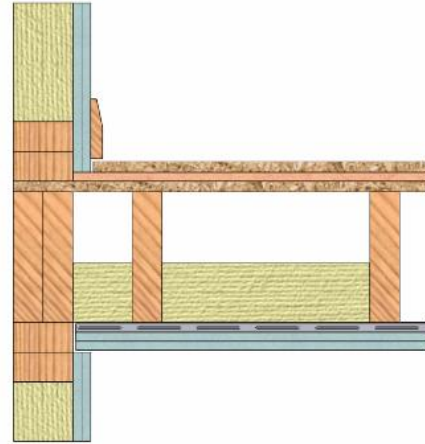
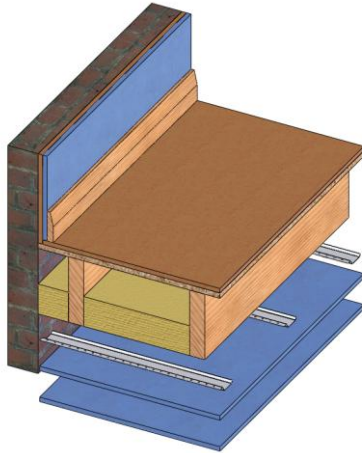




Results Achieved by Using PhoneStar on Timber Floors (previously branded as Phonewell)



Recommended Construction From Top Down:

- 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)
- 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	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 19dB Improvement On Bare Test Floor	56dB 19dB Improvement On Bare Test Floor
Test 2 Upgraded Floor	As Above, but with 18mm T&G OSB on top of PhoneStar	60 (-6)dB Further 1dB Improvement On Above Floor	53dB Further 3dB Improvement On Above Floor
VERSUS			
Test 3 Bare Test Floor Without 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 Note: The higher the result the better	75dB Note: The lower the result the better
England & Wales Building Regulations for Sound - Document E	Separating Floors & Stairs New Build Dwelling Houses & Flats Conversions or Change of Use	45dB minimum 43dB minimum	62dB maximum 64dB maximum