

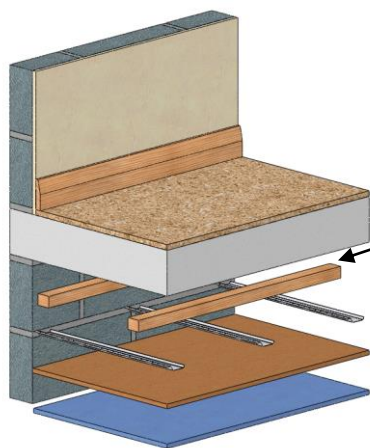
# Soundproofing Concrete Ceilings

PhoneStar

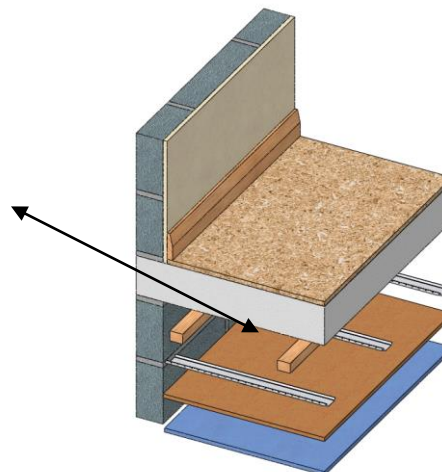


# Acoustic Insulation

## Improvement Expected when Upgrading Solid Concrete Ceilings (Bare or Plastered) with PhoneStar



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/m<sup>3</sup>) 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