

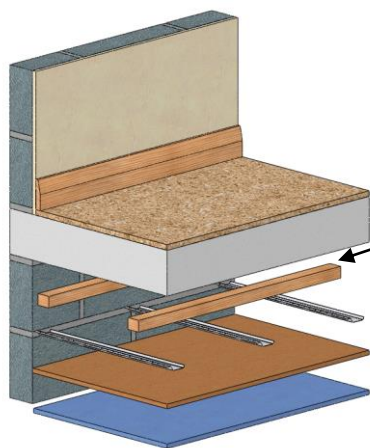
Soundproofing Concrete Ceilings

PhoneStar

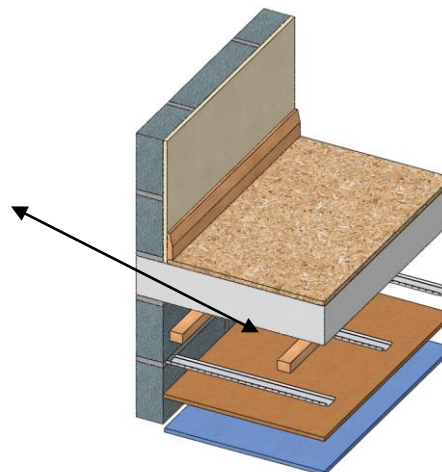


Acoustic Insulation

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/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

England & Wales Building
Regulations for Sound -
Approved Document E

Separating Floors & Stairs

New Build Dwelling Houses & Flats

Conversions or Change of Use

Airborne DnT,w (+Ctr)

45dB minimum

43dB minimum

Impact LnT,w

62dB maximum

64dB maximum