

Modified beam and block Screed laid on YELOfon HD10+ resilient layer System

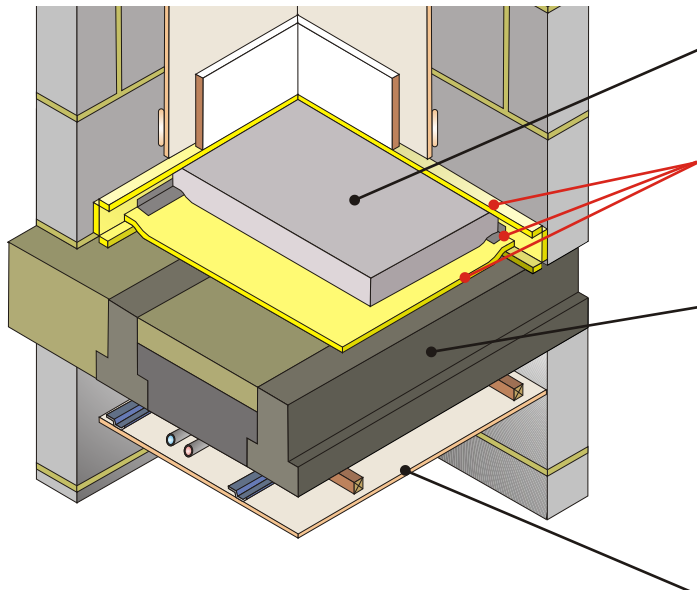


Fig. 9

Screed	65mm (min) sand cement screed, or 40mm proprietary screed, nominal 80kg/m ² mass per unit area
Resilient layer	YELOfon HD10+ with E-strip perimeter edging and J-strip acoustic joining tape (See Table. 9 for full details)
Structural floor	<ul style="list-style-type: none"> ● 150mm (min) pre-stressed floors beams ● 100mm rebated dense concrete infill blocks ● In-situ cast concrete to seal floor ● 300kg/m² (min) mass per unit area (including shuttering only if it is solid concrete or metal and any bonded screed if required)
Ceiling	See Table. 9 for ceiling treatment options

Table. 9

PCT resilient layer installation options	Perimeter resilient flanking strip required	Ceiling treatment options
<p>YELOfon HD10+ 10mm high density polyethylene foam with Sure bond HDPE facing</p> <p>YELOfon J - strip Acoustic joining tape</p> <p>Typical PCT performance values: $D_{nl,w} + C_{tr} = 50\text{dB}$ $L_{nl,w} = 55\text{dB}$</p>	<p>YELOfon E-Strip</p> <p>Polyethylene foam flanking strip- 7mm (t) x 200mm (h) x 33m (l) with "Surebond" facing and self adhesive backing, to suit 65mm - 100mm screeds, placed around the perimeter of the floor to isolate the screed from the walls and skirting. Seal all joint with J-strip.</p>	<p>Timber batten & metal resilient bars 50mm x 50mm softwood batten Metal resilient bars</p> <p>One layer of 8kg/m² gypsum-based board</p> <p>Any ceiling system - 100mm void Any metal frame ceiling system providing 100mm (min) ceiling void</p> <p>One layer of 8kg/m² gypsum-based board</p> <p>Any ceiling system - 75mm void Any timber or metal frame ceiling system providing 75mm (min) ceiling void</p> <p>One layer of 10kg/m² gypsum-based board</p>
<p>Underfloor heating systems within screed (with thermal insulation)</p> <p>YELOFOAM X2i High performance extruded polystyrene board</p> <p>YELOfon HD10+ 10mm high density polyethylene foam with Sure bond HDPE facing</p> <p>YELOfon J - strip Acoustic joining tape</p>		
<p>Electric underfloor heating systems within screed (without thermal insulation)</p> <p>YELOfon HD10+ FF 10mm foil faced high density polyethylene foam</p> <p>YELOfon J - strip Acoustic joining tape</p> <p>Product dimensions HD10+: 10mm (t) x 1.5m (w) x 33.33m (l) J-strip: 2.5mm (t) x 75mm (w) x 33m (l) X2i: Refer to page 38</p>		

Construction notes.

Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Structural floor must have a minimum mass per unit area of 300kg/m² (including shuttering only if it is solid concrete or metal and any bonded screed if required). The floating layer should be either a 65mm sand and cement screed or proprietary screed product to a mass per unit of at least 80 kg/m². The ceiling treatment should be a minimum 12.5mm (8kg/m²) single layer of plasterboard fixed to a resilient bars, fixed to 50mm x 75mm timber battens. Wall treatments MUST be isolated from the floating floor with YELOfon E-strip. Should an underfloor heating system be installed within the screed (including connectors and fixings) ensure the resilient layer is not penetrated or bridge the screed to the slab.

Acoustic values.

Test data quoted has been conducted at Sound Research Laboratories, Sudbury, UKAS ref. 0444 in accordance with Approved Document E: Annex B: Procedures for sound insulation testing, using a purpose built floor to demonstrate how a floor constructed using equivalent materials and built to a similar quality would perform on site. Airborne results tested in accordance with BS EN ISO 140-4:1998. Impact results tested in accordance with BS EN ISO 140-7: 1998.