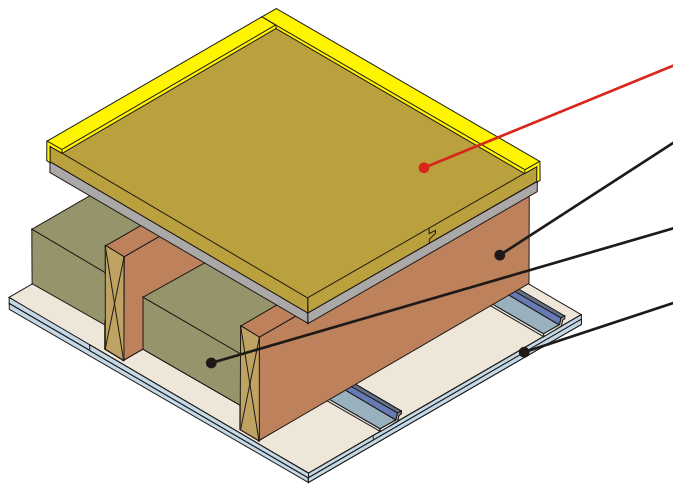


Structural separating floor - Timber (existing)

PCT solution

Existing timber joists
Acoustic treatment laid directly on floor joists
Ceiling on resilient bars



Structural floating DECKfon CHiP 37T floor treatment (See Table. 14 for full details)

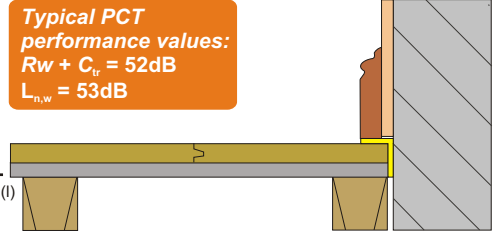
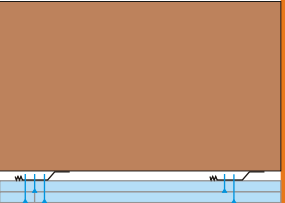
Joists Timber joists

Absorbing material 100mm (min) mineral wool insulation (45kg/m³) between joists

Ceiling treatment See Table. 14 for ceiling treatments

Fig. 14

Table. 14

PCT floating floor treatment	Perimeter resilient flanking strip required	Ceiling treatment and void insulation
<p>DECKfon CHiP 37T Composite acoustic structural overlay board</p> <p>Product information Board dimensions: 37mm (t) x 600mm (w) x 2400mm (l) Edge profile: Tongue and groove Weight: 16.80kg/m² / 24.20kg per board</p> <p>Typical PCT performance values: $R_w + C_{tr} = 52\text{dB}$ $L_{n,w} = 53\text{dB}$</p>  <p>Construction notes. Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Deckfon CHiP 37T structural overlay system laid in a staggered formation with all joints using a suitable adhesive on 50mm x 235mm solid timber joists set at 450mm centres, with 100mm 45kg/m³ mineral wool slab fitted in between and 2 layers of 15mm (12.5kg/m²) plasterboard on resilient bars perpendicular to the joists fixed at 400mm centres. Wall treatments MUST be isolated from the floating floor with YELOfon ES5/100 perimeter flanking strip.</p>	<p>YELOfon ES5/100</p> <p>Polyethylene foam flanking strip - 5mm (t) x 100mm (h) x 50m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting</p>	<p>Ceiling treatment Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) fixed with 42mm screws, with all joists staggered.</p>  <p>Construction note 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 results tested in accordance with BS EN ISO 140-3: 1995 and rated in accordance with BS ISO 717-1: 1997. Impact results tested in accordance with BS EN ISO 140-6: 1998 and rated in accordance with BS ISO 717-2: 1997.