

# GreenStuf<sup>®</sup> WOOL INSULATION

**GreenStuf<sup>®</sup> Wool Insulation is a blended thermal insulation for ceilings and walls in residential and commercial buildings. GreenStuf Wool Insulation is available in both pads and rolls and is ideal for placing between joists, trusses and studs. GreenStuf Wool Insulation contains a minimum of 50% wool fibre, where the remainder is a minimum 82% recycled polyester.**

## RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- B2 Durability: Performance clauses B2.3.1(a) and B2.3.2. GreenStuf Wool Insulation is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- E3 Internal Moisture: Performance E3.3.1. GreenStuf Wool Insulation R-values have been determined by testing to AS/NZS 4859.1:2018.
- F2 Hazardous Building Materials: Performance F2.3.1. There are no known hazards when using or handling GreenStuf Wool Insulation.
- H1 Energy Efficiency: Performance clauses H1.3.1(a) and H1.3.2E. GreenStuf Wool Insulation R-values have been determined by testing to AS/NZS 4859.1:2018.

## LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf Wool Insulation must be installed only when the building is enclosed and when construction materials are below their maximum allowable moisture content.
- GreenStuf Wool Insulation might not be suitable for some ceiling applications and some external wall applications as stipulated in NZBC C1-C6 Protection from fire. Please consult a fire engineer before specifying GreenStuf Wool Insulation.

## DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- GreenStuf Wool Insulation is designed to be friction fitted inside wall framing, and ceiling or roof framing members. GreenStuf Wool Insulation can also be laid directly over ceiling lining, over ceiling battens or joist/truss chords.
- Minimum separation of 25mm between GreenStuf Wool Insulation and any rigid substrate or flexible roof underlay must be ensured to prevent moisture transfer and provide roof ventilation.
- When using double layer insulation in purlin and skillion roofs, it might not be possible to achieve a 25mm gap between the underlay and insulation. In such cases, a ventilated cavity must be added between roofing and roof underlay.
- When GreenStuf Wool Insulation is installed in a wall with drained cavity, studs must be strapped to prevent insulation bulging into the cavity.

## INSTALLATION REQUIREMENTS

- GreenStuf Wool Insulation must be installed according to the Install Instructions included in each GreenStuf pack and NZS 4246.
- GreenStuf Wool Insulation must be released from packaging and allowed to re-loft prior to installation. The time to re-loft depends upon the length of time the product has been packaged and stored, as well as the environmental conditions it is left in after being taken out from its packaging.
- GreenStuf Wool Insulation must be neatly friction-fitted between framing members ensuring no gaps.
- When using double-layer insulation in truss roofs, lay the first insulation layer between ceiling joists and over ceiling battens, then the top insulation layer at right angles to, and over the top of the ceiling joists, leaving no gaps.
- When using double-layer insulation in skillion roofs, friction fit both layers between rafters.
- All of the ceiling area should be covered with insulation, including the top plates of exterior walls, except around heating flues, all recessed lights or non-ducted extractor fans.
- GreenStuf Wool Insulation should be dry prior to installation for optimal performance.
- Refer to NZS 4246 for required minimum clearances to heating appliances, light fittings and downlights.
- Where possible, insulation should be placed beneath electrical wiring or plumbing.
- GreenStuf Wool Insulation shall not be installed where it will be exposed to internal spaces.

## MAINTENANCE REQUIREMENTS

- GreenStuf Wool Insulation must not be compressed over its serviceable life. Compressing GreenStuf Wool Insulation can lead to reduced thermal performance.
- If GreenStuf Wool Insulation becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Cavities must be clean and dry before new insulation is placed.



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