

NOISE STOP BOARD™

High Density Acoustic Underlay

PRODUCT DESCRIPTION AND TYPICAL APPLICATIONS

Insulation Solutions™ *Noise Stop Board* is ideal for the control of room to room sound transmission in offices, classrooms, medical rooms, apartments or homes. It provides a barrier against unwanted sound. It is a heavy density Glass Wool panel that significantly reduces sound transmission when used in timber or steel stud walls.

Noise Stop Board is typically fixed to partition studs under the plasterboard and thus acts as an isolating medium. *Noise Stop Board* can also be used in concrete floor systems and framed ceilings to create a barrier to sound transmission between floors.

PHYSICAL CHARACTERISTICS

| | |
|--------------------------------------|------------|
| Nominal Thickness (mm) | 13 |
| Standard Dimensions (mm) | 1200 x 914 |
| Nominal Density (kg/m ³) | 168 |
| Area per Pack (m ²) | 10.96 |
| Quantity per Pack (pieces) | 10 |

EARLY FIRE HAZARD RATING

When tested in accordance with AS1530 Part 3 "Early Fire Hazard Properties of Materials Test", *Insulation Solutions Noise Stop Board* exhibits the following characteristics.

| | |
|-----------------------|-----|
| Ignitability Index | 0 |
| Spread of Flame Index | 0 |
| Heat Evolved Index | 0 |
| Smoke Developed Index | 0-1 |

Tests were conducted by AWTA.

IMPACT NOISE CONTROL

Noise Stop Board can be used to reduce noise between upper and lower floors. It can significantly reduce impact sound when installed under the floor membrane over the concrete floor above the room

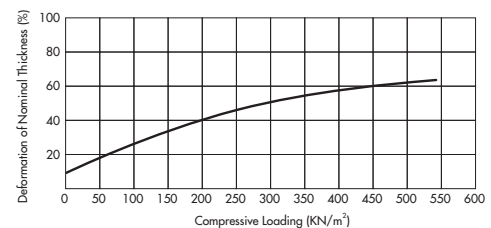
below and with a suspended ceiling installed. *Noise Stop Board* laid under ceramic tiles on 4.5mm ceramic tile underlay achieved a Field Impact Isolation Class (FIIC) of 63.

SOUND TRANSMISSION LOSS

| Partition Wall Systems | Insulation | Rw |
|--|---|----|
| 90mm x 35mm thick timber stud with one layer of 10mm Boral Soundstop® Plasterboard each side | Nil | 39 |
| 90mm x 35mm thick timber stud with one layer of 10mm Boral Soundstop Plasterboard each side and one layer of <i>Insulation Solutions Noise Stop Board</i> separating the plasterboard from the stud on one side. | 13mm <i>Noise Stop Board</i> | 46 |
| 90mm x 35mm thick timber stud with one layer of 10mm Boral Soundstop Plasterboard each side and one layer of <i>Insulation Solutions Noise Stop Board</i> separating the plasterboard from the stud on one side only, and with Noise Control Batts™ in the cavity. | 50mm <i>Noise Control Batts</i> 13mm <i>Noise Stop Board</i> | 48 |

COMPRESSIVE STRENGTH

Noise Stop Board has excellent compressive strength and recovers to its nominal thickness even after prolonged compression. Deformation under compression loading is shown in the graph.



THERMAL PERFORMANCE

When tested at 20°C mean temperature *Insulation Solutions Noise Stop Board* has the following nominal properties.

| | |
|---------------------|--------------------------|
| Thermal Resistance | R0.41 m ² K/W |
| Thermal Conductance | C2.46 W/m ² K |

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SOUND ABSORPTION

Noise Stop Board has the following sound absorption co-efficients when tested in accordance with AS1045 by the Reverberation Room Method.

Tests were carried out with no air space behind the samples, and results are based on test reports from RMIT Department of Applied Physics.

| Nominal thickness (mm) | Sound absorption coefficients (reverberation) at frequencies (Hz) of: | | | | | |
|------------------------|---|------|------|------|------|------|
| | 125 | 250 | 500 | 1000 | 2000 | NRC |
| 13mm | 0.00 | 0.10 | 0.35 | 0.70 | 0.90 | 0.50 |

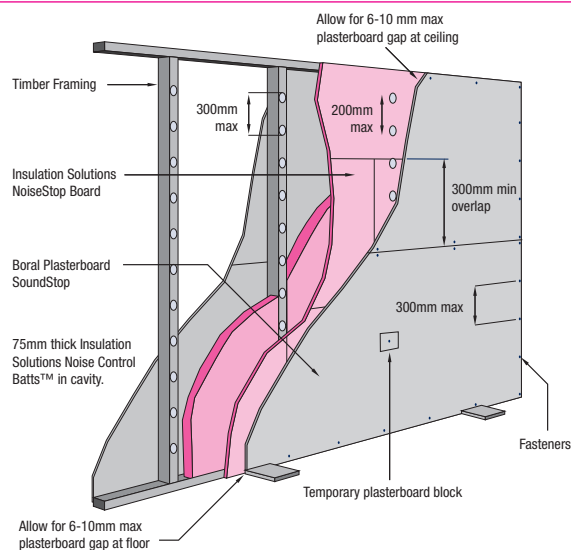
OTHER APPLICATIONS

Noise Stop Board can be used in composite wall and flooring systems to achieve an impact and airborne noise reduction to adjoining areas. Previous testing has shown that *Noise Stop Board*, used as a separating medium in floating floor and double leaf wall systems, will elevate the IIC (Impact Isolation Class) performance of the system

provided that rigid fixings through the board can be avoided. Its rigid but compressible characteristics together with its relatively dense fibrous structure mean that it has applications in both impact and airborne noise reduction when forming part of an overall building element design.

INSTALLATION INSTRUCTIONS

Noise Stop Board is fixed to studs with stud adhesive only, at 200mm centres vertically, with no gaps at board joints or floor/wall/ceiling junctions. Temporarily fasten with single screw until *Boral Plasterboard SoundStop* is installed. Conventionally fasten Plasterboard horizontally using combination of adhesive and mechanical fasteners. Apply stud adhesive to *Noise Stop Board* along studs at 200 max. centres at least 200mm away from screw points and sheet edges. Screw fasten Plasterboard along sheet edges and ends at 300mm centres. Butt joints in Plasterboard and *Noise Stop Board* must not be aligned. No fasteners required in field of board. Hold in place with temporary Plasterboard block fastened to centre stud.



SPECIFICATION NOTES

State the following:

- **Product name:** *Insulation Solutions Noise Stop Board*
- **Application:** Install to one or both sides of partition wall.
- **Specific locations:** eg: all internal framing studs.
- **Fixing method:** Panel or stud adhesive.

BIO-SOLUBILITY

The fibre used in this product is FBS-1 Bio-Soluble Glass Wool™ Insulation. This means that it dissolves in bodily fluids and is quickly cleared from the lungs. It complies with the test of short term

biopersistence in Note Q of [NOHSC: 10005 (1999)]. *Glass Wool* is classified as safe to use.



SUSTAINABILITY

Sustainability...measures that satisfy the needs of people today while enhancing the quality of life for future generations. The demands on non-renewable resources for the production of energy are not sustainable without compromising the environment. Insulation, correctly specified and installed, is one of the most critical products in

improving energy efficiency and reducing the levels of greenhouse gas emissions. *Insulation Solutions* is committed to providing environmentally sustainable products and utilises up to 70% recycled waste glass in the production of *Glass Wool* insulation.



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