



Batts and Roll Form

The total R-Value of the building system depends on the building materials, design and installation and may be less than, greater than or equal to the R-Value of this product. GreenStuf® polyester insulation products have an indefinite life and carry a 50 Year Product Durability Warranty.

The initial performance of this product may be reduced if it is stored for too long in its compressed packaging. Should this product be found to be compressed at installation, it will typically recover to its nominal thickness and R-Value within 72 Hours following installation. In cold conditions or where the product has been compression packed for transportation recovery may take up to 1 month. GreenStuf® will not settle or reduce its performance over time and if installed in accordance with these manufacturer's instructions, it will meet and exceed the 50 year durability clause criteria for minimum design life as set out in the ABCB guidance document Durability in Buildings 2006 (Section 2.4).

Safety Instructions

GreenStuf® 100% polyester insulation is completely safe and user-friendly and no protective clothing, specialist equipment or precautions are required to handle or install this product. GreenStuf® is non-irritant, non-toxic, and non-allergenic and that means no skin, throat or lung irritation on contact or following installation.

CAUTION: Electric cables and equipment partially or completely surrounded with any bulk thermal insulation may overheat and fail. Care must be taken to ensure this risk is avoided. Guidance is set out in AS/NZS 3000:2007 Wiring Rules.

Installation Tools

For retrofitting insulation, we recommend you have the following: step ladder, lamp and extension cord or torch, sharp scissors or wide blade snap/disposable knife, installing stick – such as a broom handle – used for pushing the insulation into corners and hard to reach places in the ceiling.

Installation Instructions

We recommend all thermal and acoustic insulation is installed in accordance with AS 3999:1992 Thermal Insulation of Dwellings - Bulk insulation, installation requirements. Copies of this Standard are available from Standards Australia.

Cutting to size – always cut GreenStuf® slightly oversized to ensure a tight friction fit. GreenStuf® rolls can easily be torn across the width by hand. GreenStuf® can be cut down the length of the Pad/Roll using sharp scissors or by compressing the insulation under a timber off-cut and then cutting through with a sharp wide blade disposable knife. Heavier and higher density products can be cut using a 'Swibo type knife'.

Insulate all areas of the wall and ceiling leaving no gaps. Off-cuts can be used to fill small spaces. Even small gaps will significantly reduce the overall thermal efficiency of the construction system. Do not compress insulation unless this is a design specification as this will affect the thermal performance.

Walls: GreenStuf® Roll Form product thicknesses vary with R-Value. Before you begin ensure you have the correct insulation to fit inside the wall cavity. GreenStuf® should be friction fitted inside the timber framing ensuring no gaps. All of the wall space in exterior walls should be insulated (i.e. from the top to the bottom plates).

GreenStuf® will not wick moisture however where a drained cavity wall construction is the use of stud straps to prevent insulation bulging into the cavity should be employed to achieve the Performance provisions of NCC Vol One FP1.4 or NCC Vol Two P 2.2.2. Straps should be run at 300mm centres over the wall underlay.

Ceilings: GreenStuf® should be friction fitted between the ceiling joists and over ceiling battens where possible, or laid at right angles over the ceiling joists ensuring no gaps. All of the ceiling area should be covered with insulation (i.e. to the top plates of the exterior walls) except around heating flues, non rated recessed lights and non-ducted extractor fans.

Start the installation at the furthest point from the ceiling manhole. Use the 'installing stick' to push the insulation into harder to reach places.

A 25mm ventilation gap between the roofing underlay and the insulation should be maintained at all times. A minimum gap of 200mm must be left around un-rated recessed down lights able to utilize halogen type bulbs. A 50mm gap is required around metal heating flues and brick / concrete chimneys. Do not cover ceiling vents – simply insulate around them.

Where possible, insulation should be placed beneath electrical wiring to allow access for maintenance and to prevent possible over-heating.

Double-Layer Ceiling Installation: For higher R-Value installations we recommend a 'double-layer' installation to reduce thermal bridging and heat-loss through the timber construction. Lay the first layer between the ceiling joists and over the ceiling battens, and the second layer at right-angles to, and over the top leaving no gaps except around heating flues, chimneys, non CA/IC rated recessed light fittings and non-ducted extractor fans as detailed previously.

Insulating Safely around Downlights

There are many different types of downlights available in the Australian market and without careful consideration, the thermal performance of buildings could be severely compromised.

Only specially designed and rated downlights allow the insulation to abut the luminaire. All others require the insulation to maintain a minimum clearance. There is significant fire risk associated with downlights, so careful selection of bulbs and fixtures as well as correct installation of the light fitting and surrounding insulation is crucial. Minimum insulation clearances around un-rated downlights are required for all types of insulation including polyester and fibreglass (glass wool) to reduce over heating and the risk of fire.

GreenStuf® Compliance

GreenStuf® Insulation complies with the standards present under AS/NZS 4859.1 AS1530 parts 3 for bulk insulation for down lights. AS/NZS 60598.1 and AS/NZS 60598.2.2 detail the test method and the maximum surface temperatures permitted for recessed luminaires.

GreenStuf® is manufactured in Australia by Autex Pty Ltd , Autex retains the right to change products and specific actions without prior notice. If a specific action is critical to end use situation please discuss your requirements with your Autex Account Manager.

GreenStuf® is a registered trademark of Autex Industries.

AUTEX



Autex Pty Ltd - Melbourne
166 Bamfield Rd,
PO Box 5099,
West Heidelberg, Melbourne,
VIC 3081 Australia
Phone **+61 3 9457 6700**
Fax **+61 3 9457 1020**

Freephone 1800 678 160
www.autex.com.au

Autex Pty Ltd - Perth
195 Bank St,
East Victoria Park,
Perth, WA 6101
Australia
Phone **+61 8 9355 1911**
Fax **+61 8 9355 1032**

www.autex.com.au

Autex Pty Ltd - Sydney
16 Bushells Place,
Wetherill Park,
Sydney, NSW 2164
Australia
Phone **+61 2 9756 3122**
Fax **+61 2 9756 3165**

www.autex.com.au

Autex Pty Ltd - Queensland
7-11 Lancashire Street,
Acacia Ridge,
QLD 4110,
Australia
Phone **+61 7 3712 4400**
Fax **+61 7 3712 4466**

www.autex.com.au