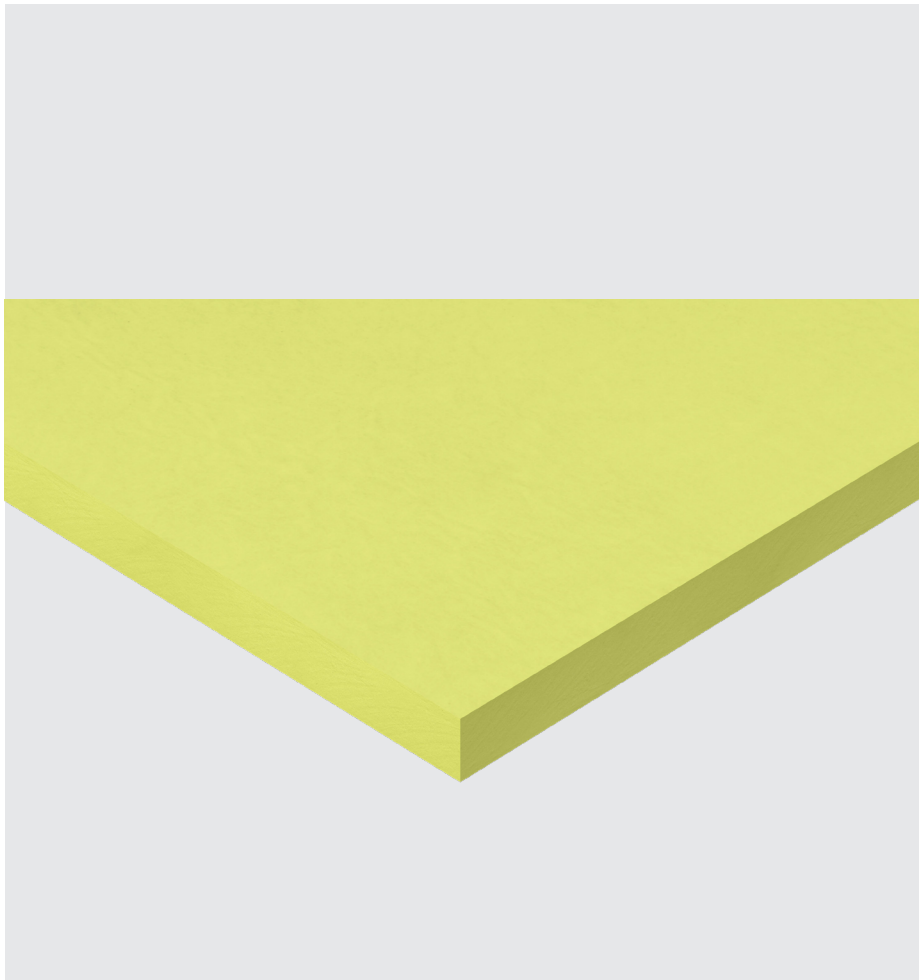


Insulation



# Kingspan **GreenGuard**<sup>®</sup> GG300, GG500, GG700

Insulation for Inverted Roofs, Basements, Car Park Decks, and Heavy Duty Commercial, Industrial, and Cold Store Flooring



- High performance rigid extruded polystyrene insulation
- Protects waterproofing membrane
- Minimal water absorption
- High compressive strength
- 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
- Manufactured with a blowing agent that has zero ODP

Fibre-free  
Core



  
**Kingspan**<sup>®</sup>

# Product Details

## Description

Kingspan **GreenGuard**<sup>®</sup> is a high performance fibrefree rigid extruded polystyrene insulant with a fibre-free core.



## General

### Resistance to Solvents, Fungi & Rodents

Kingspan **GreenGuard**<sup>®</sup> 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**<sup>®</sup>, resulting in softening, shrinkage and possible dissolution, with a consequent loss of performance.

Kingspan **GreenGuard**<sup>®</sup> 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, which is recyclable, 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.

### Fire Safety

To comply with NCC Specification C1.10 Table 4, GreenGuard must be protected by no less than 50mm thickness of concrete or masonry.

## Standards & Approvals

Kingspan **GreenGuard**<sup>®</sup> is manufactured to the highest standards under a management system certified to ISO 9001:2015.

Kingspan **GreenGuard**<sup>®</sup> is tested and labelled in accordance with AS 4859.1:2018

Property	Kingspan GreenGuard <sup>®</sup> GG300	Kingspan GreenGuard <sup>®</sup> GG500	Kingspan GreenGuard <sup>®</sup> GG700
Compressive Strength (kPa)	≥ 300	≥ 500	≥ 700
Lambda (W/m.K) at 23°C	≤ 0.039	≤ 0.039	≤ 0.039
Blowing Agent	CO <sub>2</sub>	CO <sub>2</sub>	CO <sub>2</sub>
Water Vapour Permeability (ng/m.s.Pa)	< 3	< 3	< 2
Water Absorption (%)	< 1	< 1	< 1
Density (kg/m <sup>3</sup> )	35	42	50

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.

## Product R-value

Lambda (W/m.K) at 23°C	Nominal Product Thickness mm	Declared Product R-value at 23°C
≤ 0.039	25	R0.60
	30	R0.75
	40	R1.00
	50	R1.25

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

# Contact Details

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Kingspan Insulation Pty. Ltd. reserves the right to amend product specifications without prior notice. The information, technical details and fixing instructions etc. included in this literature are given in good faith and apply to uses described. Recommendations for use should be verified as to the suitability and compliance with actual requirements, specifications and any applicable laws and regulations. For other applications or conditions of use, Kingspan Insulation offers a Technical Advisory Service the advice of which should be sought for uses of Kingspan Insulation products that are not specifically described herein. Please check that your copy of the literature is current by contacting us or visiting [www.kingspaninsulation.com.au](http://www.kingspaninsulation.com.au)

Kingspan Insulation Ltd is not associated with, and its products have not necessarily been tested by, the GREENGUARD Environmental Institute.

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