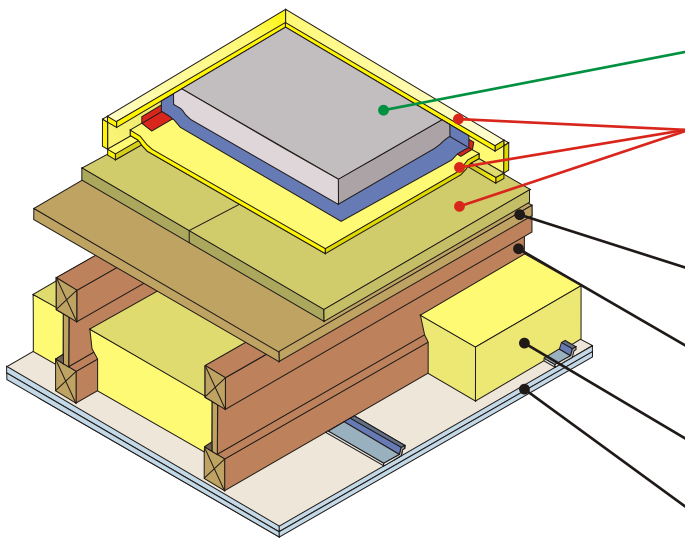


Timber I-joists  
Screed laid on resilient layers



<b>Screed</b>	65mm (min) sand cement screed, or 35mm (min) <b>GYVLON</b> proprietary screed
<b>Resilient layers</b>	<b>YELOfon HD10+ System</b> and <b>FIBREfon 20</b> (See Table. 12 for full details)
<b>Floor decking</b>	11mm thick (min) OSB or Walker perforated deck system
<b>Joists</b>	235mm (min) Timber I-joists at 400mm centres
<b>Absorbing material</b>	100mm (min) quilt insulation (10-36g/m <sup>3</sup> ) between joists
<b>Ceiling</b>	See Table.12 for ceiling treatments

Fig. 12

Table. 12

PCT resilient layers	Perimeter resilient flanking strip required	Ceiling treatment options
<p><b>YELOfon HD10+</b> 10mm high density polyethylene foam</p> <p><b>FIBREfon 20</b> 100% recycled acoustic board</p> <p><b>YELOfon J - strip</b> Acoustic joining tape</p> <p><b>Product dimensions</b> HD10+: 10mm (t) x 1.5m (w) x 33.33m (l) FIBREfon 20: 20mm (t) x 600mm (w) x 2400mm (l) J-strip: 2.5mm (t) x 75mm (w) x 33m (l)</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>The structural walls and floor must be designed to withstand the load imposed by the floor treatment.</b></p> </div> <p><b>Construction notes.</b> Materials must be installed in accordance with manufacturers' instructions to achieve required acoustic performance values. 35mm (min) GYVLON applied over a 500 gauge polythene, with YELOfon HD10+ butt jointed and sealed with J-strip, over a 20mm FIBREfon, on a 15mm OSB deck, with 100mm 10kg/m<sup>3</sup> mineral wool slab fitted in between 235mm timber I-joists at 400mm centres. 2 layers of 15mm (12.5kg/m<sup>2</sup>) plasterboard on resilient bars perpendicular to the joists fixed at 400mm centres. Wall treatments <b>MUST</b> be isolated from the floating floor with YELOfon E-strip perimeter flanking strip.</p>	<p><b>YELOfon E-Strip</b> Polyethylene foam flanking strip- 7mm (t) x 150mm (h) x 33m (l) with self adhesive backing, to suits 65mm and 75mm screeds, placed around the perimeter of the flooring board to isolate floor from walls and skirting. Seal joint with J-strip</p>	<p><b>Ceiling boards must not penetrate or touch joists</b> 16mm (min) metal resilient bars mounted at right angles to the joist at 400mm centres.</p> <p><b>CT1-</b> Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m<sup>2</sup>) fixed with 32mm screws and 12.5mm (nominal 10kg/m<sup>2</sup>) fixed with 42mm screws, with all joists staggered.</p> <p><b>CT2-</b> Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 42mm screws, with all joists staggered.</p> <p><b>Construction notes.</b> Services must not puncture ceiling linings (except cables, which should be sealed around with flexible sealant).</p>

**Typical PCT performance values:**  
 $R_w + C_{tr} = 57\text{dB}$   
 $L_{n,w} = 52\text{dB}$

**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. Airborne results tested in accordance with BS EN ISO 140-3:1995. Impact results tested in accordance with BS EN ISO 140-6: 1998.