

Roof Safety Mesh



# AUSMESH™

## Galvanised Roof Safety Mesh

Galvanised Roof Safety Mesh



- Roof underlay support and fall safety mesh
- Fall protection during construction and a permanent safety feature of the building
- Suitable for industrial, commercial and residential projects
- Can be used with steel or timber framing
- Suitable for use in supporting ThermoKraft and AIR-CELL roof underlay products
- Constructed of tensile galvanised wire
- AS/NZS 4389:2015 compliant



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# Product Data

## Product Description

Kingspan Ausmesh is a roof underlay support and fall safety mesh for use on a variety of commercial buildings. Ausmesh is constructed of tensile galvanised wire exceeding 450MPa and when used for roofing becomes a permanent fixture in the building.

**Kingspan Ausmesh comes in sizes up to 2400 wide and can be cut to length for efficiency:**

Roll Dimensions	Cut to Length
1800mm x 50m	Available cut to length*
2250mm x 50m	Available cut to length*
2400mm x 50m	Available cut to length*

\* Note: Production time allowance may vary - contact your Kingspan Insulation Representative for more information.

## Scope of Use

- Roof safety mesh as a primary means for fall protection when working at heights in domestic, commercial and industrial building applications that use steel or timber structure.
- Suitable for the support of foil underlays in exposed roof spaces, and synthetic underlays (Kingspan Thermakraft Covertek 407) in enclosed roof spaces.
- May be used to support insulation. Usage intent and compatibility must be checked by the designer with the insulation manufacturer.

## General

- Constructed of 2mm tensile galvanised steel wire.
- Longitudinal wires are spaced at 150mm centres with cross wires spaced at 300mm centres forming a rectangular shape.
- Roof application only for fall protection and underlay support.

## Limitations

- Only to be used in enclosed buildings.
- Not recommended for use for exposed structures such as canopies or awnings as it will compromise the durability of the roof safety mesh.
- Not recommended for use for coastal or seashore and high internal moisture loading buildings.
- Not to be exposed to sunlight, dust, rain or other weather elements for more than 7 days. Recommended same day coverage by roof cladding.

## Compliance

- Kingspan Ausmesh complies to AS/NZS 4389:2015 standard (Roof Safety Mesh).

## Durability

Meets the Performance Requirements outlined in AS/NZS 4389:2015 standard provided that:

- It is not damaged.
- It is only used in accordance with the Product Limitations set out on this Product Data Sheet.
- It is installed in accordance with the written instructions.
- It is installed in accordance with the requirements of the relevant state or territory's building authority.
- It is compatible with building structure materials used\*.

\* Note: Specifiers and product user must test for building structure materials' compatibility with Kingspan Ausmesh before installation.

## Product Data

	1800mm wide	2250mm wide	2400mm wide
Length	Standard roll size 50m		
Weight	~23.5kg per roll	~29kg per roll	~31kg per roll
Mesh Size	300mm x 150mm		
Wire Diameter	2mm galvanised		
Tensile Strength	Standard AS/NZS 4389:2015		
- Crosswire/Transverse Wire	Min 450 MPa		
- Line Wire/Longitudinal Wire	Min 500 MPa		
Wire Coating	Standard AS/NZS 4534:2006 WO2		

# Installation Instructions

## Application Method

There are strict requirements for the installation of safety mesh so that it meet its safety and durability performance. The installer must refer to the AS/NZ 4389:2015 for the full installation requirements and fixing details. Ausmesh must be installed in accordance with the requirements of the relevant state or territory's building authority. Below is a brief overview of the installation of Kingspan Ausmesh.

- Crosswire or transverse wire should face up and longitudinal wire should face down.
- Roof safety mesh shall be pulled taut to ensure only a natural sag between each purlin or roof member. This natural sag shall not be modified to create artificial sag.

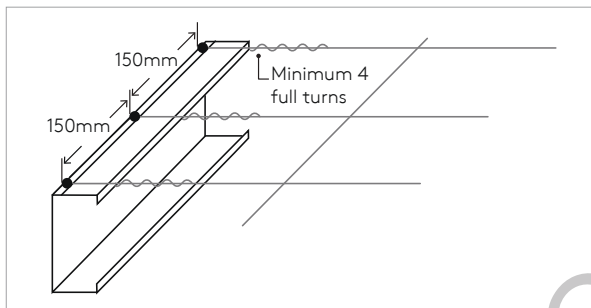


Figure 1. Longitudinal wires passed through holes drilled in purlins.

