

TECHNOBOND®

UNDERFLOOR INSULATION BLANKETS

R1.6

MATERIAL R VALUE

TECHNOBOND COMPLIES WITH AS/NZS4859.1 FOR:

NOMINAL WEIGHT:	15.0 kg
NOMINAL TOTAL AREA:	17.4 m ²
MEAN THICKNESS:	100 mm
NOMINAL SIZE:	580 mm
ROLL LENGTH:	10.0 m
TECHNOBOND PIECES PER PACK:	3

APPROX. COVERAGE PER PACK:	17.4 m ²
DECLARED THERMAL RESISTANCE:	R1.6 k/w at 15°C
BATCH NUMBER:	
ROLL:	
INSTALLATION DATE:	
INSTALLED BY:	

CAUTION: Electrical cables and equipment partially or completely surrounded with bulk thermal insulation may overheat and fail. This applies to wiring installed prior to 1989.

READ THE INSTRUCTIONS ACCOMPANYING THIS PACK. REFER TO SAFETY ASPECTS ON REVERSE.

Allow 72 hours after installation to achieve nominal stabilised thickness and R-value. The performance of this product may be reduced if stored for too long in its compression packaging. The total R value depends on installation and may be greater or less than the R value of the product. The R value is determined at 15 °C.

MANUFACTURED IN NEW ZEALAND BY TECHNOBOND, a division of Ellis Fibre Ltd, 152 KAIKORAI VALLEY RD, DUNEDIN • 0800 55 88 22 • www.technobond.co.nz

SAFETY INSTRUCTIONS

Technobond® insulation is non-toxic and safe to handle without protective clothing however we do recommend coveralls, face mask, goggles and adequate lighting when fitting under floor insulation. Before installation we recommend reading the Insulation Association of NZ Booklet on safe practice when installing polyester insulation by contacting: Site Safe at: www.sitesafe.org.nz

WARNING: Prior to installation, please check carefully for all hazards that may cause injury.

Beware of sharp objects like protruding nails and broken glass.

Check drainage pipes for leakage of water or sewage. Repair before installation.

ELECTRICAL HAZARD

Treat all electrical cables as live. Before you begin you must locate and identify all wires and cabling to reduce the risk of electrocution. Recommend marking the area where hazards exist with glow spray paint for future reference.

Beware of electrical cables – stapling or nailing through wires may lead to death or serious injury. Leave a 50mm gap between staples and cables.

Wherever possible isolate power to this area before commencing work. Avoid covering and/or hiding electrical wires and cables. Where possible insulation should be installed above electrical wiring leaving all cables and wiring clearly visible.

Beware of damaged, exposed or hanging cables – contact a registered electrician to complete repair before starting installation.

CAUTION: Electric cables and equipment partially or completely surrounded with any bulk thermal insulation may overheat and fail. This applies to wiring installed prior to 1989.

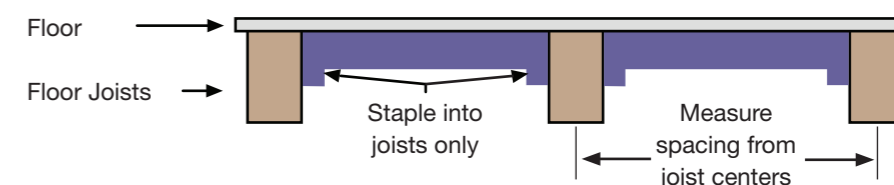
How to install Technobond® Underfloor Insulation Blankets.

Read all our instructions before beginning installation.

We recommend all thermal insulation is installed in accordance with NZS 4246:2006 Energy Efficiency – Installing Insulation in Residential Buildings. Copies of this Standard are available from Standards New Zealand.

TOOLS REQUIRED:

- Knife and blades
- Dust mask
- Ventilation goggles
- Staple gun
- Staples
- Multi LCD headlamp
- Protective clothing
- Tape measure
- Glow spray paint.



INSTALLATION INSTRUCTIONS:

Technobond® Underfloor has been designed to be installed between floor joists. There are three widths available – 450mm, 500mm and 580mm. Measure the distance between the center of your floor joists and select the size (see table below) that will allow additional blanket to be wrapped onto the joists (as shown above).

- Start installing in the furthest corner of the floor.
- Gently push the insulation up into the bottom of the floor boards. **Do not compress the product as this will reduce its effectiveness.**
- Adjust the blanket to wrap evenly onto the joists.
- Ensure blankets are smooth and even with no folds or creases and is flush against the floor. **Do not stretch the blanket to fit.**
- Staple in place (using a staple gun) every 150mm onto each **side** of the floor joists. **Within 200mm of an end or insulation join staple every 50mm. Do not staple directly onto the floor.**
- If blocks are present between the floor joists, ensure blanket butts up against the block. **Do not wrap the blanket over the block as this creates wind tunnels.**
- In coastal areas, especially within the sea-spray zone, we recommend you use stainless steel staples to eliminate corrosion.
- In high wind areas or exposed foundations lining should be installed to give protection to the insulation.
- Insulate all areas of the floor from exterior wall to exterior wall leaving no gaps by butting the blankets together. Off-cuts can be used to fill small spaces. Do not enclose exterior wall cavity.
- For 40/50mm waste pipes leave 100mm gap around the pipe. For all other pipes tear the blanket from one side and wrap around the pipe fixing securely to the joists on each side.
- On completion remove all plastic bags and leftover product from the underfloor space. Ensure that there are gaps, creases or folds. Check that all electrical and TV cables have not been damaged.
- Take a label from the installed blanket and staple alongside the access where it can be easily found during a subsequent inspection.

Cutting to size:

- Always cut Technobond® slightly oversized to ensure a tight fit. Technobond® rolls can be easily torn across the width by hand if necessary.
- Technobond® Underfloor should not require edge trimming however if do you require to cut down the length of the roll use sharp scissors or cutting through with a sharp wide-blade knife.
- For joist sizes below 350mm, material can be cut to width and installed as a segment.

Roll width size options:

Roll width (mm)	450	500	580
Joist centers	400 – 475	475 – 525	525 – 600
Joist spacing	350 – 425	425 – 475	475 – 555

Technobond® polyester insulation products have an indefinite life and carry a 50 year 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 recover to its nominal thickness and R-Value within 72 hours following installation. Technobond® will not slump or lose its loft over time, and if it is installed in accordance with these manufacturers instructions, will meet and exceed the 50 year durability clause of the NZBC (B2.3.1(a))