



## Resilient Bars

### Fitting Instructions

#### Solution 2 ( See below for solution 3)

Remove all existing wall furniture i.e. skirting boards, light switches coving and dado rails. Fill any obvious holes in the wall before hand should you encounter when removing skirting board. If noise is possibly permeating through the floor and you have access it might be advisable to pack in acoustic mineral wool slab (ARW60 100mm) up against the party wall beneath the joists. The same applies for the ceiling (if you have access from the floor above) next to the party wall

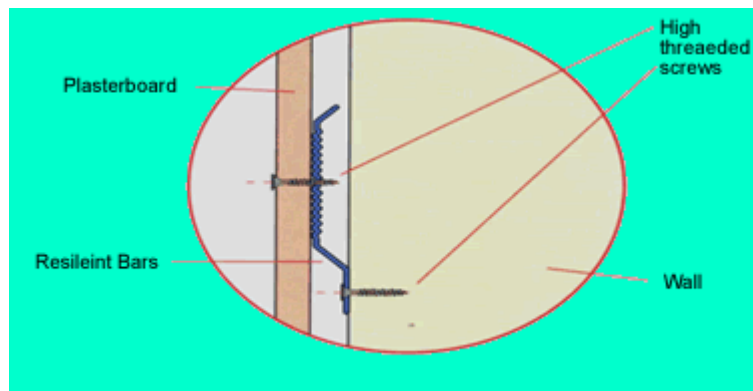
#### Cutting

Resilient Bars can be cut with tin snips or a hack saw.

Screw 50mm\*50mm (or 75mm by 50mm) battens to wall at 625mm centres (max). 625mm centres are chosen to leave 600mm gaps that the wool slabs can be placed in. Ideally the gaps want to be a little smaller say 595mm Acoustic slabs should be friction fitted between these such that no gaps whatsoever remain. As with all soundproofing think of the analogy of water entering a leaky boat, seal all gaps!

Starting at approximately 50-100mm from the floor level, screw resilient bars to battens at 400- 600mm horizontal centres along the wall.) The final resilient bar should be approximately 50mm from the ceiling). If bars need joining just overlap and nest corrugated metal flange by about 10-15cm.

19mm Acoustic plasterboard should now be fixed to the metal flange part only using 32mm drywall screws. Note that the screws should penetrate the metal flange section only and not come into contact with the wall.

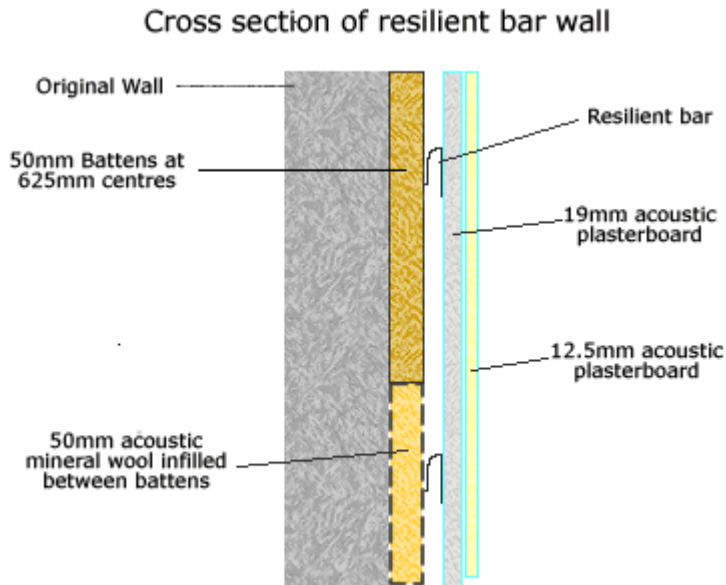


(in above diagram read batten for wall)

## Wall Solution 2&3: Resilient Bars

A second layer of 12.5mm plasterboard should then be affixed to this using 42mm screws again taking care not to touch the wall, or battens with screw tips). Take care to leave a small (2-3mm gap at the perimeter that can be filled with acoustic sealant.

The wall should be sealed around the perimeter using acoustic sealant such that no gaps remain.



### **Solution 3 - Acoustic membrane upgrade.**

If you wish to upgrade this construction further these can be achieved by sandwiching Acoustic membrane (1.2mm) between the battens and the resilient bars. This can be achieved by affixing the membrane at the top of the wall with highest horizontal line of resilient bars, letting the membrane drape down the wall (like a blanket). Any join in the membrane should be achieved by using impact adhesive (or other similar and overlapping the membrane by 10-15cm at the joins). The membrane should be sandwiched between the plasterboard and the wall and any excess trimmed with a Stanley knife. In this way a seal is effected. The plasterboards should then be screwed onto the resilient bars as described above.

Cross section of resilient bar wall