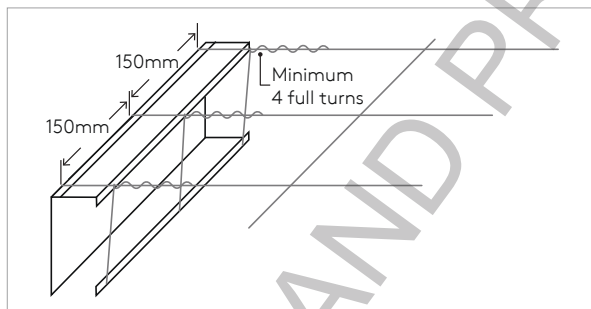


Figure 2. Longitudinal wires wrapped around steel or wood purlins.

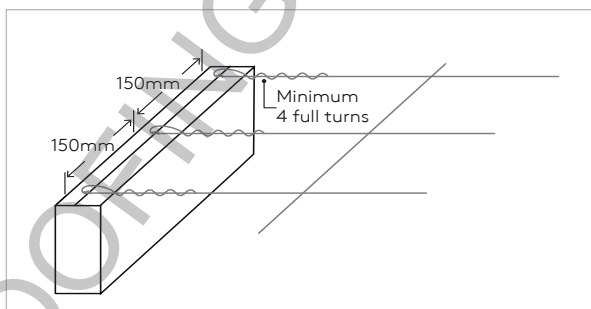


Figure 3. Longitudinal wires passed through 40mm long x 3.5 diameter staples.

## Single side laps:

- Purlins less than 1200mm - mesh to be lapped minimum 150mm.
- Purlins 1200-2199mm - mesh to be lapped min 150mm and side lap to be fastened with 2mm ring fastener at 900mm max centres between each purlin.

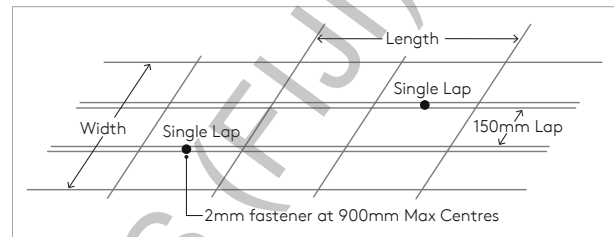


Figure 4. Single side laps.

## Double side laps:

- Purlins 2200mm or greater to be side lapped min 300mm and side lap to be fastened at max 600mm centres between each purlin - laps to be fastened on both sides of the lap.

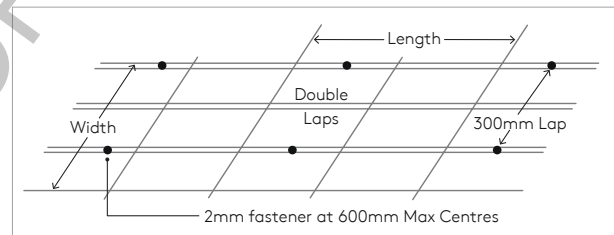


Figure 5. Double side laps.

## End joints in wire:

Two transverse wires are placed together. The longitudinal tail wires (approx 300mm long) are tied around each other, one being twisted four times around the main portion of the same wire, the other longitudinal wire twisted once around the main portion of the same wire then four times around the two transverse wires.

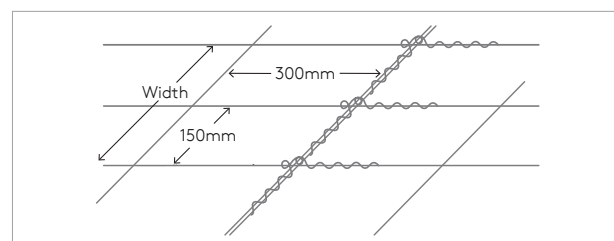


Figure 6. End joints in wire.

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## Other Information

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### Handling and Storage

Kingspan Ausmesh must be handled with care to prevent damage such as scratching the wires and deforming the roll.

The product must be stored under cover well away from direct moisture, rainfall contact and sunlight (UV). Care should be taken not to stack other materials on top of the product.

### Product Warranty

Kingspan Ausmesh is warranted for a period of 10 years. Refer to Kingspan Ausmesh Warranty Statement for further details. This is available online at [thermakraft.com.au](http://thermakraft.com.au) or call 1300 247 235.

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