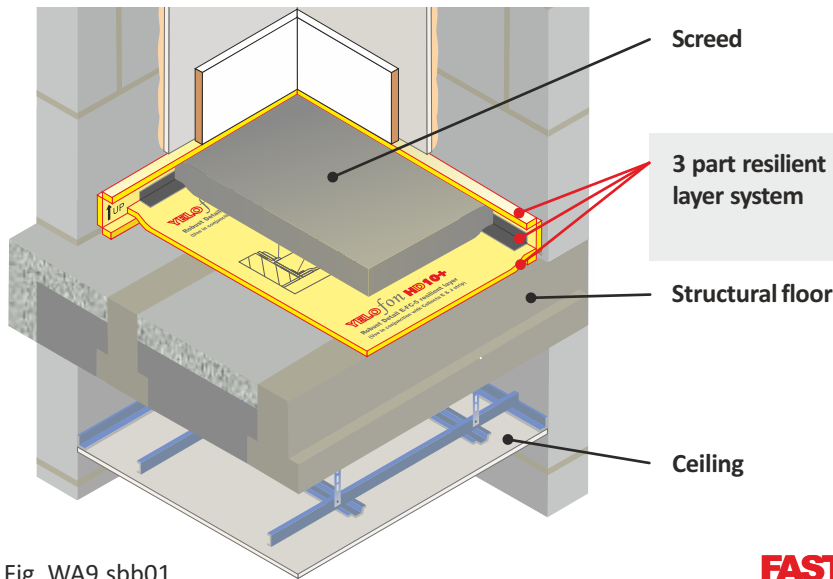


# Separating floor - Modified beam & block

PCT solution to Robust Detail: E-FC-6

Screed laid on **CELLECTA YELOfon HD10+** resilient layer System  
Beam and block floor with precast or in-situ edge beams



- 65mm (min) sand cement screed
- 40mm proprietary screed, nominal 80kg/m<sup>2</sup> mass per unit area

- 3 part resilient layer system**
1. **CELLECTA YELOfon HD10+**
  2. **E-strip** perimeter edge strip and
  3. **J-strip** acoustic joining tape

**Structural floor**  
Beam and block, min 100mm thick dense aggregate infill blocks, min 50mm concrete topping, min strength class C20, to floor blocks, min 300kg/m<sup>2</sup> (min) combined mass per unit area

**Ceiling**  
See Table WA9.sbb01b for ceiling treatment

Fig. WA9.sbb01



Table WA9.sbb01a

### Installation Options

**Resilient layer under screed**

**YELOfon HD10+**  
High density polyethylene foam with Surebond facing  
Dimensions: 10mm x 1.5m x 33.33m (50m<sup>2</sup>)

**YELOfon J-strip**  
Ultra high grab acoustic jointing tape  
Dimensions: 2.5mm x 75mm x 40m

**YELOfon E-strip**  
Self adhesive perimeter edge strip  
Dimensions: 7mm x 200mm x 33m

**Underfloor heating system within screed (with thermal insulation)**

**FLOOR 250/300/500**  
High compressive strength extruded polystyrene  
Dimensions: 25-160mm x 600mm x 2500mm

Ensure fixing used to secure the UFH do NOT penetrate the HD10+

**Construction notes**  
Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values.  
Wall treatments **MUST** be isolated from the floating floor with YELOfon E-Strip perimeter edge strip.  
Services must not puncture primary ceiling lining (except cables, which should be sealed with flexible sealant).

Table WA9.sbb01b

### Ceiling Treatment Options

**Any metal frame ceiling system providing 75mm (min) ceiling void**

150mm (min)  
75mm (min)

One layer of nominal 10kg/m<sup>2</sup> gypsum-based board

**Timber battens & counter battens**

100mm (min)

One layer of nominal 10kg/m<sup>2</sup> gypsum-based board

**Timber battens & metal resilient bars**

65mm (min)

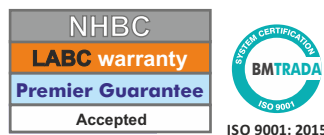
One layer of nominal 10kg/m<sup>2</sup> gypsum-based board

## Acoustic Performance

<b>Airborne:</b> 53dB $D_{nT,w} + C_{tr}$	Building Regulations
<b>Impact:</b> 51dB $L_{nT,w}$	+ 5B

Values quoted are typical and based on the treatment being installed correctly and pre-completion tested (PCT).  
Airborne performance tested in accordance with BS EN ISO 140-4:1998  
Impact performance tested in accordance with BS EN ISO 140-7:1998

