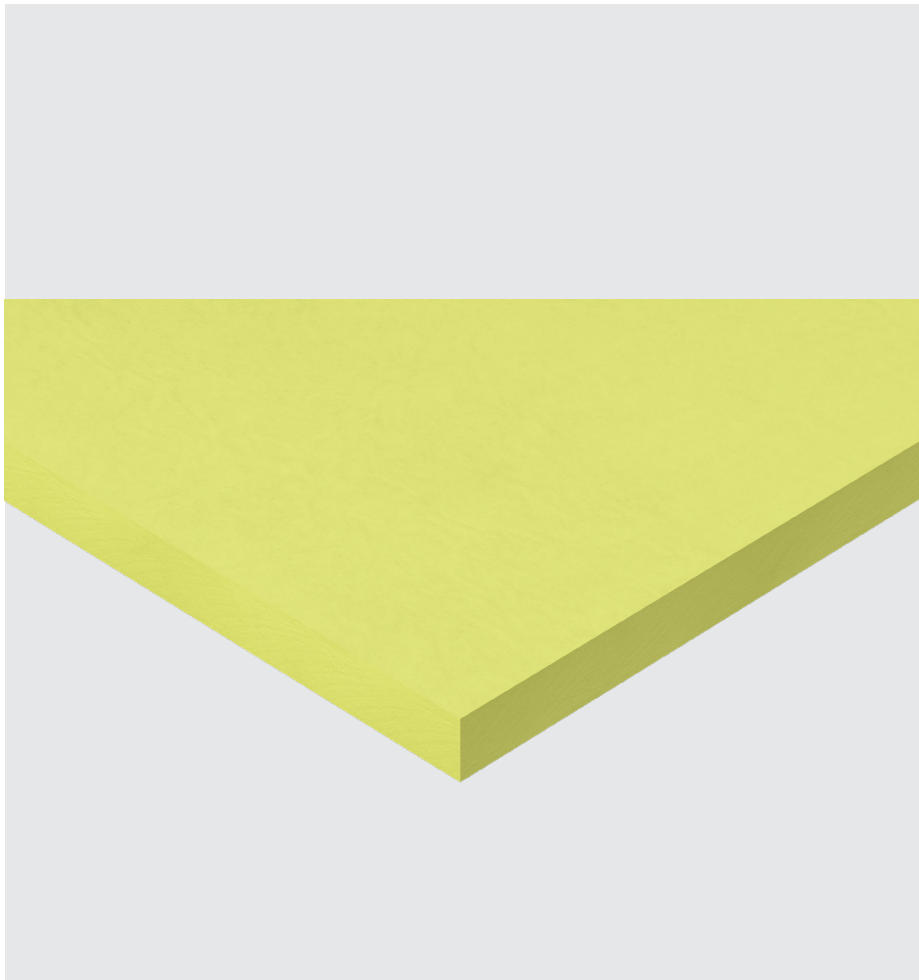


Insulation



# Kingspan **GreenGuard**<sup>®</sup> GG300, GG500

Insulation for Car Park Decks and Heavy Duty Flooring Applications



- Rigid extruded polystyrene insulation
- Protects waterproofing membrane
- Minimal water absorption
- Withstands freeze / thaw cycling
- Compatible with green roof systems
- Resistant to the passage of water vapour
- Easy to handle and install
- Ideal for new build and refurbishment
- Non-deleterious material

Fibre-free  
Core

  
**Kingspan**<sup>®</sup>

# Product Details

## Description

Kingspan GreenGuard® is a fibre free rigid extruded polystyrene insulant.



## General

### Resistance to Solvents, Fungi & Rodents

Kingspan GreenGuard® is resistant to most commonly occurring construction materials such as lime, cement, plaster, anhydrous gypsum, solvent-free bituminous compounds, water-based wood preservatives, as well as alcohols, acids and alkalis. Certain organic materials such as solvent-based preservatives, coal tar and derivatives (creosote), paint thinners and common solvents (e.g. acetone, ethyl acetate, petrol, toluene and white spirit) will attack Kingspan GreenGuard®, resulting in softening, shrinkage and possible dissolution, with a consequent loss of performance.

Kingspan GreenGuard® does not provide any food value to vermin and does not promote infestation.

### Cutting

Cutting should be carried out either by using a fine toothed saw, a hot wire system or by scoring with a sharp knife and snapping the board over a straight edge. Ensure accurate trimming to achieve close-butting joints and continuity of insulation.

### Packaging and Storage

The polyethylene packaging of Kingspan Insulation products, should not be considered adequate for outdoor protection. Ideally, boards should be stored inside a building. If, however, outside storage cannot be avoided, then the boards should be stacked clear of the ground and covered with an opaque polythene sheet or weatherproof tarpaulin.

Boards should not be left in the sun covered by either a transparent or a dark plastic sheet, since in both cases, board temperatures can build up to a level hot enough to appreciably alter board dimensions or cause warping.

## Health and Safety

Kingspan Insulation products are chemically inert and safe to use. A Safety Information Data Sheet for this product is available from the Kingspan Insulation website.

Warning – do not stand on or otherwise support your weight on this product unless it is fully supported by a load bearing surface.

## Standards & Approvals

Kingspan GreenGuard® is manufactured to the highest standards under a management system certified to ISO 9001:2015.

Kingspan GreenGuard® is tested and labelled in accordance with AS 4859.1:2018.

## Product R-value

Lambda (W/m.K) at 23°C	Nominal Product Thickness mm	Declared Product R-value at 23°C
≤ 0.037	40	R1.08
	50	R1.35
	75	R2.03
	100	R2.70

NB Refer to local distributor or Kingspan Insulation price list for current stock and non-stock sizes.

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# Product Details

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## Technical Specifications

Property	Test Method / Standard	Kingspan GreenGuard® GG300	Kingspan GreenGuard® GG500
Compressive Strength (kPa) at 10% Deformation	AS 2498.3:1993	≥ 300	≥ 500
Thermal Conductivity (W/m.K) at 23°C	AS/NZS 4859.1:2018/ ASTM C518-2017	≤ 0.037	≤ 0.037
Blowing Agent	-	CO <sub>2</sub>	CO <sub>2</sub>
Water Vapour Resistance (µg/m <sup>2</sup> .s)	AS 2498.5:1993	≤ 170	≤ 170
Early Fire Hazard Properties	AS 1530.3:1999	Spread of Flame Index: 7 Smoke Development Index: 7	Spread of Flame Index: 4 Smoke Development Index: 6

Kingspan Insulation reserves the right to amend product specifications without prior notice. The information contained in the document is given in good faith and applies to the uses described. Recommendations for use should be verified as to the suitability and compliance with actual requirements, specifications and any applicable laws and regulations. Kingspan Insulation recommends using the Technical Advice service.

There will be a colour variation between batches. The colour variation does not affect the performance of the product. The variation is due to at least 50% recycled resin materials being used in the product.

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# Contact Details

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## AU

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