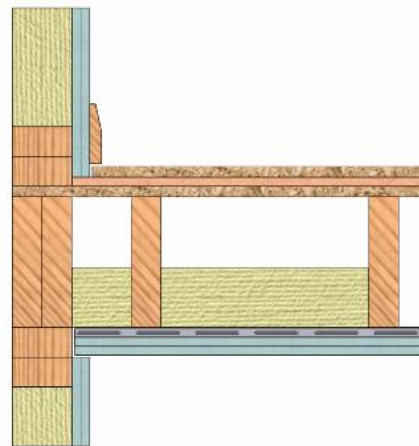
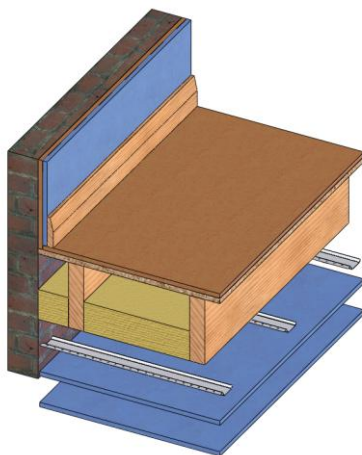




Results Achieved by Using PhoneStar on Timber Floors



Recommended Construction From Top Down to Pass Building Regulations for Sound:

- Any Floor Covering e.g. Laminate, Solid Wood, Tiles, Carpet, Linoleum
- 15mm PhoneStar Acoustic Insulation
- Sub-deck e.g. OSB Board or floorboards
- Timber Joists
- **Optional** - Thermal Insulation in Cavity (mineral wool, rockwool or flexible wood fibre)
- 16mm x 3M Resilient Bars
- 1 or 2 Layers of Acoustic Plasterboard 12.5 or 15mm

Results from Sound Research Laboratory (SRL)

Note: The Ctr (Correction) values (in brackets) are a low frequency correction factor.

	Description of Floor Construction	Airborne Rw (-Ctr)	Impact Ln,w
Test 1 Upgraded Floor using PhoneStar	15mm PhoneStar 15mm T&G OSB Board 235 x 50mm Timber Joists on Hangers 10kg/M ³ insulation between joists - 100mm 16mm Resilient Bars 2 x 12.5mm Acoustic Plasterboard	59 (-6) dB (Pass) 19dB Improvement On Bare Test Floor	56 dB (Pass) 19dB Improvement On Bare Test Floor
Test 2 Upgraded Floor using PhoneStar	As Above, but with 18mm T&G OSB on top of PhoneStar	60 (-6) dB (Pass) Further 1dB Improvement On Above Floor	53 dB (Pass) Further 3dB Improvement On Above Floor
COMPARED TO: Test 3 Bare Test Floor <u>Without</u> PhoneStar	15mm T&G OSB Board 235 x 50mm Timber Joists on Hangers 10kg/M ³ insulation between joists - 100mm 2 x 12.5mm Acoustic Plasterboard	41 (-7) dB (Fail) Note: The higher the result the better	75 dB (Fail) Note: The lower the result the better
England & Wales Building Regulations for Sound - Document E	<u>Separating Floors & Stairs</u> - New Build Dwelling Houses & Flats - Conversions or Change of Use	<u>Airborne DnT,w (-Ctr)</u> 45dB minimum 43dB minimum	<u>Impact L'nT,w</u> 62dB maximum 64dB maximum