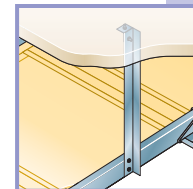
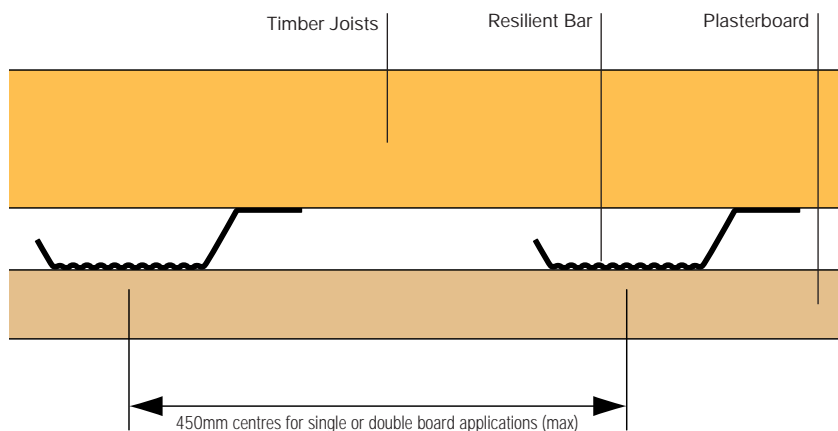


# Ceilings

## Resilient Bar



The sound insulation performance of some ceiling systems is dependent upon the attachment of a Resilient Bar to the underside of the joists and perimeter noggins on all four sides of room. The Resilient Bar is fixed at right angles to the joists at 450mm maximum centres for single or double applications. When 2400mm board is being used the Resilient Bar will need to reduce to 400mm centres.



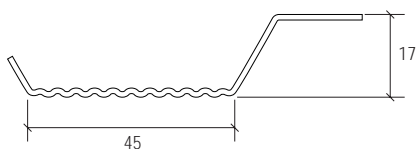
Bars are joined by butting together under the timber beam. Plasterboards are fixed with long edges at right angles to Resilient Bars at 230mm centres using Drywall self-tapping screws which should penetrate the Resilient Bar by a minimum of 10mm

### Resilient Bar



Product Description	Stock Lengths Metre	Weight per Length Kgs
Resilient Bar x 0.5mm	3.000	1.05

Resilient Bar



Speedline Resilient Bar is designed to offer improved acoustic insulation when constructing a conventional ceiling under timber joists. Mineral wool insulation can be included in the floor cavity to improve acoustic performance. To ensure maximum sound insulation performance, screws fixing the plasterboard must not be in contact with the joists. When installing a dual layer of boards, all joints in the second layer must be staggered in relation to those of the first layer.

The following were tested as floor applications under timber beams 235mm x 50mm spaced at 450mm centres with 15mm OSB fixed to the top of the joists.

Each ceiling was boarded with an inner layer of 19mm standard plasterboard (plank) and an outer layer of 12.5mm sound resistant wallboard. 100mm glass mineral wool was infilled into the joist cavities.

	Boards fixed direct to timber beams in the conventional method	Boards fixed to Resilient Bar spaced at 400mm centres
airborne RwdB	40	54
Impact Lnw	74	61
airborne Rw + Ctr	33	45

#### Recommendations for maximum loadings for Resilient Bars

Centres (mm)	Uniformed distributed load (kg/m <sup>2</sup> )
400	35
450	30