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INSTALLATION GUIDELINES / BEST PRACTICE

Application

Installation Guideline/Best Practice is a guide for the installation of Thermacon Building Blanket/Formaldehyde Free Roofing Blanket in residential metal roofing applications.

What is Thermacon Building Blanket/Formaldehyde Free Roofing Blanket?

Thermacon Building Blanket/Formaldehyde Free Roofing Blanket is supplied in 1.2m wide rolls and is available unfaced and foil faced. When used in metal roof applications, the product is supplied with a foil facing on one side and in tropical climates, the product will have foil facing on both sides. The foil facing is 1.350m wide which allows for 150mm foil overlap for joining and overlapping. Please refer to the technical data sheet for product information (links below).

https://thermacon.com.au/wp-content/uploads/2024/01/Thermacon-Building-Blanket-revision-7-12.01.24.pdf
https://thermacon.com.au/wp-content/uploads/2025/07/Thermacon_Formaldehyde_Free_Roofing_Blanket_18_04_2025.pdf

Notes

- All insulation should be installed according to AS 3999:2015.
- A safety assessment should be conducted prior to starting the job to ensure all site safety requirements are met.
- Electrical equipment and cables covered by Bulk Insulation may overheat. (Refer to AS 3999:2015)
- Thermacon Building Blanket/Formaldehyde Free Roofing Blanket are manufactured with a factory foil facing which is an electrically conductive material and care must be taken when installed near electrical cabling and equipment. If in doubt refer to a Licensed Electrician.
- Thermacon Building Blanket/Formaldehyde Free Roofing Blanket are suppled in PE bags and must be protected from the elements. It must be kept dry before, during and after installation.
- Ensure Thermacon Building Blanket/Formaldehyde Free Roofing Blanket is installed to avoid gaps except when installed around electrical fittings or as specified according to the service penetrations.
- Use appropriate sizes cut to suit the areas being installed and avoid small offcuts.
- When cutting the insulation ensure a sharp knife is used.
- Allow 5-10% for wastage, subject to the roof design.

Installation – Residential

- Thermacon Building Blanket/Formaldehyde Free Roofing Blanket should be installed with the foil facing the inside of the building with the Glasswool against the underside of the metal roof. In tropical areas, the insulation can have foil facing on both sides of the blanket subject to specification requirements.
- Thermacon Building Blanket/Formaldehyde Free Roofing Blanket is supplied in 1.2m wide rolls and the foil facing is 1.350m which allows for a 150mm overlap. This allows for each roll to be installed on each overlap and successive rolls to follow ensuring the Glasswool is butted up firmly against each roll.
- Thermacon Building Blanket/Formaldehyde Free Roofing Blanket shall be overlapped not less than 150mm.
- Thermacon Building Blanket/Formaldehyde Free Roofing Blanket can be installed over roof battens with the Glasswool continuously in contact with the metal roof.
- Thermacon Building Blanket/Formaldehyde Free Roofing Blanket can be installed in a vertical installation and horizontal installation as shown below.
- Care should be taken during installation to avoid puncturing or tearing the foil facing. Any tears and rips should be taped with 939 Foil Tape or equivalent.
- If the specification calls for the foil facing to be a Vapour/Air Barrier/Water Barrier all laps should be taped as per AS/NZS 4200.2 and the foil classification determined.

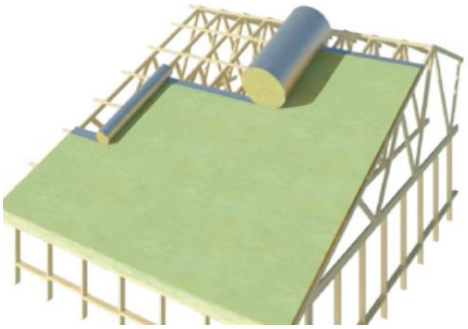


Figure 1: Horizontal installation

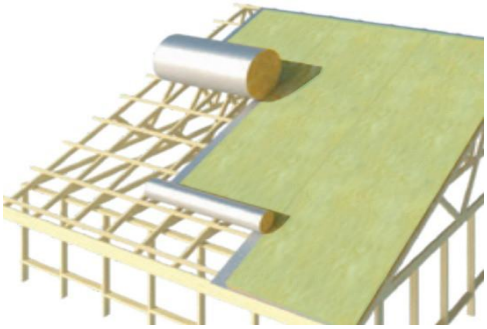


Figure 2: Vertical installation

Residential Guttering Detail

For Roof Pitch above 10 degrees

- Trim Glasswool at the external edge of the fascia leaving foil to external 25mm section draping into the gutter.
- Alternatively, trim the Glasswool and fold the foil facing back onto itself to form a bull-nosing effect or simply fold the product back onto itself to form the bull-nosing effect.
- Anti-ponding board can be installed if needed.

