

Steel-concrete composite separating floor

Screed laid on **CELLECTA YELOfon® HD10+** resilient layer *System*
In-situ concrete slab supported by profiled metal deck

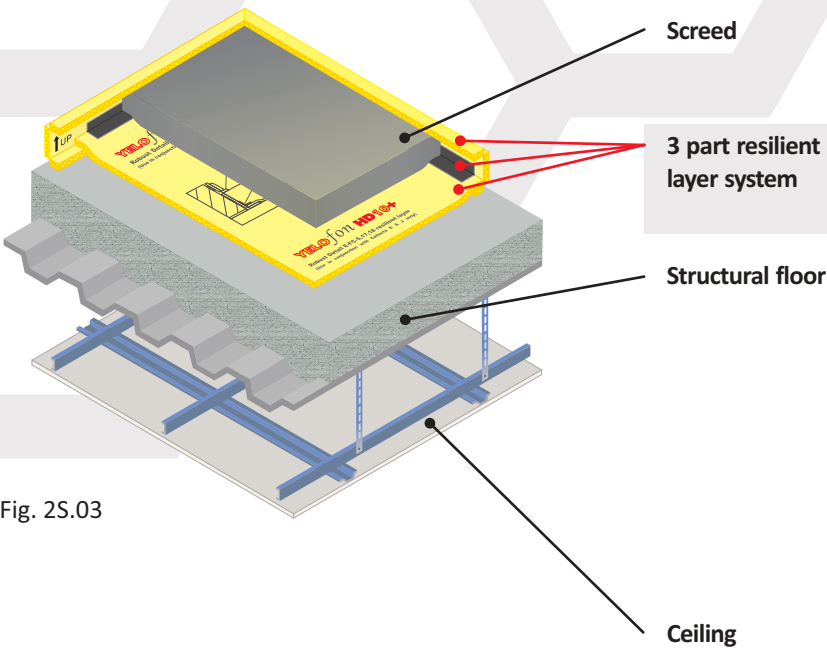


Fig. 2S.03

- 65mm (min) sand cement screed
- 40mm proprietary screed, nominal 80kg/m² mass per unit area

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

- In-situ concrete slab supported by profiled metal decking:
- “Shallow” or “deep” profiled metal decking
 - Overall distance from top surface of concrete to underside of ceiling treatment 300mm (min)
 - Concrete thickness 80mm (min) at shallowest point and 130mm (min) at deepest point
 - Concrete density 2200kg/m³ (min)

See Table 2S.03b for ceiling treatment options

Table 2S.03a

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 (50m²)
- 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

- HEXATHERM® XFLOOR 250, 300**
High performance extruded polystyrene
Compressive strength: 250, 300kPa
Dimensions: 25-160mm x 600mm x 2500mm
- UFH water pipe (by others)

Underfloor heating systems within screed (without thermal insulation)

Ensure fixings used to secure the UFH do **not** penetrate the HD10+

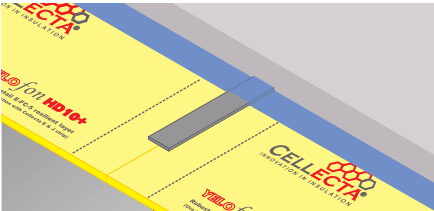
Table 2S.03b

Ceiling Treatment Options

Any ceiling system
One layer of nominal 8kg/m² gypsum-based board

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 joints and lapping up around the perimeter by 150mm.



Construction notes
Materials must be installed in accordance with manufacturers' instructions to achieve required acoustic performance values. Wall treatments **MUST** be isolated from the floating floor with **YELOfon E-Strip** perimeter edge strip.

Acoustic Performance

Airborne: 54dB $D_{nT,w} + C_{tr}$	Building Regs
Impact: 49dB $L_{nT,w}$	+ 8dB

PCT values quoted are typical, based on the treatment being installed correctly and pre-completion tested, with airborne performance tested in accordance with BS EN ISO 140-4:1998 and impact performance tested in accordance with BS EN ISO 140-7: 1998.

Third Party Accreditation and Approvals



Environmental Credentials

