Thermakraft™
AUSNET

Wire mesh for supporting roofing products

Ausnet is a galvanised steel wire mesh for used to support roof underlays, foils and glass wool insulation. Ausnet is easy to install and can be used on timber and steel framing. The product consists of a pattern of woven flat hexagonal shaped wires.

Product usage

Compatibility

Apply in conjunction with roofing materials that comply with standard NZS 3604:2011 section 10 and 11. This includes roof cladding types profiled metal, masonry tile or metal tile. Roof pitch should be greater than 3 degrees.

BRANZ **Appraised**
Appraisal No.1029 [2018]

Kingspan®

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Operating conditions

Product should be enclosed within the dry roof space with no direct exposure to the weather upon the roofing completion work.

Product should not be installed in a roof space where air extraction, air ventilation, kitchen exhaust fan or dehumidifying devices are venting directly into the roof space.

Product must not be continuously exposed to a corrosive environment and/or high relative humidity environment greater than or equal to 90%.

Note: When Ausnet is installed as per Kingspan's installation instructions and BRANZ Appraisal No. 1029 [2018], the product will meet the requirements of the New Zealand Building Code B2 Durability.

Application Method

General Application: Ausnet must be run continuously across roof rafters, top truss chords or across purlins and be fixed in place.

Roofing underlay that requires an intentional sag as per the building design to facilitate water drainage must have the wire mesh installed with a sag to accommodate the underlay. Where roofing underlay does not require any sag, the wire mesh must be pulled taut.

Application Direction: The installation direction of the Ausnet mesh must be the same as the underlay, foil or insulation's installation direction. For example, if the synthetic underlay is installed from the top point of the roof to the lowest point (vertically) then the Ausnet mesh will need to follow the same direction.

Application Tips:

- Joining between cut sheets along roof rafters, trust chords or purlins must NOT be carried out as sharp cut wire edges can pierce or puncture the roof underlay.

- Any cut wire edges on the roof gutter end must be covered by the metal flashing so that the cut wire will not pierce through or puncture the roof underlay. Inspections must be carried out by a qualified builder on site to ensure this is completed satisfactory before installing the roofing underlay.

- Ausnet must not be exposed to weather for more than 3 days before roof cladding is installed.

Fixings

Timber Framing: Use stainless steel staples, galvanised flat head clouts or fencing batten staples that are at least 25mm in length.

Steel Framing: Use fixings with an appropriate coating for external use (Class 4 to AS3566.2:2002 requirements) or stainless steel self-tapping screws. Note, the self-tapping screws must project through the steel frame by at least 10 mm.

Spacing: At the wire mesh ends, fixing must be applied at 150mm intervals so that the mesh cannot be pulled through the fixings.

Fixing Tip: The fixing location of screws, flat head clouts, fencing batten staples or stainless staples must NOT be directly through the mesh's wire twist points as this can result in damaging the steel wire.

Handling and Storage

Ausnet must be handled with care to prevent damage such as wire scratches and dents. The product must be stored under cover away from direct moisture and rainfall contact.

The product must NOT be stored on soil, lawn or concrete floors for long periods as moisture from the ground can accelerate the corrosion reaction on the galvanised coating.

Care should be taken not stack other materials on top of the product.

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Thermakraft and Ausmesh products are brought to you by Kingspan Insulation NZ Limited.

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