Soundproofing Timber Ceilings



Acoustic

Insulation

Improvement Expected when Upgrading Timber Joist Ceilings with PhoneStar

Option 1 Ungraded Cailing with Minarel Weel in the Cavity			
Option 1 - Upgraded Ceiling with Mineral Wool in the Cavity			
Description of Floor / Ceiling Construction Expected Airborne DnT,w L'nT,w	npact /		
15mm T&G OSB Board 235 x 50mm Timber Joists on Hangers 10kg/M³ insulation between joists - 100mm With / Without Existing Plasterboard * 	dB ent Floor /		
* Note: Subject to Local Building Fire Regulations for Ceilings in Separating Dwellings			
Option 2 - Upgraded Ceiling without any Mineral Wool in the Cavity			
Expected Airborne Expected Ir DnT,w L'nT,w	npact /		
As Above, but without any mineral wool in the cavity 56 - 58 dB (Pass) 58 to 61 d	IB		
= 15 to 17 dB Improvement On Basic Test Floor / Ceiling = 14 to 17 Improvem On Basic Test Ceiling	dB ent Floor /		

COMPARED TO:	 15mm T&G OSB Board 235 x 50mm Timber Joists on Hangers 100mm x 10kg/M³ insulation between joists 2 x 12.5mm Acoustic Plasterboard 	Airborne Rw	Impact Ln,w
Without PhoneStar		41 dB (Fail)	75 dB (Fail)
Tested in Sound Research Laboratory (SRL)		Note: The higher the result the better	Note: The lower the result the better
Rep of Ire Building Regulations 2014 T.G. Document E - Sound	Separating Floors (including Stairs with a separating structure)	<u>Airborne DnT,w</u> 53dB minimum	<u>Impact LnT,w</u> 58dB maximum

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