Installation sheet Reflecta-Range™ of products

Residential Roofs

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REFLECTA-RANGE™ PRODUCTS
Reflecta-Guard™
Reflecta-Cell™
Reflecta-Shield™

Phone: 1300 308 165
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Correct Installation Method for Residential Roofs

Correct Installation of Insulation

Like all other building products, insulation performs best when it is installed correctly. It is possible to install any of the **Reflecta-Range™** products over roof battens, however the ABCB condensation handbook clearly recommends that condensation management is best provided when the roof and insulation are separated. Installation requires an attention to detail to ensure compliance with Building Code requirements and to effectively manage condensation.

Once you have chosen the suitable **GI Building Sciences™ Reflecta-Range™** product (**Reflecta-Guard Plus™**, **Reflecta-Cell Plus™**, **Reflecta-Shield Plus™**) for your project, simply follow the instructions below.

1. Having provided appropriate fall arrest to the building roll out the **Reflecta-Range™** product across the top of timber trusses and install roof battens to permanently fix, or where decided fix roof battens to trusses and roll over roof battens.

2. Allow a sag to achieve a nominal air space of 40mm between the product and roof sheeting.

3. Roll out the next roll of Insulation overlapping by no less than 150mm. For the best seal for condensation management a 72 mm wide (or greater) reinforced aluminium tape to join. Alternatively, a 24-48mm wide double sided cloth tape can be used to provide a concealed adhesion between the overlap.

4. Roof sheeting can then be installed by screwing through the **GI Building Sciences™** product to the steel purlins or timber roof structure.

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Commercial Roofs

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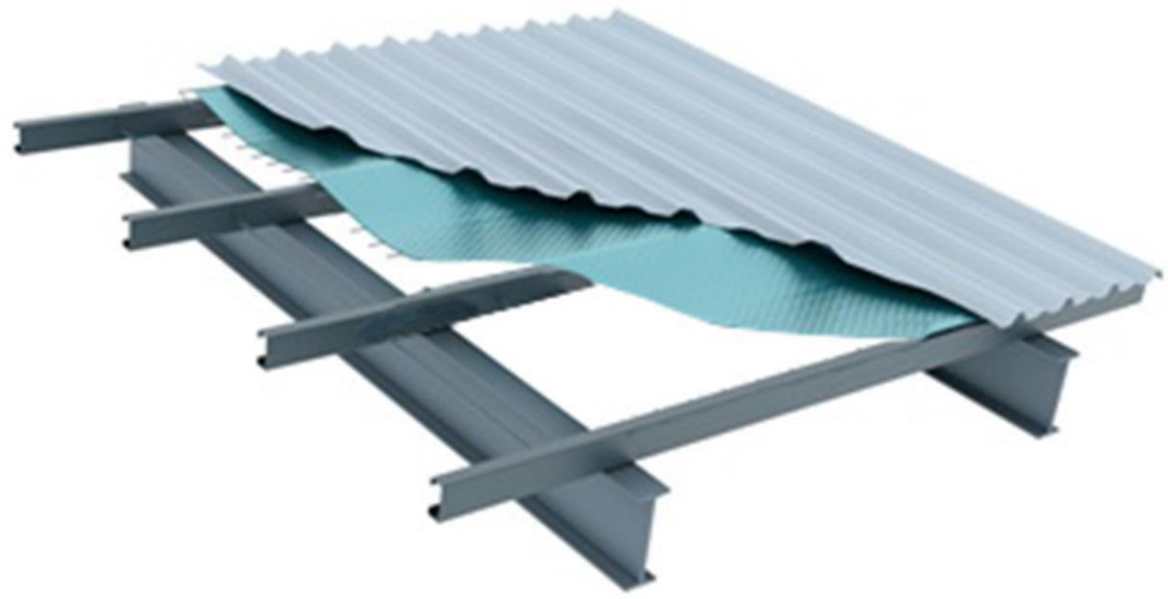
Correct Installation Method for Commercial Roofs



Correct Installation of Insulation

Like all other building products, insulation performs best when it is installed correctly. Whether a bulk insulation that requires spacers or a reflective insulation that is installed directly under roof, installation requires an attention to detail to ensure compliance with Building Code requirements and to effectively manage condensation.

Once you have chosen the suitable **GI Building Sciences™ Reflecta-Range™** product (**Reflecta-Guard Plus™**, **Reflecta-Cell Plus™**, **Reflecta-Shield Plus™**) for your project, simply follow the instructions below.

1. Having provided appropriate fall arrest to your building *(where required under the NCC)*, roll out the **Reflecta-Range™** product across the top of steel purlins or timber roof structure.

2. Allow a sag to achieve a nominal air space of 40mm between the product and roof sheeting.

3. Roll out the next roll of insulation, overlapping 50mm (minimum).

4. Where overlapping is less than 50mm, use 72 mm wide (or greater) reinforced aluminium tape to join. Alternatively, a 24-48mm wide double sided cloth tape can be used to provide adhesion between the overlap.

