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Amazing airborne sound insulation within Rw=36 dB

PhoneStar is only 15mm thick and has the airborne sound insulation of a simple stud wall in dry construction. (Plasterboard 50mm stud Plasterboard) The performance is achieved due to the unique nature of the board construction with loose grains of sand in the board oscillating when stuck sound energy in microscopical small vibrations. Acoustic energy is thus converted to Kinetic energy and dissipated in the board itself. [RETURN TO PREVIOUS PAGE](#)

Phonestar Acoustic Performance Airborne Improvement Rw

Temperature: 18.8°C

Air Humidity: 59.2%

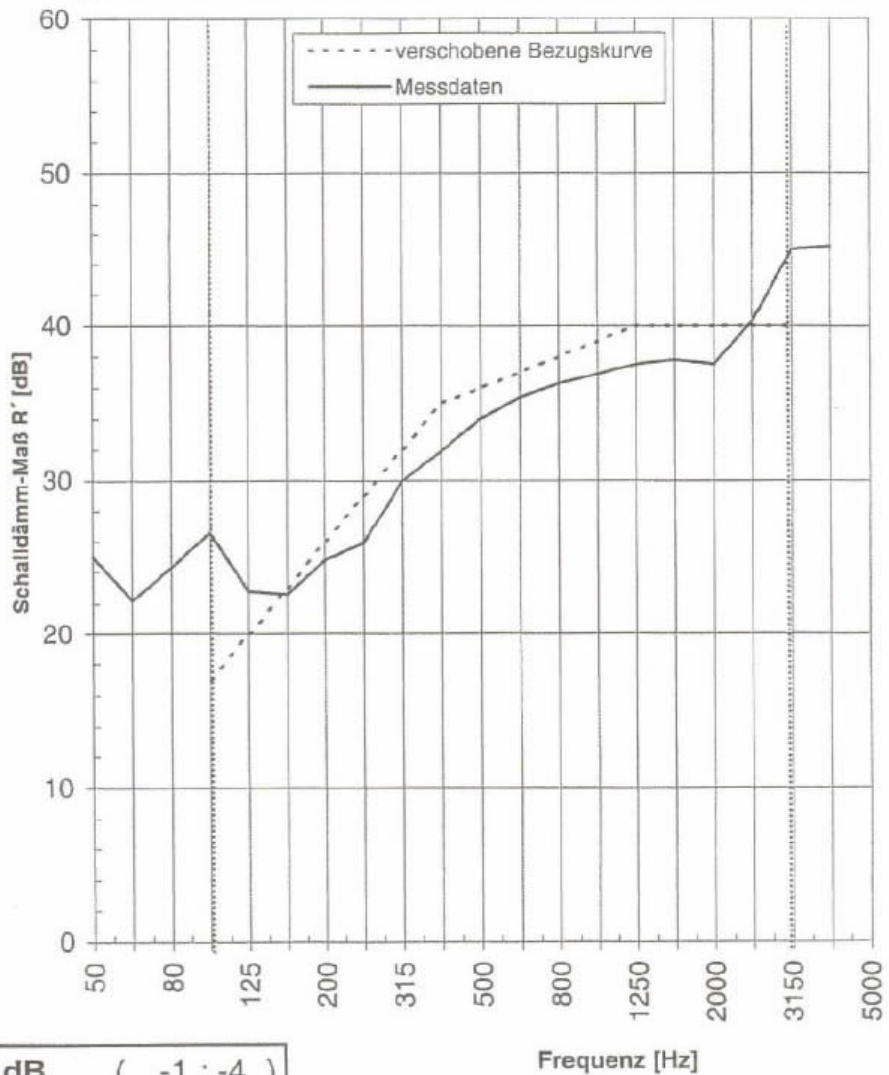
----- Average Reference Curve

_____ Measured Readings

Schalldämm-Maß R' (dB) = Sound Insulation Measurement R' (dB)

Temperatur: 18,8 °C
Luftfeuchtigkeit: 59,2%

Frequenz Hz	R' Terz dB
50	25,0
63	22,2
80	24,3
100	26,6
125	22,8
160	22,6
200	24,8
250	25,9
315	30,0
400	31,9
500	34,0
630	35,4
800	36,3
1000	36,9
1250	37,5
1600	37,8
2000	37,5
2500	40,3
3150	45,0
4000	45,2
5000	-



Bewertung nach ISO 717-1:

$R_w(C; C_{tr}) = 36 \text{ dB} \quad (-1 ; -4)$

Die Ermittlung basiert auf Gebäude-Messungen,
die in Terzbändern gewonnen wurden.

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Product Summary

Phonewell® is a cross fluted engineered card and hardboard carcass containing a finely mixed and compacted loose quartz sand mixture, which exhibits high mass and density with unique self-decoupling properties.

Phonestar Benefits

- 36dB (Rw, -4Ctr) Airborne sound insulation
- 21dB (ΔLw) Impact sound insulation
- Soundproofing for Walls, Floors and Ceilings whether constructed from timber, steel or solid substrate
- For new build, conversion, remedial and refurbishment projects
- Phonewell® is a *Natural Product which is* breathable, pollutant free and odourless
- Only 15mm thick which avoids problems with door thresholds and re-fitting skirting in refurbishments
- *Easy* to fit and cut with simple butt joints and does not require flanking strips
- Speed of installation time and low cost labour
- Acoustic insulation which adds Thermal Mass to lightweight structures
- Excellent with underfloor heating
- Comparable sound insulation results to Robust Detail floating floors which are a minimum 107mm thick
- Provides a solid floor feel underfoot unlike other squashy acoustic floor systems
- Sound insulation performance actually improves by 3dB when a hard surface is fitted on to it
- Supports 5kN/m² loading criteria application usage(tested to 60 tonne/m²)
- *Contributes to [Code for Sustainable Homes](#) points*
- [DIBt](#) German Agrément Certificate awarded and full [BBA](#) Agrément *Certification.*
- Phonewell® soundproofing has been recognized with the 'Most Innovative Construction Product Award' in Germany.

Phonestar Core



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