

## Soundproofing Solutions to Meet New Part E Building Regulations

### TYPE 3.2

Separating Timber Floors / Timber Joist Floor / 54  $R_w$ dB +  $C_{tr}$  - 56  $L_{nw}$ dB Application

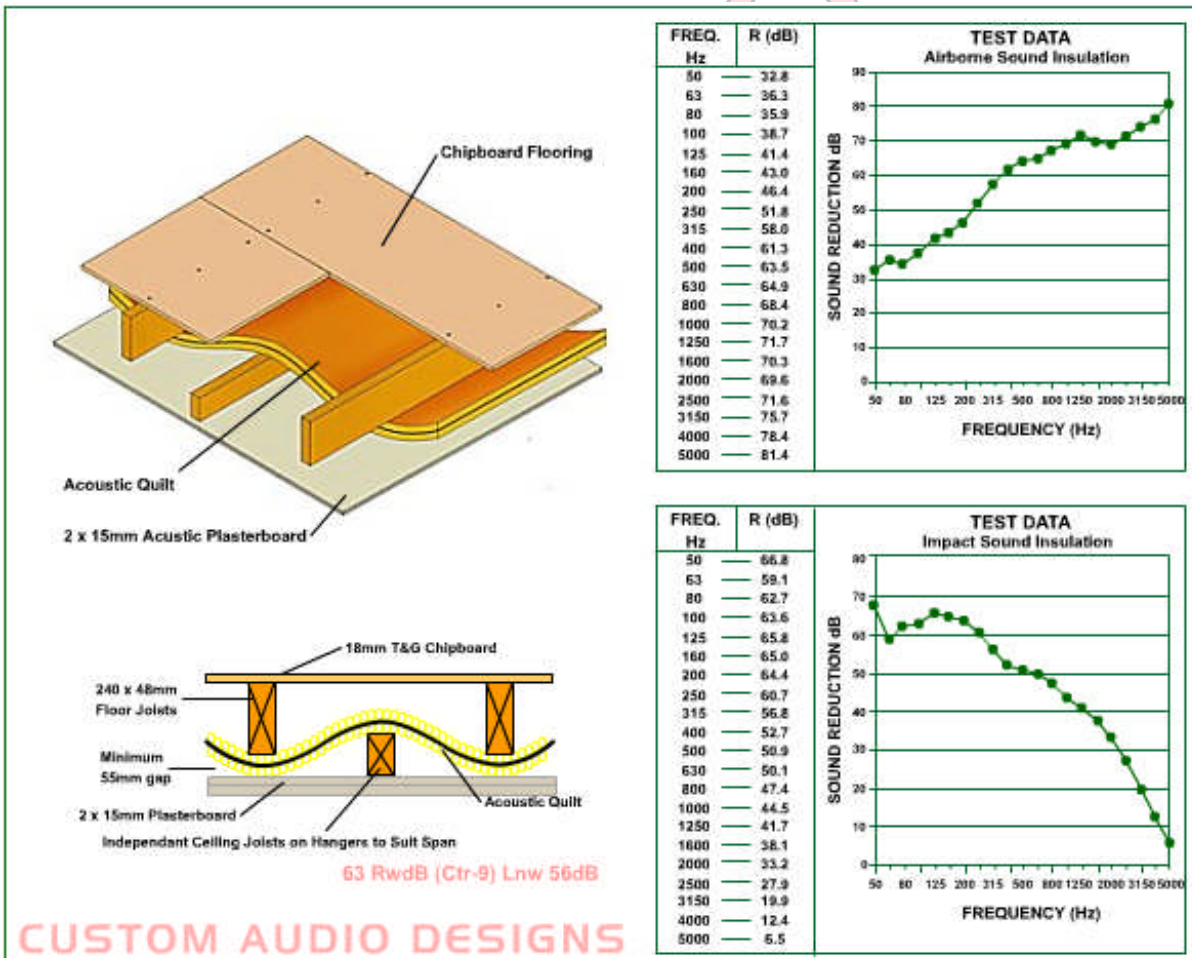
Sound Reduction Performance		
Airborne		Impact
$R_w$ dB	$R_w$ dB+ $C_{tr}$	$L_{nw}$ dB
63	54	56
Acoustic Requirement: New Build		
Airborne: 45 $D_{nTw}$ + $C_{tr}$ dB		
Impact: 62 $L_{nTw}$ dB		
Acoustic Requirement: Refurbishment		
Airborne: 43 $D_{nTw}$ + $C_{tr}$ dB		
Impact: 64 $L_{nTw}$ dB		

#### Components and Fixing Data:

- 1 x 18mm T&G Chipboard (screwed to)
- Timber Joists (240 x 48mm at 400mm centres. Joist size to suit application)
- 52mm Acoustic Quilt (beneath joists)

#### Independant Ceiling:

- Timber Joists (100 x 48mm on hangers at 400mm centres)
- 2 x 15mm Acoustic Plasterboard (screwed to independant joists)



#### Technical Data:

Mass per Unit Area: 59.4Kg/m<sup>2</sup>  
 Footprint Width: 343mm  
 Fire Protection: 60 minutes

**MODIFICATIONS:**

Adding our Acoustic Membrane between the 2 layers of 15mm plasterboard will improve the above system by between 4-5dB

Adding Resilient Bars on the independant ceiling joists will improve the above system by around 3-5dB

Adding soundproofing mats to the top floor will improve the above system by around 3-6dB

All information contained in these details is given in good faith but without warranty.  
Custom Audio Designs reserves the right to alter the specifications of any product without notice.

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