

**CELLECTA**<sup>®</sup>

**YELOfon**<sup>®</sup> **HD5**

High Density, Closed-cell Polyethylene Foam








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



**INSTALLATION GUIDE**

## 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:

-  YELOfon® HD5 roll
-  YELOfon® ES10/100
-  HEXATHERM® XFLOOR
-  HG-Tape or high adhesion tape
-  Tape measure
-  Utility Knife
-  Hand Saw

## Sub-Floor Preparation

Prior to installing the **HD5**, sweep up all building debris to ensure that you have a clean concrete floor, free from grease and oil.

## Perimeter Edge Strips

Place the **YELOfon® ES10/100** around the perimeter of the room ensuring that all walls built off the slab are included. Use a small amount of tape to keep the edge strip in place.

Tightly butt and tape any joints between the **YELOfon® ES10/100** to ensure no screed can come into contact with the wall.

## Installation of HEXATHERM® XFLOOR

Install the **HEXATHERM® XFLOOR** across the entire floor. At the end of the run, carefully measure and cut the board with a hand saw and use the off cut to start the next row. The **XFLOOR** should be laid in a brick-bond formation.

## Installation of YELOfon® HD5

Roll out the **HD5** across the floor cutting where required with a utility knife. Where two joints of the **HD5** meet, overlap the resilient layer by 150mm (min) and seal with **HG-Tape** to alleviate the risk of screed migration. If installing the **HD5** below the **XFLOOR** or utilising a DPM over the **HD5** then taping of the joints is not required.

In this scenario it is strongly advised that you cover the **HD5** with a minimum 500 gauge polythene sheet, taping all joints and lapping around the perimeter by 150mm.

Ensure that the **HD5** laps up the **YELOfon® ES10/100** and with enough of an overlap to isolate the skirting board and any drylining from the wall detail

## Soil Pipes and Services

Soil pipes and services that penetrate through the **HD5** must be isolated from the screed. Carefully wrap the penetration in **YELOfon® ES10/100** and seal the joint using the **HG-Tape**.

Services running across the floor should be secured to the slab with straps and covered with **HD5**. Alternatively, they can be laid over the **XFLOOR** and held in place using **HG Tape** until the screed is installed. It is imperative that any services installed on the **HD5** are **not** fixed through the resilient layer.

Any services that penetrate the **HD5** must be isolated following the instructions above for soil pipes.

## Doorways & Thresholds

Follow the detail for external walls (section 1) under all door frames to eliminate the risk of acoustic flanking. At the threshold between apartments and communal areas or stairwells, fix a timber batten across the door opening to act as a “stop” and install **ES10/100** and **HD5**. Trim off excess strip with a sharp knife.

## Wall Linings

Once the **HD5** installation is complete and all walls, services and thresholds are isolated to ensure no flanking path for sound, install the screed in accordance with the manufacturers instructions and allow to cure.

The top of the **HD5** can now be folded down and taped to the screed so that dry lining can take place. Ensure that all wall treatments, including plasterboard, plaster, plaster adhesive and skirting boards are sat on the **HD5** and not in contact with the screed.

***PLEASE NOTE*** - Any wall treatments that come into contact with the screed may result in adverse acoustic performance.

Once the wall treatment is fully installed, trim back any excess **HD5** to allow for the floor finish to be installed.

## Underfloor Heating Systems

If utilising a wet underfloor heating system then install the **HD5** prior to the **XFLOOR**. The **HD5** can be tightly butt jointed and taped without overlap, before utilising the **XFLOOR** to secure the underfloor heating pipes to form a thermal barrier.

If installing an electric underfloor heating mat, please contact our technical department for further advise on 01634 296677.

Care must be taken to ensure the clips holding the underfloor heating system **DO NOT** penetrate the **HD5**.

**NOTE** - 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.

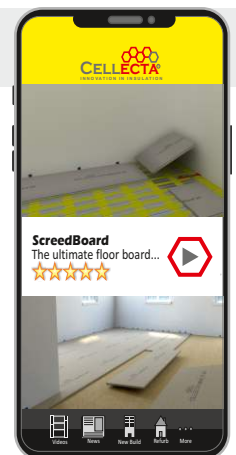
The information contained in this document is based on **CELLECTA's** experience and represents best practices at the time of writing. This document does not act as a Guarantee of the product or its performance.

## 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 CPD's

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



## YELOfon® HD5

High Density, Closed-cell Polyethylene Foam



### Product Information

YELOfon® HD5 is a lightweight, easy to install, non-cross-linked polyethylene foam, specifically designed to reduce impact noise through concrete floors with a floating screed. The product is **Robust Detail E-FC-8** compliant when used in conjunction with **XFLOOR 250** and **DECKfon® ULTRAlay 5**.

### Product Benefits

- High impact sound deadening properties
- Only 5mm thick
- Easy to cut to size and install
- Ideal for floors incorporating an underfloor heating system

### Technical Data

		YELOfon® HD5
Product description	-	Closed-cell, non-cross-linked resilient layer
Thickness	mm	5
Roll dimensions	m	1.5 x 75
Coverage	m <sup>2</sup>	112.5
Weight	kg/roll	16.88
Thermal conductivity	W/mK	0.045
Long term water absorption	%	<5 (after 28 days)

### Third Party Accreditation and Approvals



### Environmental Credentials



## HEXATHERM® XFLOOR

High Compressive Strength, Closed-Cell Extruded Polystyrene Floorboard



HIGH COMPRESSIVE  
250-500kPa  
STRENGTH XPS

### Product Information

CELLECTA's XFLOOR insulation boards are up to 7x stronger than traditional soft expanded polystyrene (EPS) and typically 2 to 4 times stronger than PIR or Phenolic boards. Their long term resistance to compression makes them ideal for a multitude of residential, commercial, educational and healthcare underfloor heating applications.

### Product Benefits

- Superior compressive strength 250 - 500kPa
- Excellent life-long thermal performance
- Closed cell structure
- Very low water absorption
- 100% Recyclable

### Technical Data

		XFLOOR		
		250	300	500
Product description	-	Closed-cell XPS board	Closed-cell XPS board	Closed-cell XPS board
Strength at 10% compression	kPa	250	300	500
Thermal conductivity	W/mK	0.033	0.033 ≤80mm 0.034 >81mm	0.035
Temperature range	°C	-50/+75	-50/+75	-50/+75
Board size	mm	600 x 2500	600 x 2500	600 x 1250
Thickness' (other sizes manufactured to order)	mm	20, 25, 30, 35	40, 50, 60, 75, 80, 90, 100, 120, 140, 160	50, 60, 75, 80, 100, 120, 140, 160

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