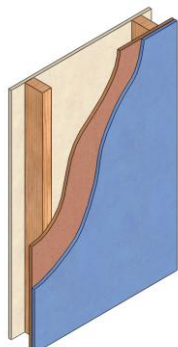
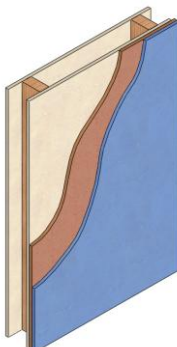




## Upgrading Timber & Steel Stud Walls (bare or plasterboarded) with PhoneStar



New Stud Wall



Existing Stud Wall

### Direct Application on New or Existing Wall

**Airborne 50 dB Rw - Achieved Result in Sound Research Laboratory (SRL)**

#### **+ 10 dB Expected Improvement compared to basic stud wall without mineral wool**

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

#### **+ 13 - 14 dB Expected Improvement**

- 50 mm x 45kg/m<sup>3</sup> dense mineral wool between studs
- 100 mm x 45kg/m<sup>3</sup> dense mineral wool between studs



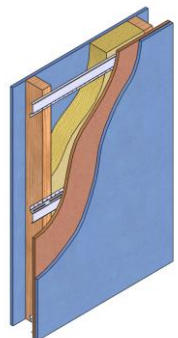
Existing Stud Wall

### Decoupled System on Existing Wall

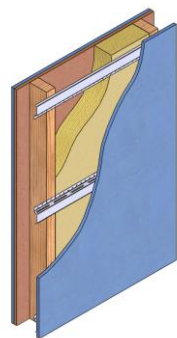
**Airborne 56 dB Rw - Expected Result**

#### **+ 16 dB Expected Improvement**

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

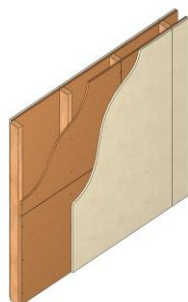
**Airborne 58 dB Rw - Expected Result**

#### **+ 18 dB Expected Improvement**

- 12.5 or 15mm Acoustic Plasterboard
- Timber or Steel Studwork
- 100mm x 45kg/m<sup>3</sup> dense mineral wool between studs
- 16mm Resilient Bars
- **15mm PhoneStar (can be either side of the studs)**
- 12.5 or 15mm Acoustic Plasterboard

#### **+ 20 - 21 dB Expected Improvement**

- 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**

#### **+ 20 - 22 dB Expected Improvement**

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

**Airborne 65 dB Rw - Laboratory Result**

#### **+ 25 dB Expected Improvement**

- 40mm Wood Fibre Rigid Thermal Insulation in the Cavity