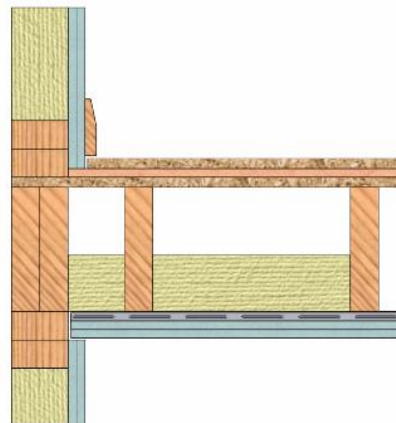
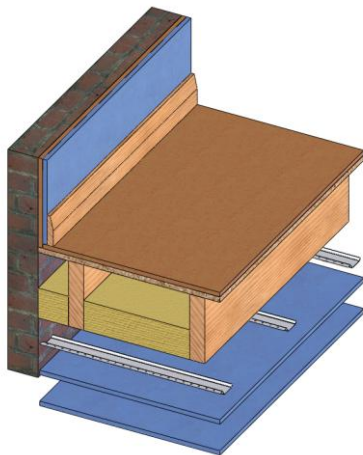




## Results Achieved by Using PhoneStar on Timber Floors (previously branded as Phonewell)



### 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)

	Description of Floor Construction	Airborne Rw (Ctr)	Impact Ln,w
<b>Test 1 Upgraded Floor</b>	15mm <b>PhoneStar</b> 15mm T&G OSB Board 235 x 50mm Timber Joists on Hangers 10kg/M <sup>3</sup> insulation between joists - 100mm 16mm Resilient Bars 2 x 12.5mm Acoustic Plasterboard	<b>59dB</b>  19dB Improvement On Bare Test Floor	<b>56dB</b>  19dB Improvement On Bare Test Floor
<b>Test 2 Upgraded Floor</b>	As Above, but with 18mm T&G OSB on top of <b>PhoneStar</b>	<b>60dB</b> Further 1dB Improvement On Above Floor	<b>53dB</b> Further 3dB Improvement On Above Floor
<b>VERSUS</b>			
<b>Test 3 Bare Test Floor Without PhoneStar</b>	15mm T&G OSB Board 235 x 50mm Timber Joists on Hangers 10kg/M <sup>3</sup> insulation between joists - 100mm 2 x 12.5mm Acoustic Plasterboard	<b>41dB</b>  <b>Note:</b> The higher the result the better	<b>75dB</b>  <b>Note:</b> The lower the result the better
<b>Irish Building Regulations for Sound - Document E</b>	<b>Floors: (mean values tested in at least 4 pairs of rooms)</b>	<b>52dB minimum</b>	<b>61dB maximum</b>

