

# Technical Data / Producer Statement

**WARMAFLOOR**  
INSULATION



## PRODUCT DESCRIPTION

Warmafloor is a Polyester fibre blanket manufactured specifically for placing between floor joists, against the underside of the floor. This blanket has superior strength in both directions and tighter surfaces than other typical polyester ceiling, wall or floor blankets or batting.

The rolls are uniquely sized to facilitate handling in confined sub-floor spaces and can be torn readily to suit joist length.

## PERFORMANCE

### Thermal Effectiveness (NZBC H1, AS/NZS4859.1:2002)

Uninsulated floors have a thermal resistance of R0.6, which can be improved to R1.6 or R1.8 with Warmafloor Blanket System correctly fixed against the floor, between the floor joists in most buildings with a continuous sub-floor perimeter wall. It also reduces draughts through gaps between uncovered timber strip floors.

Compliance with NZ Building Code (NZBC) clause H1.3.1 (a) and H1.3.2 with Warmafloor is achieved via H1/AS1, clauses 2.1, 2.2 and 2.3. Alternatively, should installers complete a design on an individual building in accordance with NZS4218 calculation method, other R values specified in Table 1 will comply.

## DURABILITY

Warmafloor blanket will satisfy the requirements of NZBC clause 2.3.1(a) & B2/AS1 Table 1 of 50 years durability in dry, suspended timber floors.

### Corrosiveness

Warmafloor blanket does not promote corrosion on metal building components.

### Moisture Effects

Warmafloor blanket is unaffected by humidity or water. It can contribute to NZBC section E3.3.1 and complies with E3/AS1, section 1.1. If wetted, thermal resistance will be completely restored, when dried.

Table 1 - Moisture Absorption

|                        |      |
|------------------------|------|
| After 96 hrs at 90% RH | < 2% |
|------------------------|------|

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0800 267 992 | [www.floorinsulation.co.nz](http://www.floorinsulation.co.nz)

## TABLE 2 - THERMAL RESISTANCE WARMFLOOR - SUSPEND-

| Nominal size (both R values) | Pces/m2 per Bale | Thick mm | R (m <sup>2</sup> °C/W) |       |
|------------------------------|------------------|----------|-------------------------|-------|
|                              |                  |          | Bale                    | Total |
| 5.0x0.51m or<br>4.18x0.61m   | 3/7.65           | 80       | 1.3                     | 1.6   |
| 5.0x0.51m or<br>4.18x0.61m   | 3/7.65           | 90       | 1.5                     | 1.8   |



## APPLICATIONS & LIMITATIONS

Warmafloor blanket is designed to provide effective thermal insulation for timber suspended floors. It is not suitable for areas unprotected from water ingress.

## BUILDING CODE COMPLIANCE

This designated "Design", "Construction" or "Construction without Building Consent" statement covers the use of Warmafloor to meet or exceed the NZ Building Code sections B2, E3, F2, H1 requirements, when used in buildings at any geographical location in accordance with this document.

For floors, BCA's need only inspect that material thickness is in accordance with the thermal effectiveness design specified.

## SAFETY

### Fire Properties

Polyester is classified as a combustible material, but contains a flame retardant additive.

| Property        | EFH Index |
|-----------------|-----------|
| Ignitability    | 0         |
| Heat Evolved    | 0         |
| Spread of Flame | 0         |
| Smoke developed | 0         |

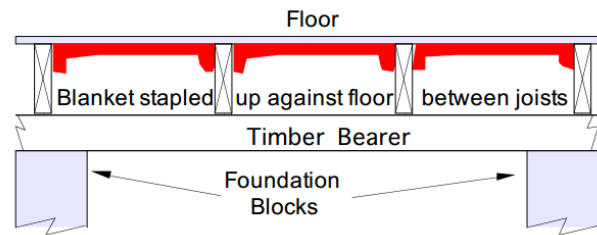
### Health Effects

Warmafloor complies with NZBC section F2.3.1, as non-hazardous material. The product does not represent a health risk to installers or occupiers of insulated buildings.

Warmafloor is not dusty or a skin irritant, however face masks and overalls should be worn when working with all insulation materials.

## INSTALLATION

A hammer stapler, 8-12mm staples, protective overalls, face mask & goggles are required to install floor insulation. Avoid any bare wires and do not staple within 50mm of any wire.



Start at the end of one joist, push Warmafloor Blanket up between the joists, until it touches the floor. Adjust so the side laps are equal, staple through the lap fold into one joist, pull tight and staple the other lap fold to the adjacent joists. Continue stapling at about 1m centres (or 0.5m if animals can reach the material) and at joist laps, ensuring there are no edge gaps.

Feed the blanket over the next bearer and butt joint the next blanket. If the roll is too long, hand tear to length across the roll. Wherever pipe or wires protrude through the floor tear the blanket from one side and wrap around the pipe. Width trimming should not be necessary, but can be cut with shears or scissors.

