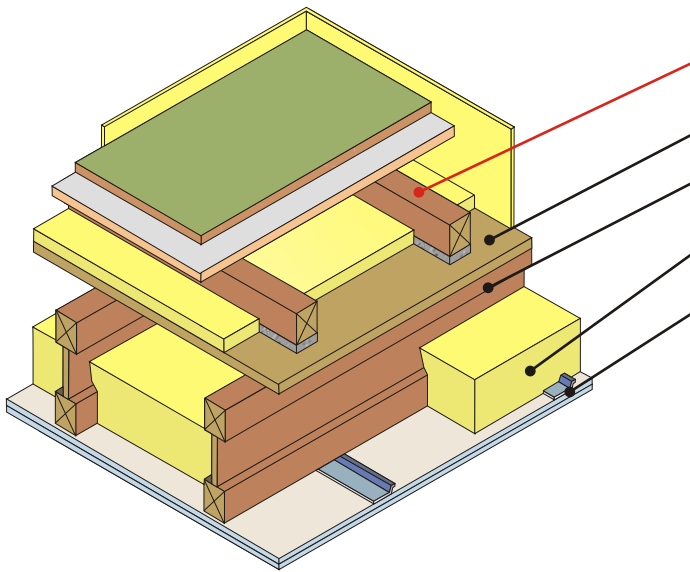


Timber I-joists  
Use with timber frame walls only



<b>Floating floor treatment</b>	<b>FFT1 - DECKfon Batten 70</b> (See Table 10 for full details)
<b>Floor decking</b>	15mm thick (min)
<b>Joists</b>	240mm (min) timber I-joists
<b>Absorbing material</b>	100mm (min) quilt insulation (10-36g/m <sup>3</sup> ) between joists
<b>Ceiling</b>	See Table 10 for ceiling treatment



Fig. 10

Table 10

Robust Detail E-FT-1 compliant floating floor treatment	Perimeter resilient flanking strip required	Ceiling treatment options
<p><b>FFT1 - Resilient composite deep batten system</b></p> <p><b>DECKfon Batten 70</b></p> <p><b>Additional layers required to complete treatment</b></p> <ul style="list-style-type: none"> <li>• 18mm (min) t&amp;g flooring board</li> <li>• 19mm Gypsum-based board - 13.5kg/m<sup>2</sup></li> <li>• Mineral wool quilt laid between battens                             <ul style="list-style-type: none"> <li>- 13mm (min) 33-36 kg/m<sup>3</sup></li> <li>- 25mm (min) 10 -33kg/m<sup>3</sup></li> </ul> </li> </ul> <p><b>Notes.</b> Ensure services do not bridge the resilient layer Void dimension indicated is when floor is loaded to 25kg/m<sup>2</sup> Batten dimensions: 75mm (h) x 45mm (w) x 2400mm (l)</p> <p><math>rd \ R_w + C_w = 14dB</math> <math>rd \ L_w = 16dB</math></p> <p><b>BBA</b> VERIFIED DATA</p> <p><b>Construction notes.</b> Materials must be installed in accordance with manufacturers' instructions to achieve required acoustic performance values. As shown, 18mm t&amp;g chipboard and 19mm gypsum based plank fixed to DECKfon Batten 70, with 13mm (min) 33-36kg/m<sup>3</sup> or 25mm (min) 10-33kg/m<sup>3</sup> mineral wool fitted inbetween. 240mm (min) I-joists, with 100mm 10-33kg/m<sup>3</sup> mineral wool slab fitted in between and 2 layers of plasterboard (23kg/m<sup>2</sup>) on resilient bars perpendicular to the joists, fixed at 400mm centres. Wall treatments <b>MUST</b> be isolated from the floating floor with YELOfon perimeter flanking strip</p>	<p><b>YELOfon ES5/120</b></p> <p>Polyethylene foam flanking strip - 5mm (t) x 120mm (h) x 50m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting.</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>240mm (min)</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>240mm (min)</p> <p><b>Construction notes.</b> Services must not puncture ceiling linings (except cables, which should be sealed with flexible sealant).</p>

**Acoustic values.**  
Test data quoted has been conducted at Sound Research Laboratories, Sudbury, UKAS ref. 0444. Airborne: Tested in accordance with BS EN ISO 140-3: 1995 and rated in accordance with BS ISO 717-1: 1997 (minimum value required  $rd \ RW + C_w = 14dB$ ). Impact: Tested in accordance with BS EN ISO 140-6: 1998 and rated in accordance with BS ISO 717-2: 1997 (minimum value required  $rd \ L_w = 16dB$ ).