

EXPOL R2.5 Underfloor Insulation

Product Technical Statement: 100890



Under timber floor thermal insulation. BRANZ Appraised.

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



EXPOL confirms that this minimum level of assurance has been met or exceeded by the following:



Technical Statement

Product Description

EXPOL's New Generation, high performance insulation range is consciously designed and engineered to meet the new Building Code Regulations introduced on 1 May, 2023.

Our goal is to reduce our carbon footprint and deliver dryer, warmer, healthier and environmentally friendly spaces.

Made from white Expanded Polystyrene that contains recycled content it is 1200mm in length, 100mm thick and manufactured in four standard widths 360, 410, 470, 560.

It is the ideal solution for normal New Zealand suburban environments or rural areas which do not have extreme temperatures.

EXPOL R2.5 contains recycled content and can be recycled.

Scope of use

EXPOL R2.5 UnderFloor Insulation is suitable for use as thermal insulation material in timber framed floors in new and existing residential and commercial buildings where the insulation remains dry during its serviceable life.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B2 Durability:** Performance B2.3.1(a)
- **Clause E3 Internal moisture:** Performance E3.3.1
- **Clause F2 Hazardous building materials:** Performance F2.3.1
- **Clause H1 Energy efficiency :** Performance H1.3.1, H1.3.2E

Notes

EPS INSULATION STANDARD

EXPOL Underfloor Insulation complies with the Australian and New Zealand Standard AS/NZS 4859.1:2002.

MANUFACTURING STANDARD

All panels have a yellow stripe down one edge to confirm compliance with manufacturing standard AS 1366 Part 3 1992 for SL grade.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

EPS INSULATION STANDARD

EXPOL Underfloor Insulation complies with the Australian and New Zealand Standard AS/NZS 4859.1:2002.

MANUFACTURING STANDARD

All panels have a yellow stripe down one edge to confirm compliance with manufacturing standard AS 1366 Part 3 1992 for SL grade.

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:

Product Criteria

masterspec partner

Company Contact Details



Company: Expol Limited
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Design requirements

Expol Underfloor insulation is a 60mm polystyrene panel with concertina cuts to assist with installation. This product is suitable for ALL timber floor situations, including pole houses. Expol Underfloor Insulation can be used for both existing and new timber floors.

SYSTEM COMPONENTS

WIRE GUARD EXPOL

Wireguard is a waxed paper strip used to separate exposed electrical cables from EXPOL insulation. EPS in some cases reacts with the plasticiser and degrades the elastic properties of some electric cables over a prolonged period.

FIXINGS

Non corrosive nylon fixings with a stainless steel nail are used to fix EXPOL panels in place, designed to suit both new and existing floor installations.

CONSTRUCTION ADHESIVE

EXPOL supplies a low solvent glue designed to adhere polystyrene to most surfaces. UnderFloor panels can be glued in place using this adhesive as an alternative or in combination with the nylon fixings.

Installation requirements

INSTALLATIONS INSTRUCTIONS It is important to achieve a tight friction fit between the edge of the board and the joist; this is achieved by the compression of the pre-cut concertina cuts to the edges of the panels. It is important that all gaps are filled and a tight fit on butt joints be achieved. Small gaps can be sealed with extra material, or a urethane foam. Expol nylon support brackets must be used, in line with the Manufacturers Instructions and Technical Literature, to achieve a 50 year serviceable life. Expol Insulation must be separated from all sources of heat and naked flame. PVC cables must be prevented from direct contact with any Expol Under Floor Insulation. A physical separation must be provided by running cables around the insulation boards, or by wrapping the cables with Wireguard supplied by Expol Ltd.

Company Product Information

Environmental

Expol Underfloor insulation is manufactured from 30% recycled material. All recovered polystyrene can be recycled by Expol.

Relationships



New Zealand Made

Videos

[EXPOL R2.5 Underfloor Insulation](#)



Date last validated: **03 October 2023**



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