

Noisestop Systems

Noisestop Acoustic Underlay 12mm

Product Information & Performance Data

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01423 339163

NOISE  **STOP**
SYSTEMS

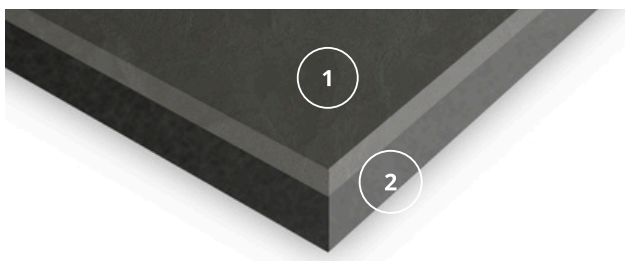
Noisestop Acoustic Underlay 12mm

Noisestop Acoustic Underlay reduces impact and airborne sound through timber and concrete flooring. This slim soundproof mat is simple to install over your existing flooring to help restore quiet in your home. Noisestop Acoustic underlay combines a high mass layer to block airborne sound with a sound absorption layer to reduce impact transfer between floors.

Specifications

- System thickness 12mm
- Size 1200mm x 1200mm (1.44sqm)
- Weight 16kg

1. Barrier mat 3mm/7.5kg for adding mass
2. Closed cell foam 9mm for sound absorption



Thermal Resistance R:

- Closed Cell Foam: 0.23 m² K/W
- Mass loaded vinyl 0.14 m² K/W

Thermal Conductivity λR:

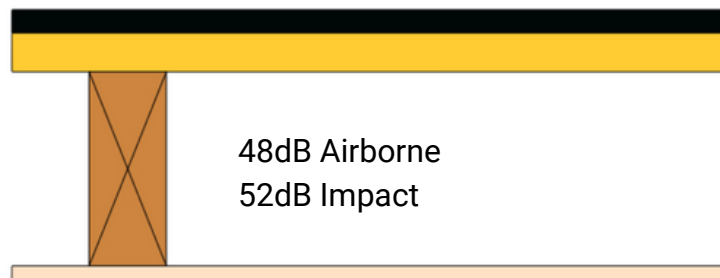
- Closed Cell Foam: 0.039 W/mK
- Mass loaded vinyl 0.037 W/mK

Reaction to Fire

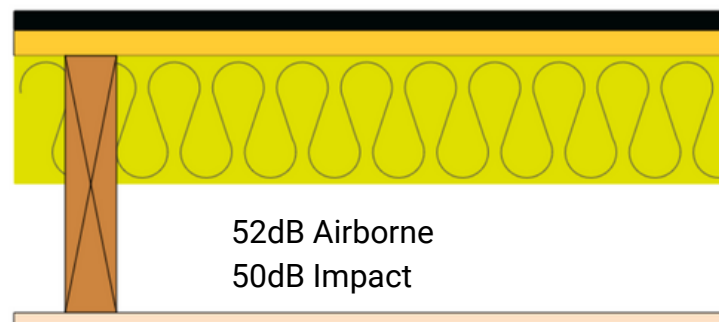
- Closed Cell Foam: FMVSS 302
- Mass loaded vinyl 10kg EN 13501-1 B-s2,d0 (2

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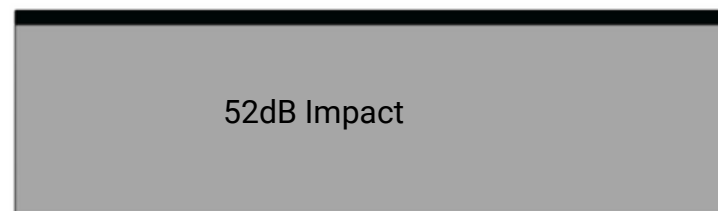
Timber floor with Noisestop Acoustic Underlay



Acoustic Underlay with 100mm acoustic insulation



Acoustic Underlay Over 200mm concrete flooring



Note: Every 10 decibels(dB) reduction in noise level is roughly perceived as a halving of the perceived loudness. So, for instance, if you have a sound that measures 70dB and it decreases to 60dB, it would sound about half as loud to the human ear.

Timber joist Floor Performance

Performance data for the Noisestop Acoustic Underlay used over a timber floor. The higher the figure for airborne the better the performance, the lower the figure for impact the better the performance.

Noisestop Acoustic Underlay	Airborne dB* DnT,w	Impact dB* Ln,w
Standard timber floor untreated*	41	79
Timber floor with Noisestop Acoustic Underlay	48	52
Timber floor with Noisestop Acoustic underlay and 100mm acoustic insulation	52	50

* 18mm Chipboard floor on 200mm joists with a 10mm plasterboard ceiling

Improvement

Airborne DnT,w

With Noisestop Acoustic Underlay **7dB**

Noisestop Acoustic Underlay and 100mm acoustic insulation **11dB**

Impact Ln,w

With Noisestop Acoustic Underlay **27dB**

Noisestop Acoustic Underlay 100mm acoustic insulation **29dB**

Concrete Floor Performance

Performance data for the Noisestop Acoustic Underlay used over a concrete floor. Due to the high mass of concrete flooring, acoustic underlays are only used to reduce impact noise.

Noisestop Acoustic Underlay	Impact DB* Ln,w
Standard concrete floor untreated*	79
Concrete floor with Noisestop Acoustic Underlay	52

* 200mm Concrete slab

Improvement Impact Ln,w

With Noisestop Acoustic Underlay **27dB**