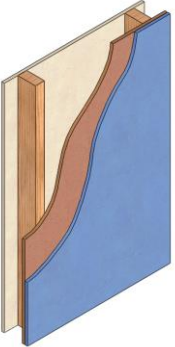
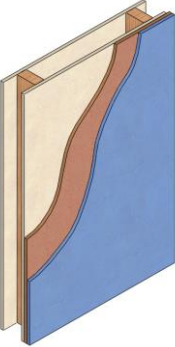

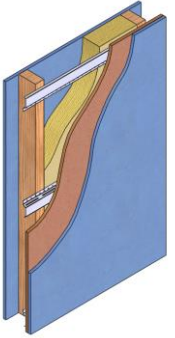
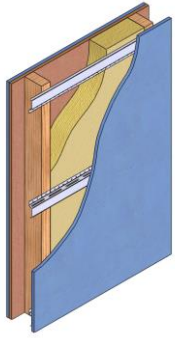
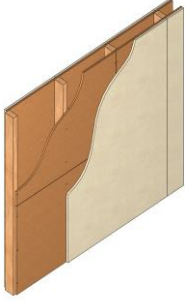


## Upgrading Timber & Steel Stud Walls (bare or plasterboarded) with PhoneStar (previously branded as Phonewell)

 <p><b>New Stud Wall</b></p>	 <p><b>Existing Stud Wall</b></p>	<p><u><a href="#">Direct Application on New or Existing Wall</a></u>  <b>Airborne 50 dB Rw - Achieved Result in Sound Research Laboratory (SRL)</b></p> <p><b>+ 10 dB Expected Improvement compared to basic stud wall without mineral wool</b></p> <ul style="list-style-type: none"> <li>- 12.5 or 15mm Acoustic Plasterboard</li> <li>- Timber or Steel Studwork</li> <li>- (Optional Existing Plasterboard if Existing Wall)</li> <li>- <b>15mm PhoneStar Acoustic Insulation</b></li> <li>- 12.5 or 15mm Acoustic Plasterboard</li> </ul> <p><b>+ 13 - 14 dB Expected Improvement</b></p> <ul style="list-style-type: none"> <li>- 50 mm x 45kg/m<sup>3</sup> dense mineral wool between studs</li> <li>- 100 mm x 45kg/m<sup>3</sup> dense mineral wool between studs</li> </ul>
	 <p><b>Existing Stud Wall</b></p>	<p><u><a href="#">Decoupled System on Existing Wall</a></u>  <b>Airborne 56 dB Rw - Expected Result</b></p> <p><b>+ 16 dB Expected Improvement</b></p> <ul style="list-style-type: none"> <li>- 12.5 or 15mm Acoustic Plasterboard</li> <li>- Timber or Steel Studwork</li> <li>- (Optional Existing Plasterboard if Existing Wall)</li> <li>- 16mm Resilient Bars</li> <li>- <b>15mm PhoneStar Acoustic Insulation</b></li> <li>- 12.5 or 15mm Acoustic Plasterboard</li> </ul>
		<p><u><a href="#">Decoupled System on New Wall or Existing Wall if Plasterboard has been Removed</a></u>  <b>Airborne 58 dB Rw - Expected Result</b></p> <p><b>+ 18 dB Expected Improvement</b></p> <ul style="list-style-type: none"> <li>- 12.5 or 15mm Acoustic Plasterboard</li> <li>- Timber or Steel Studwork</li> <li>- 100mm x 45kg/m<sup>3</sup> dense mineral wool between studs</li> <li>- 16mm Resilient Bars</li> <li>- <b>15mm PhoneStar (can be either side of the studs)</b></li> <li>- 12.5 or 15mm Acoustic Plasterboard</li> </ul> <p><b>+ 20 - 21 dB Expected Improvement</b></p> <ul style="list-style-type: none"> <li>- 2 Layers of 15mm Acoustic Plasterboard on each Side</li> </ul>
 <p><b>New Stud Wall or Existing Wall where Plasterboard has been Removed. PhoneStar can be on either side of the studs as shown.</b></p>	<p><u><a href="#">Direct Application on New Wall or Existing Wall if Plasterboard has been Removed</a></u>  <b>Airborne 60 - 62 dB Rw - Expected Result</b></p> <p><b>+ 20 - 22 dB Expected Improvement</b></p> <ul style="list-style-type: none"> <li>- 12.5 or 15mm Acoustic Plasterboard</li> <li>- <b>15mm PhoneStar Acoustic Insulation</b></li> <li>- Timber or Steel Studwork</li> <li>- <b>15mm PhoneStar Acoustic Insulation</b></li> <li>- 12.5 or 15mm Acoustic Plasterboard</li> </ul> <p><b>Airborne 65 dB Rw - Laboratory Result</b></p> <p><b>+ 25 dB Expected Improvement</b></p> <ul style="list-style-type: none"> <li>- 40mm Wood Fibre Rigid Thermal Insulation in the Cavity</li> </ul>	