

GENERAL

Mammoth™ Thermal Break is a lightweight, flexible 100% polyester, semi rigid board that provides thermal separation between steel framed construction and external cladding. In addition to preventing condensation on steel frame elements, Mammoth™ Thermal Break significantly contributes to the overall thermal performance of walls.

BEFORE YOU GET STARTED

SAFE TO INSTALL

- It won't irritate your skin when you touch it – in fact it is made from the same material that you may find in your pillows and duvets
- For further safety information on installing insulation refer to NZS 4246 Appendix B and the HSE Act

EASY TO INSTALL

- Manufactured in semi-rigid board, it is easy to install
- It is easy to cut to accommodate required services

RECOMMENDED TOOLS

- Tape measure
- Sharp knife with replaceable blades or specialised insulation saw, such as Bacho
- Ladder
- Air pressure nail gun with 30mm galvanised flat head nails, suitable for steel framing or an EVA contact adhesive
- Protective eyewear
- Vivid or permanent marker

SAFETY PRECAUTIONS

When installing Mammoth Thermal Break, please take the following precautions:

Lighting & Downlights

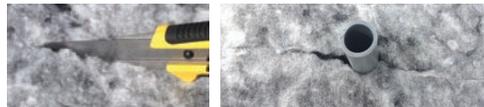
- Take note of all lighting and ensure all clearances are adhered to for the classification of light fitting
- Follow light fitting manufacturer's instructions for clearances between the light and insulation as required. If these instructions are not available, we recommend a minimum clearance between the light fitting and insulation of 100mm

Electrical Wires

- Take note not to damage service cabling, such as electrical, phone, data & alarm - treat all cables as live

Cutting

- Mammoth Thermal Break is easy to cut with a specialised insulation saw or sharp craft knife
- Mark any requirements for services, such as water/gas pipes, electrical cables, etc with a vivid or permanent marker and cut a slit (or X) using the sharp craft knife. Simply push the piping or cables through



Other Hazards/Obstructions

- Airconditioning units/ducts
- Extractor fans
- Plumbing services and pipes
- Sprinkler units
- Smoke alarm

HOW TO INSTALL MAMMOTH™ THERMAL BREAK - Factory Assembly

Mammoth™ Thermal Break is designed to be fitted to steel frame buildings on site or factory assembled. Factory assembled is recommended as it has a number of advantages:

- Weather conditions not hindering installation
- Frame is easily accessible as it is lying flat
- Accuracy of measure and installation
- Cutting is kept to a minimum

We recommend the following installation procedures:

1. Mark all the connection points on the edge of the frame with a Vivid or permanent marker (fig. 1). This will help identify these points at a later stage after the thermal break is fitted.

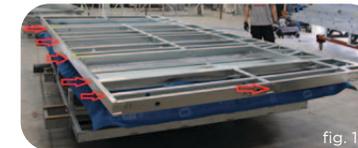


fig. 1
Frame connection points.
NB: not every connection point is marked.

2. Lay a sheet of Thermal Break on the outer side (external facing side) of the frame, as per fig 2.
NB: Thermal Break has a rough and smooth side - the rough side should be facing inward.



fig. 2

3. Align the sheet of Thermal Break onto the steel frame then simply fix with the nail gun around the corners.
NB: Ensure the nails are applied away from the framing screws - allow 40-50mm clearance from the corners and all connection points.



fig. 3

4. Fix Thermal break around the frames corners. It is best to ensure that adjacent sheets of Thermal Break are joined on a stud so the join is not suspended - Sheets may need to be cut to achieve this.

5. Once the entire frame is covered, trim excess Thermal Break from the frame. Avoid cutting the zinc coating as this may affect durability of the frame.

6. At this stage, if a building membrane is to be fitted, roll it out on top of the fitted Thermal Break and nail fix according to manufacturers specifications, but ensure the centres are less than 300mm apart.
NB: If no building membrane is to be fitted, proceed with nailing the Thermal Break to the frame at 300mm centres.

Manufactured by: InsulPro Manufacturing Ltd
27 Birmingham Road, East Tamaki, Manukau 2013



THERMAL BREAK SAFETY AND INSTALLATION GUIDELINES

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HOW TO INSTALL MAMMOTH™ THERMAL BREAK - Site Installation

Mammoth™ Thermal Break is designed to be fitted to steel frame buildings on site or factory assembled.

BEFORE YOU GET STARTED

- Sheets of Mammoth Thermal Break must be clean and dry prior to installation. If they are wet, ensure they are left to completely dry before commencing installation.
- Check the short range weather forecast before commencing installation as fine weather is essential to allow the adhesive to cure before exposure to the elements. Once adhesive has cured, the sheets can get wet as they will dry when weather conditions improve.

We recommend using the following installation instructions for site installation of Mammoth Thermal Break.

NB: In fine, windy conditions, begin installation from the side of the building exposed to the wind.

1. Apply EVA contact adhesive to the outside of the framing. Make sure that all nogs and diagonal bracing also have glue applied.
2. Push the Thermal Break sheet firmly against the glued frame and hold.



3. While someone is holding the sheet in place, secure each corner with self-tapping screws. This ensures the sheet remains in place while the glue is setting.

NB: These screws can be removed once the adhesive has cured so they don't create additional obstacles for installation of wall insulation.

4. Continue installing sheets of Mammoth Thermal Break, making sure that all joints between the sheets are firmly butted together without gaps, creases or tucks.

NB: For ease of installation and product longevity, ensure the joints between sheets are on studs and/or nogs.

5. After the glue has set, if necessary, trim the edges using a Bahco insulation saw or sharp craft knife. Avoid cutting the zinc coating as this may affect durability of the frame.

NB: Mammoth Thermal Break can extend below the bottom plate for additional thermal performance. However, it must not protrude below the bottom edge of the external cladding.



Fixing to Soffits/Eaves

Use self-tapping screws or nails at 600mm centres when fixing Mammoth Thermal Break to soffits/eaves. Only commence installation once the soffit/eave is no longer exposed to the elements.