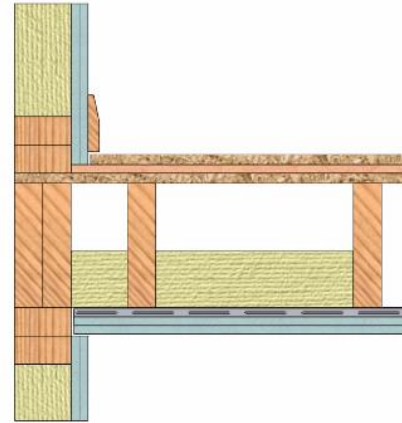
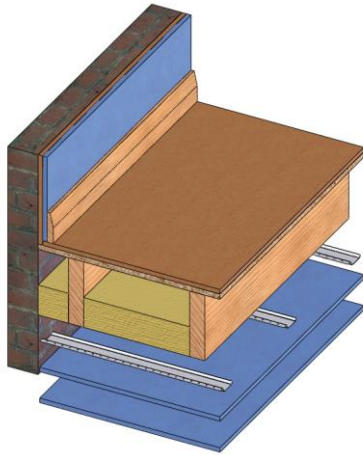




Results Achieved by Using PhoneStar on Timber Floors



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 Pavaflex wood fibre)
- 16mm x 3M Resilient Bars
- 1 or 2 Layers of Acoustic Plasterboard 12.5 or 15mm

Results from Sound Research Laboratory (SRL)

	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 100mm x 10kg/M ³ insulation between joists 16mm Resilient Bars under Joists 2 x 12.5mm Acoustic Plasterboard	59dB (Pass) 18dB Improvement On Bare Test Floor	56dB (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	60dB (Pass) Further 1dB Improvement On Above Floor	53dB (Pass) Further 3dB Improvement On Above Floor
COMPARED TO: Test 3 Bare Test Floor Without PhoneStar	15mm T&G OSB Board 235 x 50mm Timber Joists on Hangers 100mm x 10kg/M ³ insulation between joists 2 x 12.5mm Acoustic Plasterboard	41dB (Fail) Note: The higher the result the better	75dB (Fail) Note: The lower the result the better
Rep of Ire Building Regulations 2014 T.G. Document E Sound (Applies from 1.07.2015)	Separating Floors (including Stairs with a separating structure)	Airborne DnT,w 53dB minimum	Impact L'nT,w 58dB maximum