BB/HD10190820
August 2020

CELLECTA®

YELOfon® HD10+ System

UK's No.1 High Performance Under Screed Resilient Layer

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

INSTALLATION GUIDE

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:

- **YELO*fon*® HD10+** roll
- **YELO*fon*® E-Strip**
- **YELO*fon*® J-Strip**
- Tape measure
- Utility Knife

Sub-Floor Preparation

Prior to installing the **HD10+**, sweep up all building debris to ensure that you have a clean concrete floor, free from grease and oil.

Perimeter Edge Strips

Remove the protective backing from the self adhesive strip on the reverse of the **YELO*fon*® E-Strip** and install around the perimeter of the room with the bottom 60mm flange sitting on the floor.

For your convenience, the direction of installation is printed on the **E-Strip,** please ensure that this is installed with the arrow pointing upwards.

In the corners of the room, mitre the bottom and top flange to allow them to fold in at an angle to suit the corner of the room, this will mean that the edge strip **does not** overlap each other.

Installation of HD10+

Ensuring a 40mm (min) overlap, install the **HD10+** over the bottom flange of the perimeter edge strip with writing and diagrams facing upwards and seal the joint with the **J-Strip** provided.

Continue to roll out the **HD10+** across the floor cutting where required with a utility knife. Where two joints of the **HD10+** meet, overlap the resilient layer by 150mm (min) and seal with **J-Strip** to alleviate the risk of screed migration.

If installing a proprietary free flowing screed, **HD10+** rolls can be tightly butted together and the joint sealed with **J-Strip**. Care should be taken to ensure there are no gaps in the resilient layer. In this scenario it is strongly advised that you cover the **HD10+** with a minimum 500 gauge polythene sheet, taping all joints and lapping around the perimeter by 150mm.

Soil Pipes and Services

Soil pipes and services that penetrate through the **HD10+** must be isolated from the screed. Carefully wrap the penetration in **E-Strip** and seal the joint using the **J-Strip** provided.

Services running across the floor should be secured to the slab with straps and covered with **HD10+.** Alternatively, they can be laid over the **HD10+** and held in place using **J-Strip** until the screed is installed. It is imperative that any services installed on the **HD10+** are **not** fixed through to the slab.

Any services that penetrate the **HD10+** must be isolated following the instructions above for Soil Pipes.

Doorways & Thresholds

Ensure **E-Strip** goes 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 stick the **E-Strip** to it. Trim off excess strip with a sharp knife.

Internal Partitions

Should partitions be built off the sub-floor, install the **E-Strip** to the partition, overlap the **HD10+** and seal all joints and gaps with **J-Strip.**

Doorways & Thresholds

Ensure **E-Strip** goes 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 stick the **E-Strip** to it. Trim off excess strip with a sharp knife.

Internal Partitions

Should partitions be built off the sub-floor, install the **E-Strip** to the partition, overlap the **HD10+** and seal all joints and gaps with **J-Strip.**

Wall Linings

Once the **HD10+** 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 **E-Strip** 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 **E-Strip** and not in contact with the screed. Once the wall treatment is fully installed, trim back any excess **E-Strip** to allow for the floor finish to be installed.

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

Underfloor Heating Systems

If utilising a wet underfloor heating system embedded in the screed then the **HD10+** can be tightly butt jointed and taped using **J-Strip** before installing a thermal insulation such as **HEXATHERM® XFLOOR** to secure the underfloor heating pipes to.
Care must be taken to ensure the clips holding the underfloor heating system **DO NOT** penetrate the **HD10+.**

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

Thermal Void Former

Should a layer of thermal insulation be required to meet the thermal requirements of Part L or to act as a void former, CELLECTA recommends that this is installed directly on the slab, with **HD10+** installed above the thermal board. This will ensure that the **E-Strip** detail around the perimeter can be followed and minimise the risk of flanking transmission.

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.

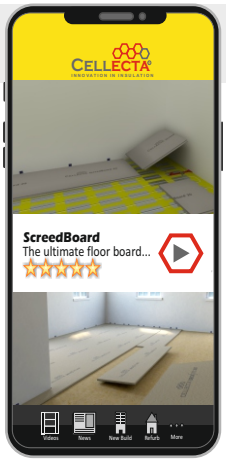
The information contained in this document is based on CELLECTA's experience and represents best practices at the time of writing. This document does not act as a Guarantee of the product or its performance.

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.



YELO*fon*® HD10+ *System*

UK's No.1 High Performance Under Screed Resilient Layer

Over 12,500,000m² successfully installed

Product Information

YELO*fon*® HD10+ is an acclaimed resilient layer system that carries 3 proprietary Robust Details: **E-FC-5**, **17** & **18**. The *System* is lightweight, easy to install and delivers unrivalled acoustic performance when used to isolate a floating screed from a structural concrete floor.

Product Benefits

- Superior impact sound deadening properties
- Suitable for all types of concrete floors and screeds
- Supplied as a kit with 1 x E-strip and 2 x J-strips included
- Lightweight, easy to handle and install rolls
- Works in conjunction with underfloor heating

		YELO*fon*® HD10+ *System*		
		HD10+	E-strip	J-strip
Product description	-	*Surebond* faced resilient layer	Perimeter edge strip	Acoustic jointing tape
Thickness	mm	**10**	**7**	**2.5**
Roll dimensions	-	1.5m x 33.33m	200mm x 33.33m	75mm x 40m
Coverage	m²	50	N/A	N/A
Weight	kg/roll	18.0	1.75	0.54
Thermal conductivity	W/mK	0.045	0.045	0.037
Long term water absorption	%	<5 (after 28 days)	<5 (after 28 days)	<5 (after 28 days)

Third Party Accreditation and Approvals

RD Proprietary Treatment — NHBC LABC warranty Premier Guarantee Accepted — bmtrada 2015

Environmental Credentials

GWP <5 — 100% Recyclable Foam — zero ODP

HEXATHERM® XFLOOR

High Compressive Strength, Closed-Cell Extruded Polystyrene Floorboard

Product Information

CELLECTA's **XFLOOR** insulation boards are up to 7x stronger that 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

		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**

Third Party Accreditation and Approvals

RD Proprietary Component — NHBC LABC warranty Premier Guarantee Accepted — bmtrada 2015 — Building Insulation Products 0107

Environmental Credentials

GWP <5 — 100% Recyclable XPS — zero ODP

ISO 14001: 2004 BUREAU VERITAS Certification BE 009119-1