## Third Party Accreditation and Approvals

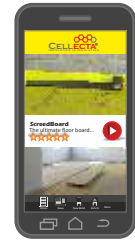


## Environmental Credentials



# Design & installation details - **YELOfon HD10+**

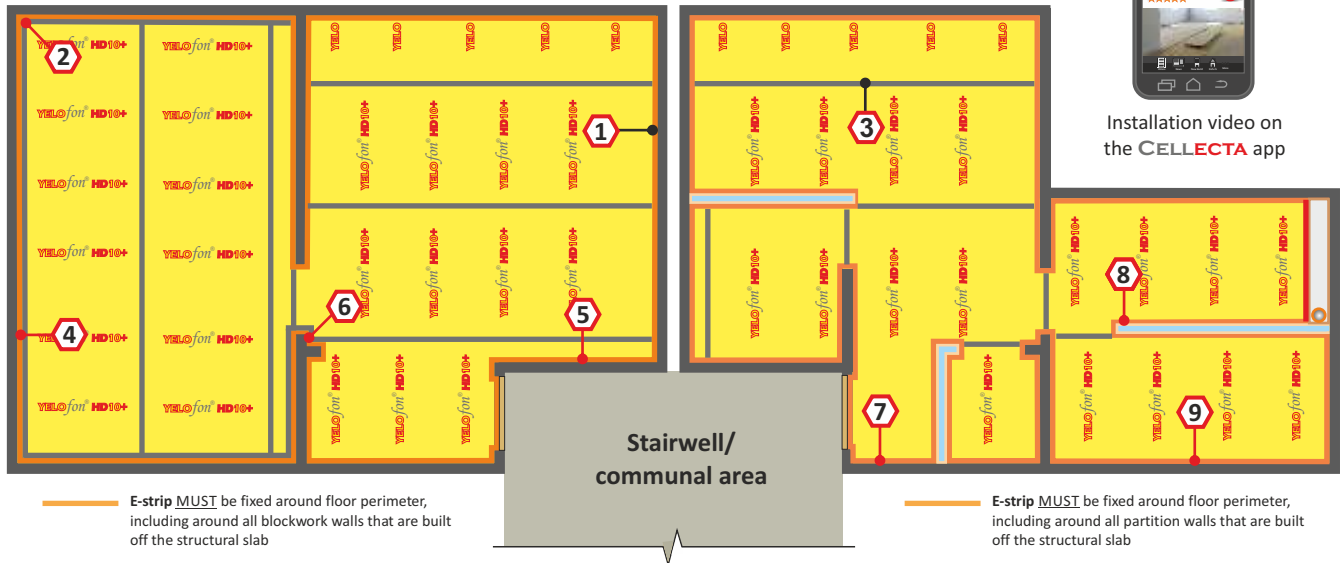
The acoustic performance of the floor will be compromised if the screed is not completely isolated from the structural slab, soil pipes, door frames, the surrounding walls and their treatments. To address this risk, each potential problem area needs to be detailed



Installation video on the CELLECTA app

## Partitions installed off the floor screed

## Partitions installed before the floor finish is laid



### 1 Perimeter detail



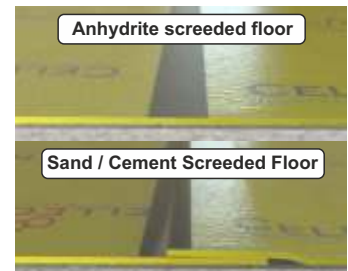
Around the whole floor perimeter stick the **E-strip** to the wall, folding up the bottom flap and overlap with the **HD10+** (by at least 40mm). Seal all joints with **J-strip**.

### 2 Room corners



In corners, mitre the **E-strip's** upper and lower flaps to allow them to fold in. The bottom flap must then be overlapped by the **HD10+** by at least 40mm, with the joint sealed with **J-strip**.

### 3 Joining rolls



**Anhydrite:** Butt joint and seal joint with **J-strip** and cover **HD10+** with 500g polythene sheet.  
**Sand/cement:** Overlap by 150mm and seal joint with **J-strip**.

### 4 Soil pipes



Soil pipes and services that penetrate through the **HD10+** or **E-strip** **MUST** be isolated from the screed by wrapped them in **E-strip** and sealing the joints with **J-strip**.

### 5 Services



Services should be secured to the structural slab with straps and covered with **HD10+**. Alternatively, they can be laid over the **HD10+** and held in position with **J-strip** until the screed is applied. Services that penetrate the resilient layer **MUST** be isolated from the surrounding structure by wrapping them in **E-strip**, and sealing all joints with **J-strip**.

### 6 Doorways



Ensure **E-strip** goes under **ALL** door frames to eliminate the risk of acoustic flanking.

### 7 Thresholds



To stop acoustic flanking at the threshold, 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.

### 8 Partitions



Should partitions be built off the sub-floor, stick the **E-strip** to the partition, folding up its bottom flap. Overlap the **HD10+** and seal all joints and gaps with **J-strip**.

### 9 Wall treatments



Fold down the upper section of the **E-strip** and tape in position. Ensure **ALL** wall treatments including plaster, plasterboards, plaster adhesive and skirting boards are completely isolated from the screed.