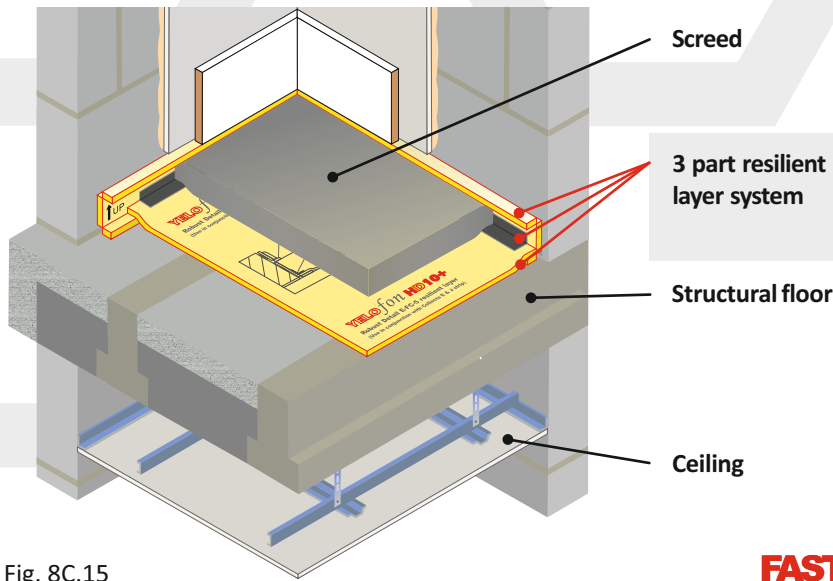


# Separating floor - Modified beam & block

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

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

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

See Table 8C.15b for ceiling treatment options

Fig. 8C.15



Table 8C.15a

### 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 8C.15b

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

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

