

Pre-cast concrete plank  
Screed laid on resilient layers

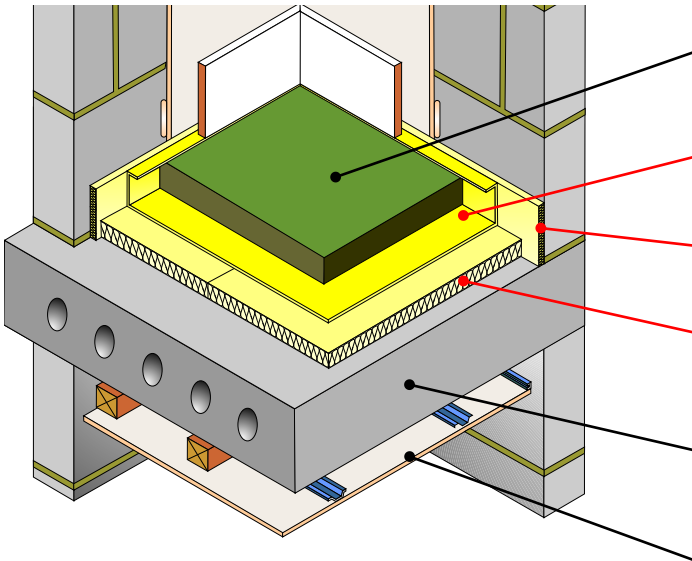


Fig. CF11

<b>Screed</b>	65mm (min) sand cement screed, or 40mm proprietary screed, nominal 80kg/m <sup>2</sup> mass per unit area
<b>Resilient layer (1)</b>	5mm YELOfon HD5 extruded polyethylene (30kg/m <sup>3</sup> )
<b>Isolating edge strip</b>	10mm YELOfon ES10/100 extruded polyethylene
<b>Resilient layer (2)</b>	25mm (min) YELOFOAM X2i extruded polystyrene insulation board (See Table CF11 for full details)
<b>Structural floor</b>	<ul style="list-style-type: none"> <li>150mm (min) pre-cast concrete floor plank slab</li> <li>300kg/m<sup>2</sup> (min) mass per unit area</li> </ul>
<b>Ceiling</b>	See Table CF11 for ceiling treatment options

**IMPORTANT**  
If adopting this treatment, all three components MUST be installed:  
1) YELOfon HD5 (resilient layer 1)  
2) YELOFOAM X2i (resilient layer 2)  
3) YELOfon ES10/100 (10mm isolation perimeter edge strip)



Table CF11

PCT resilient layers installation options	Perimeter resilient flanking strip required	Ceiling treatment options
<p><b>Resilient layer (1)</b> <b>YELOfon HD5</b> <small>5mm extruded polyethylene (30kg/m<sup>3</sup>)</small></p> <p><b>Resilient layer (2)</b> <b>YELOFOAM X2i</b> <small>High performance extruded polystyrene board</small></p> <p><b>Typical PCT performance <sup>(2)</sup></b></p> $D_{nT,w} + C_{tr} = 52\text{dB}$ $L_{nT,w} = 48\text{dB}$ <p><b>Underfloor heating systems within screed</b></p> <p><b>Product dimensions</b> HD5: 5mm (t) x 1.5m (w) x 75m (l) X2i: Refer to page 55</p> <p><b>Construction notes</b> Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Wall treatments <u>MUST</u> be isolated from the floating floor with YELOfon HD5 and ES10/100 flanking strip.</p>	<p><b>YELOfon ES10/100</b></p> <p>Polyethylene foam isolation strip: 10mm (t) x 100mm (h) x 50m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting.</p>	<p><b>Metal ceiling - 150mm void</b> To be used with 150mm (min) depth concrete planks</p> <p>150mm (min)</p> <p>One layer of nominal 8kg/m<sup>2</sup> gypsum-based board</p> <p><b>Metal ceiling - 100mm void</b> To be used with 200mm (min) depth concrete planks</p> <p>100mm (min)</p> <p>One layer of nominal 8kg/m<sup>2</sup> gypsum-based board</p> <p><b>Timber batten &amp; counter battens</b> ONLY to be used with 150mm (min) depth concrete planks</p> <p>100mm (min)</p> <p>One layer of nominal 8kg/m<sup>2</sup> gypsum-based board</p>

**Code credits available**

(Contact Collecta for further information)

**Acoustic values**  
<sup>(2)</sup> Values quoted are typical, based on the treatment being installed correctly and pre-completion tested. Airborne performance tested in accordance with BS EN ISO 140-4:1998 Impact performance tested in accordance with BS EN ISO 140-7:1998