



# Kingspan Insulation Tape

EFFECTIVE VAPOUR SEALING OF ALUMINIUM FOIL FACED INSULATIONS



- Reinforced for extra strength
- Effective vapour sealing
- Super strong pressure-sensitive adhesion
- Fire retardant
- Also available in white



Low Energy –  
Low Carbon Buildings

# Product Details

## Product Description

*Kingspan* Insulation Tape is a fire retardant reinforced aluminium foil tape providing a vapour seal joint in aluminium faced insulation products.

Designed for use in the insulation and air conditioning industries, *Kingspan* Insulation Tape is pressure-sensitive for exceptional adhesion and has early fire hazard properties.

The nature of the backing gives *Kingspan* Insulation Tape a rare combination of high strength, flexibility and conformability.

## Fire Performance

Test	Test Method	Result
Ignitability		
Flame Spread	AS 1530.3	0/0/0/0-1
Heat Release		
Smoke Release		

Product Data	Silver	White
Tape Options	48 mm x 50 m Silver (WA005) 72 mm x 50 m Silver (WA006) 96 mm x 50 m Silver (WA007)	72 mm x 50 m <i>Kingspan</i> <b>AIR-CELL</b> Insulwhite® tape (WA012) 96 mm x 50 m White (WA013)
Thickness (w/o liner)	205 microns	
Tensile strength	100 N / 25 mm	
Adhesion to steel	20 N / 25 mm	
Elongation at break	25%	

All technical data and recommendations are given on the understanding that the users will independently determine the suitability of the tape for their purpose.

## Recommended Tape Width

Application	Insulation Product	Insulation Lap/Butt Join	Min. Tape Width
<b>Roof Applications</b>			
Residential Tiled Roof	<i>Kingspan</i> <b>AIR-CELL</b> ®	150 mm minimum overlap for joints. If taped, 50 mm overlap is adequate	48 mm
Residential Metal Roof	<i>Kingspan</i> <b>AIR-CELL</b> ®	150 mm minimum overlap for joints. If taped, 50 mm overlap is adequate	48 mm
Commercial Metal Deck Roof	<i>Kingspan</i> <b>AIR-CELL</b> ®	150 mm minimum overlap for joints. If taped, 50 mm overlap is adequate	72 mm
<b>Wall Applications</b>			
Brick Veneer	<i>Kingspan</i> <b>AIR-CELL</b> ®	50 mm overlap and tape	48 mm
Double Brick Cavity	<i>Kingspan</i> <b>AIR-CELL</b> ®	50 mm overlap and tape	48 mm
	<i>Kingspan</i> <b>Kooltherm</b> ®	Butt join - tape optional	48 mm
Cladded Wall, Stud Frame	<i>Kingspan</i> <b>AIR-CELL</b> ®	Butt join rolls and tape	48 mm
Precast Concrete	<i>Kingspan</i> <b>AIR-CELL</b> ®	Butt join rolls and tape	72 mm
	<i>Kingspan</i> <b>Kooltherm</b> ®	Butt join - tape optional	48 mm
Masonry Block	<i>Kingspan</i> <b>AIR-CELL</b> ®	Butt join rolls and tape	72 mm
	<i>Kingspan</i> <b>Kooltherm</b> ®	Butt join - tape optional	48 mm
Stud Frame	<i>Kingspan</i> <b>Kooltherm</b> ®	Butt join - tape optional	48 mm
<b>Floor Applications</b>			
Suspended Frame Floor	<i>Kingspan</i> <b>AIR-CELL</b> ®	Butt join or overlap by 50 mm and tape, allow 150 mm overlap when joints are not to be taped	48 mm
<b>Soffit Applications</b>			
Soffit Roof/Floor	<i>Kingspan</i> <b>Kooltherm</b> ®	Butt join and tape	96 mm

# Application Instructions

1. Install the Kingspan Insulation products taut and without significant sag or 'slack'.
2. Use a minimum 72 mm (for commercial and retrofit buildings) or 48 mm (for residential buildings) wide reinforced foil tape for sealing joints.
3. Ensure that the surface to which the tape is to be adhered is clean and free from any contamination such as dust, dirt, oil or silicones. If uncertain, clean surface with a clean rag and mineral turpentine, then wait until dry before applying.
4. Ensure that the tape is centred on the joint so that there is equal coverage on each side of the joint.
5. Use a plastic squeegee or blade to apply adequate pressure to the tape - the more surface contact is achieved the better the result.
6. Follow the contours of the substrate. Do not pull the tape taught or try to flatten the contours out with the tape. Let the tape relax into and conform to the irregularities of the surface, then rub down (see Figures 1 and 2). When the tape has been applied with adequate pressure it should be seen to follow the contours of the insulation and the texture of the insulation facing should be visible through the tape.
7. When sealing angled joints in longitudinal direction, apply the tape in short sections to one side of the joint. Using a blade or squeegee, rub it down as far as possible into the corner and then apply to the other side of the joint.

## Note:

Taping of joints in Kingspan Insulation products is a means of sealing the joint only and is not a substitute for mechanical fixing where there may be stress or pressure on the joint. Where there is stress or pressure on the joint e.g. wind loading, a more secure means of securing the joint must be investigated.

Where it is difficult to apply sufficient pressure on the tape, apply a 25 cm long piece of tape across the joint at 1.0 m spacing.

Where possible, the length of the tape used should not only cover the length of the joint, but continue around the next edge to provide an 'anchor point'.

If possible, arrange joints adjacent to a hard unyielding backing surface so that maximum pressure can be achieved when applying tape.

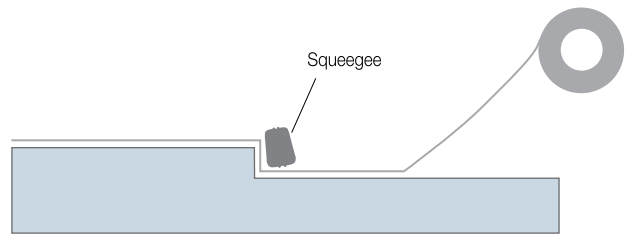


Figure 1 Tape instructions figure with squeegee

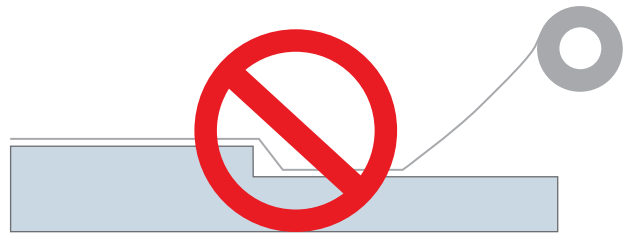


Figure 2 Tape instructions figure stretched



## Helpful Hints

When taping Kingspan Insulation products, a plastic squeegee or blade must be used to apply the appropriate pressure to the foil tape. Apply pressure as the tape is being rolled out, rather than after the application, to achieve maximum adhesion, following the surface contours of the Kingspan Insulation products. Do not try to flatten the contours out with the tape. Let the tape relax into and conform with the irregularities of the surface, then rub down.

Care should also be taken to ensure that the material joined by the tape is not liable or subject to movement. Movement of the two surfaces joined by the tape can create excessive pressure on the joint and can lead to tape failure. These tapes are not to be used as mechanical joining devices.

Surfaces must be free of dust, dirt, oil, silicones or other contaminants prior to taping. If uncertain, clean surface with a clean rag and mineral turpentine, then wait until dry before applying.

# Contact Details

## General Enquiries

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