For roof pitches less than 10 degrees

- Thermacon Building Blanket/Formaldehyde Free Roofing Blanket should be either folded over on itself at the external edge of the Facia or trim the Glasswool and fold the foil facing back onto itself to form a bull-nosing effect. Install anti-ponding board if needed.
- Ensure the Glasswool Insulation does not drape into the gutter as this could allow water movement into the roof.

- Reference should be consulted as per specification for BAL Roof Requirements AS3959 prior to starting the project.

Figure 3: Correct gutter trim

Trim glasswool and allow foil to drape into gutter

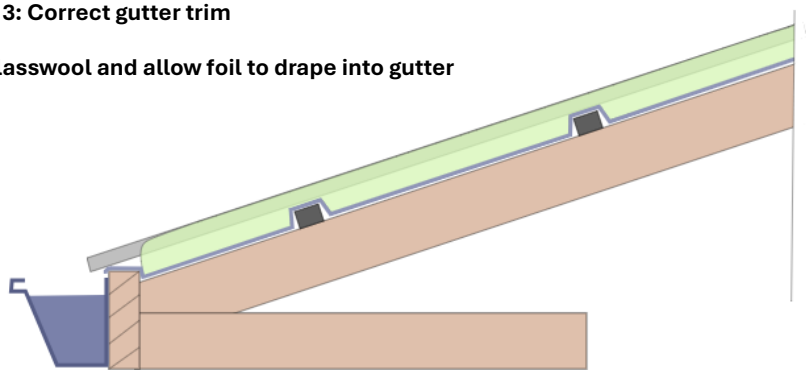


Figure 4: Correct gutter trim low pitch (<10°)

Trim glasswool and fold foil facing back to form a bull-nosing effect

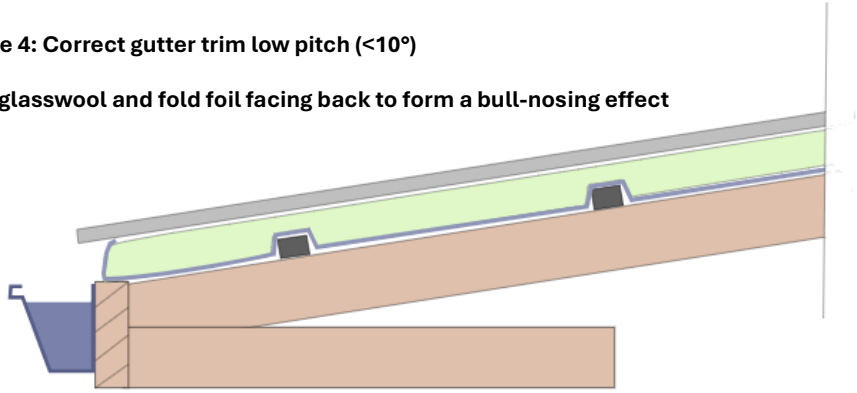
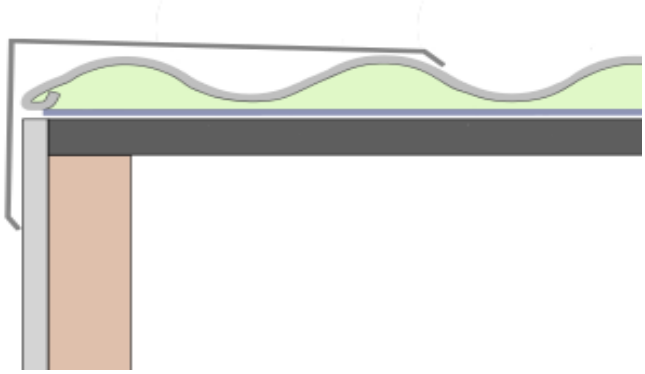


Figure 5: Apron trim

Trim glasswool and fold over 150mm of foil facing



Valley Detail

- Trim the Glasswool to reduce the risk of the edge meeting the water pathway.
- The Glasswool can be folded back or trimmed from the flashing leaving the foil facing at the flashing edge but ensure not in the water pathway.