

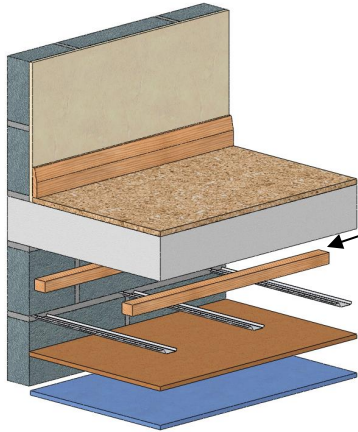
Soundproofing Concrete Ceilings

PhoneStar

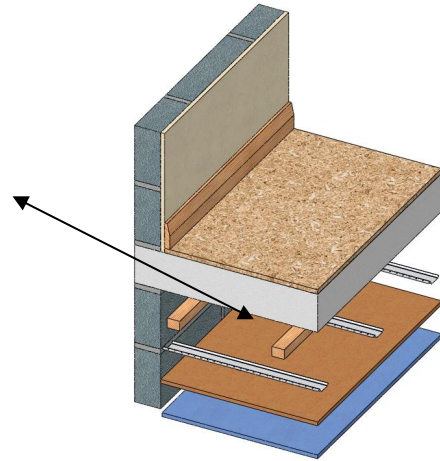


Acoustic Insulation

Improvement Expected when Upgrading Solid Concrete Ceilings (Bare or Plastered) with PhoneStar (previously branded as Phonewell)



It is strongly recommended to insert high density mineral wool in this cavity between the battens to further enhance results.



Decoupled System with Battens and Resilient Bars

(67.5 - 94mm Thickness)

- Solid Concrete Ceiling (Bare, Plastered or Plasterboarded)
- 48 x 24mm OR 48 x 48mm (WxD) Timber Battens
- Optional but Highly Recommended: 25 or 50mm thick High Density Mineral Wool (45kg/m³) OR Pavaflex Flexible Wood Fibre Insulation in between battens
- 16mm Resilient Bar (RB1)
- **15mm PhoneStar Acoustic Insulation**
- 12.5 or 15mm Acoustic Plasterboard

Airborne Sound

Concrete Floor Before Upgrade
Approx: 45 - 49 Decibels DnT,w (+ Ctr)

Expected Improvement with PhoneStar System:
12 - 16dB

Impact Sound

Concrete Floor Before Upgrade
Approx: 73 - 75 Decibels LnT,w

Expected Improvement with PhoneStar System:
14 - 16dB

Rep of Ire Building
Regulations 2014
T.G. Document E - Sound

Separating Floors (including Stairs
with a separating structure)

Airborne DnT,w
53dB minimum

Impact LnT,w
58dB maximum