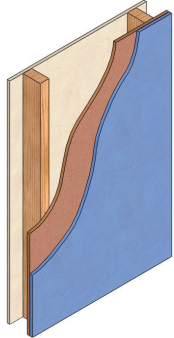


Soundproofing Stud Walls

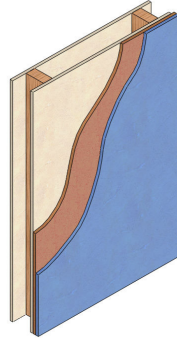


Acoustic Insulation

Upgrading Timber & Steel Stud Walls (bare or plasterboarded) with PhoneStar (previously branded as Phonewell)



New Stud Wall



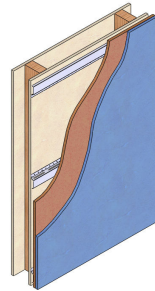
Existing Stud Wall

Direct Application on New or Existing Wall Airborne 50 dB Rw - Achieved Result in Sound Research Laboratory (SRL)

- 12.5 or 15mm Acoustic Plasterboard
- Timber or Steel Studwork
- (Optional Existing Plasterboard if Existing Wall)
- 15mm PhoneStar
- 12.5 or 15mm Acoustic Plasterboard

Optional Improvements: (+ 1 to 2 dB)

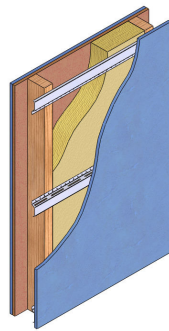
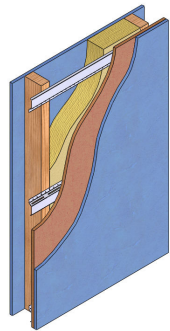
- 50 mm x 45kg/m³ dense mineral wool between studs
- 100 mm x 45kg/m³ dense mineral wool between studs



Existing Stud Wall

Decoupled System on Existing Wall Airborne 56 dB Rw - Expected Result

- 12.5 or 15mm Acoustic Plasterboard
- Timber or Steel Studwork
- (Optional Existing Plasterboard if Existing Wall)
- 15mm PhoneStar
- 16mm Resilient Bars
- 12.5 or 15mm Acoustic Plasterboard



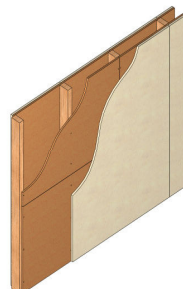
New Stud Wall or Existing Wall where Plasterboard has been Removed. PhoneStar can be on either side of the studs as shown.

Decoupled System on New Wall or Existing Wall if Plasterboard has been Removed Airborne 58 dB Rw - Expected Result

- 12.5 or 15mm Acoustic Plasterboard
- Timber or Steel Studwork
- 100mm x 45kg/m³ dense mineral wool between studs
- 16mm Resilient Bars
- 15mm PhoneStar (can be either side of the studs)
- 12.5 or 15mm Acoustic Plasterboard

Optional Improvements: (+ 1 to 2 dB)

- 2 Layers of 15mm Acoustic Plasterboard on each Side



New Stud Wall or Existing Wall where Plasterboard has been Removed. 2 Layers of PhoneStar for Outstanding Results.

Direct Application on New Wall or Existing Wall if Plasterboard has been Removed Airborne 60 - 62 dB Rw - Expected Result

- 12.5 or 15mm Acoustic Plasterboard
- 15mm PhoneStar
- Timber or Steel Studwork
- 15mm PhoneStar
- 12.5 or 15mm Acoustic Plasterboard

Airborne 65 dB Rw - Laboratory Result

- 40mm Wood Fibre Rigid Thermal Insulation in the Cavity