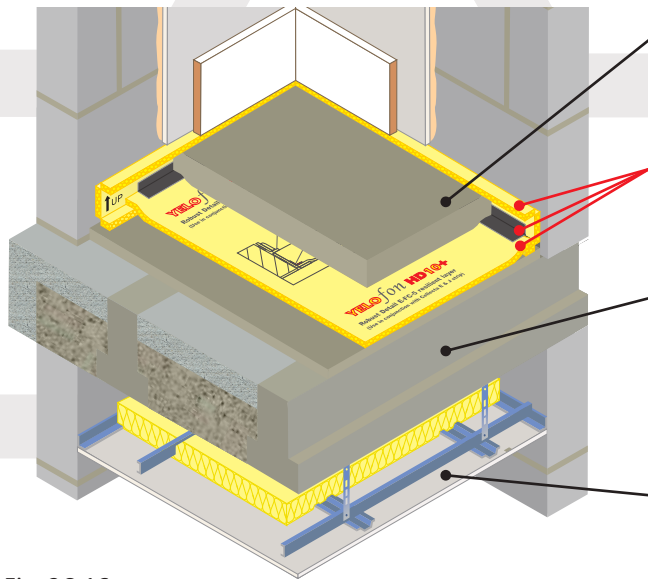


# Modified beam & block separating floor

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



- Floating screed**
  - 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. **YELOfon® E-strip** perimeter edge strip
  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 2C.16b for ceiling treatment

Fig. 2C.16

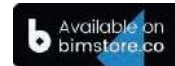


Table 2C.16a

Table 2C.16b

### Installation Options

**Resilient layer system laid 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 joining tape  
Dimensions: 2.5mm x 75mm x 40m
- YELOfon® E-strip**  
Self adhesive perimeter edge strip  
Dimensions: 7mm x 200mm x 33m

**Resilient layer system laid under screed containing underfloor heating system**

- HEXATHERM® XFLOOR 250, 300**  
High performance extruded polystyrene  
Compressive strength: 250, 300kPa  
Dimensions: 250 - 20, 25, 30, 35 x 600 x 2500mm  
300 - 40, 50, 60, 75, 80, 90, 100, 120, 140, 160 x 600 x 2500mm
- UFH water pipe (by others)

**Underfloor heating systems within screed (without thermal insulation)**

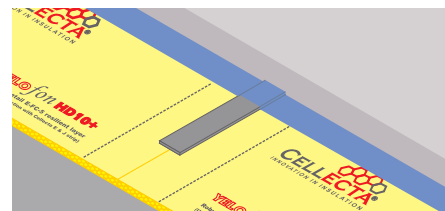
**Proprietary Screeds**  
When using a proprietary free flowing screed, HD10+ rolls can be tightly butted together and the joint sealed with J-strip. Care should be taken to ensure there are no gaps in the resilient layer. Cover the HD10+ with a 500 gauge (min) polythene sheet, taping all joins and lapping up around the perimeter by 150mm.

### Ceiling Treatment Options

Metal frame ceiling system providing an overall depth of not less than 300mm from top of beam and ceiling board

One layer of nominal 10kg/m<sup>2</sup> gypsum-based board 50mm (min) fibre quilt (min 10kg/m<sup>3</sup>) in ceiling void to cover whole ceiling board area

**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**.



## Acoustic Performance

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