5. Roof sheeting can be installed by screwing through the **GI Building Sciences™** product to the steel purlins or timber roof structure.

Installation sheet Reflecta-Range™ of products

Walls

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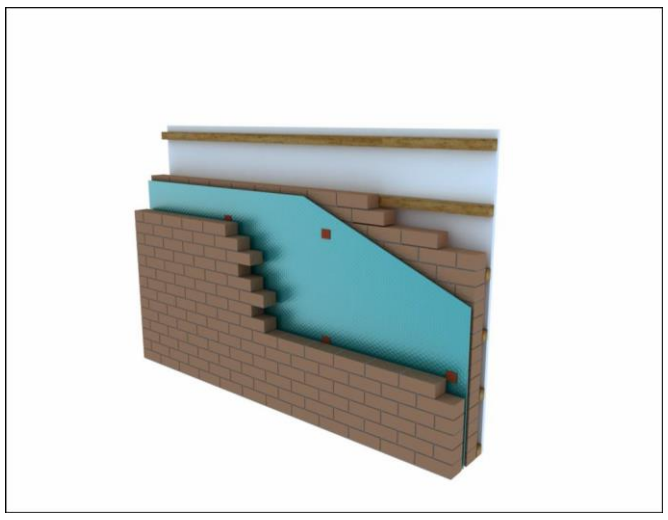
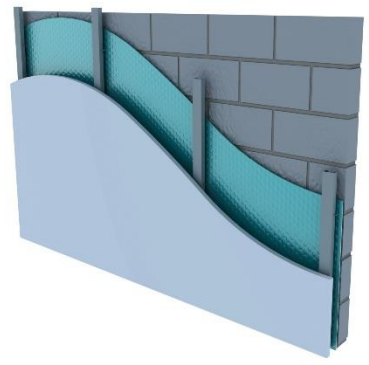
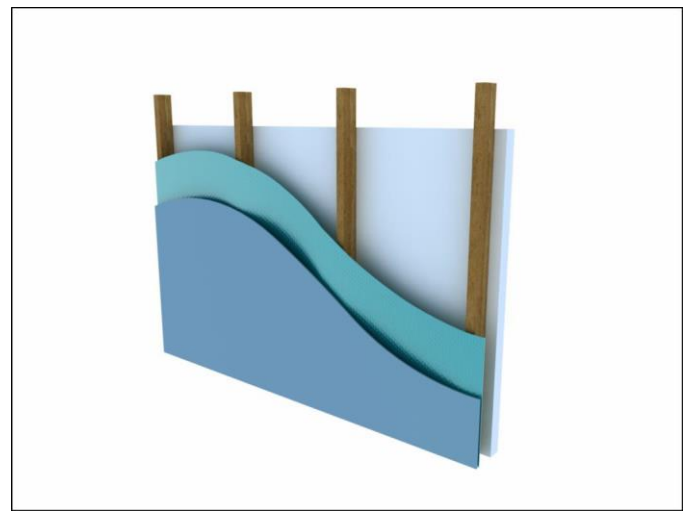
Correct Installation Method for Walls







Correct Installation of Insulation

Metal and Timber Frames – With Brick or Lightweight Wall

1. Roll out the suitable **Reflecta-Range™** insulation product horizontally on the outside of studs or framing.
2. Install the product from the bottom of stud or framing.
3. Roll out the next roll of Insulation allowing 150mm overlap (residential building) or 50mm overlap (commercial building).
4. Where overlap is less than 50mm or 150mm, use 72 mm wide reinforced aluminium foil joining tape.
5. Allow a nominal air space of 25 mm either side of the Insulation to achieve required R-values. This is easily achievable by pushing Insulation inwards between the studs.

Double Brick Cavity Wall

1. Construct internal brick wall with wire ties in place.
2. Install Insulation from bottom of the wall.
3. Roll out the **Reflecta-Range™** product horizontally across the wall on top of wire ties
4. Slit Insulation with sharp knife or push wire tires through Insulation.
5. Overlap installed Insulation by 150mm (residential building) or 50mm (commercial building).
6. Where overlap is less than 50mm or 150mm, use 72 mm wide reinforced aluminium joining tape (available from Insulation).
7. Allow a nominal air space of 25 mm either side of the Insulation to achieve required R-values. This is easily achievable by pushing Insulation inwards between the brick cavity.

Masonry or Tilt Panel Wall using Metal Battens

1. Construct block wall or tilt panel wall and install adjustable furring channel clips (Eg. Betafix/ BETAFIL)
2. Roll out the **Reflecta-Range™** product horizontally across the wall over the top of furring channel clips.
3. Slit Insulation with sharp knife so the clip can pass through the Insulation. The slit should only be big enough to allow the leg(s) of the clip to pass through the Insulation.
4. Push the insulation onto the clip to provide a 25mm airgap to both the front and back of the insulation. An insulation spacer may also be used to assist with this.
5. When installing the next run of insulation overlap by 150mm (residential building) or 50mm (commercial building) and tape to suit AS4200.2.
6. Clip Furring Channels/ Battens into clips to secure insulation. Fix linings as normal.