floors
- Two heights available: 45 & 70mm*
- FSC®/PEFC® certified timber batten

Technical Data

		DECK*fon*®	
		Batten 45	Batten 70
Product description	-	Resilient composite shallow batten	Resilient composite deep batten
Design height* (when loaded to 25kg/m²)	mm	**45**	**70**
Pre-loaded height	mm	50	75
Batten dimensions	mm	45 (wide) x 2400 (long)	45 (wide) x 2400 (long)
Resilient layer	-	10mm open-cell polyurethane foam	10mm open-cell polyurethane foam
Weight	kg/lm kg/length	0.80 1.92	1.57 3.77
Associated flanking strip required	-	**YELO*fon* ES5/100**	**YELO*fon* ES5/120**

Third Party Accreditation and Approvals

RD Compliant Treatment; NHBC LABC warranty Premier Guarantee Accepted; bmtrada 2015; SRL Performance Tested

Environmental Credentials

"Look for FSC Certified Products"

GWP <5; 100% Recycled Foam; PEFC Certified; FSC; The mark of responsible forestry

HiDECK® Structural 25, 28 & 30

High Conductivity Structural Floorboard

Product Information

CELLECTA's **HiDECK® Structural** is a highly conductive structural floorboard ideal for acoustic batten & cradle and batten applications incorporating an underfloor heating system. The board's rapid heat transfer characteristics enables an UFH system to operate more efficiently, providing long term running cost savings.

Product Benefits

- Outstanding acoustic and fire performance
- Robust Detail proprietary floorboard for **FFT1**, **2** & **3**
- Low thermal resistance - Perfect for UFH applications
- Suitable for steel, concrete and timber floors
- Directly accepts all types of floor covering, inc. tiles

Technical Data

		HiDECK® Structural		
		25	28	30
Product description	-	Tongue and groove, high density gypsum, low thermal resistance structural floorboard		
Thickness'	mm	**25**	**28**	**30**
Thermal resistance	m^2K/W	0.0625	0.070	0.075
Bearing spacing (45mm wide)	mm	400 (max) centers	400 (max) centers	400 (max) centers
Board dimensions	mm	600 x 1200	600 x 1200	600 x 1200
Weight	kg/m² kg/board	31.25 22.50	35.00 25.20	37.50 27.00
Associated flanking strip required	-	**YELO*fon* ES5/120**	**YELO*fon* ES5/120**	**YELO*fon* ES5/120**

Third Party Accreditation and Approvals

RD Proprietary Component; NHBC LABC warranty Premier Guarantee Accepted; bmtrada 2015; SRL Performance Tested

Environmental Credentials

GWP <5; 100% Recycled Gypsum; zero ODP; CLASS A1