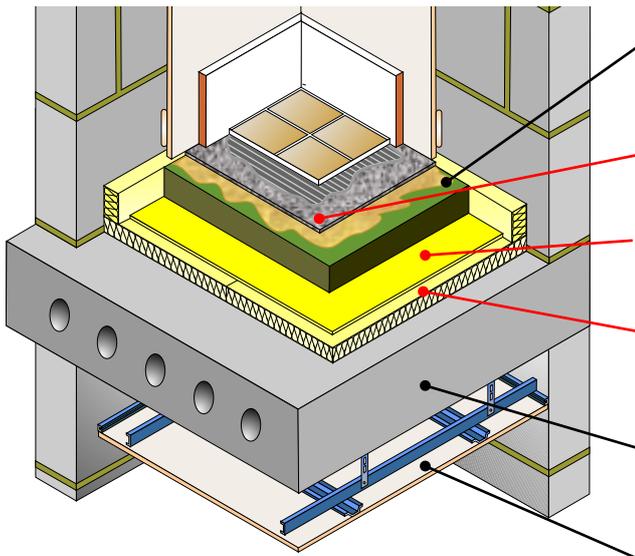


Pre-cast concrete plank  
Screed laid on resilient layers  
Bonded resilient floor covering



<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 DECKfon ULTRALAY 5 fully bonded soft floor covering
<b>Isolation layer (1)</b>	5mm YELOfon HD5 extruded polyethylene (30kg/m <sup>3</sup> )
<b>Isolation layer (2)</b>	25mm (min) YELOFOAM X2i extruded polystyrene insulation board (See Table CF5 for full details)
<b>Structural floor</b>	<ul style="list-style-type: none"> <li>150mm (min) precast concrete floor plank slab</li> <li>300kg/m<sup>2</sup> (min) mass per unit area</li> </ul>
<b>Ceiling</b>	See Table CF5 for ceiling treatment options

Fig. CF5

**IMPORTANT**  
If adopting this treatment, all three components MUST be installed:  
1) DECKfon Ultralay (resilient layer 1)  
2) YELOfon HD5 (isolation layer 1)  
3) YELOFOAM X2i / ECO X2i (isolation layer 2)



Table CF5

Robust detail approved resilient layer installation options	Perimeter resilient flanking strip required	Ceiling treatment options						
<p><b>DECKfon<sup>®</sup> Ultralay 5</b> High performance soft floor covering</p> <p><b>Isolating layer (1)</b> <b>YELOfon<sup>®</sup> HD5</b> 5mm extruded polyethylene (30kg/m<sup>3</sup>)</p> <p><b>Isolating layer (2)</b> <b>X2i / X2i<sup>e</sup></b> High performance extruded polystyrene</p> <p>or</p> <p><b>Expanded polystyrene board (100 grade)</b></p> <p><b>0 GWP</b> All components*</p> <p><b>Underfloor heating systems within screed</b></p> <p>* Excluding X2i</p> <p><b>Product information</b> Bond Ultralay 5 to screed with Collecta AF200 concrete adhesive: 15kg tub/ 22.5m<sup>2</sup> coverage HD5, X2i &amp; X2i<sup>e</sup>: Refer to page 60</p>	<p><b>YES / YES<sup>e</sup></b></p> <p>Extruded polystyrene isolating edge strip: 25mm (t) (min) x thickness of insulation and screed (h) x 2500mm (l) placed around the perimeter of the flooring board to isolate screed from walls and skirting.</p>	<p><b>CT0 - 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>CT1 - 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>Robust Detail performance<sup>(1)</sup></b></p> <p><b>rd L<sub>w</sub> = 25dB</b></p>	<p><b>Typical PCT performance<sup>(2)</sup></b></p> <p><b>D<sub>nT,w</sub> + C<sub>tr</sub> = 52dB</b> <b>L<sub>nT,w</sub> = 40dB</b></p>						
	<p><b>Code credits*</b></p> <table border="1"> <tr> <td>Mat 1</td> <td>Pol 1</td> <td>Hea 2</td> </tr> <tr> <td>0.5</td> <td>1</td> <td>3</td> </tr> </table>		Mat 1	Pol 1	Hea 2	0.5	1	3
Mat 1	Pol 1	Hea 2						
0.5	1	3						

\* Code for Sustainable Homes (CSH) credits quoted are typical. Mat 1 value taken from the BRE Green Guide. Pol 1 credit is only awarded if all the other insulation products used have a GWP of <5. Hea 2 credits are based on the floor being pre-completion tested and the separating wall performing to at least the same acoustic standard. Credits subject to relevant category weighted value. See page 5 for further information.

**Acoustic values**

<sup>(1)</sup> RD impact performance value quoted for DECKfon Ultralay 5 was conducted at a UKAS accredited laboratory in accordance with BS EN ISO 140-8 and BS EN ISO 717-2 as detailed in Appendix G of the Robust details handbook (minimum value required for Results 1 and 2: rd L<sub>w</sub> = 17dB).

<sup>(2)</sup> 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.