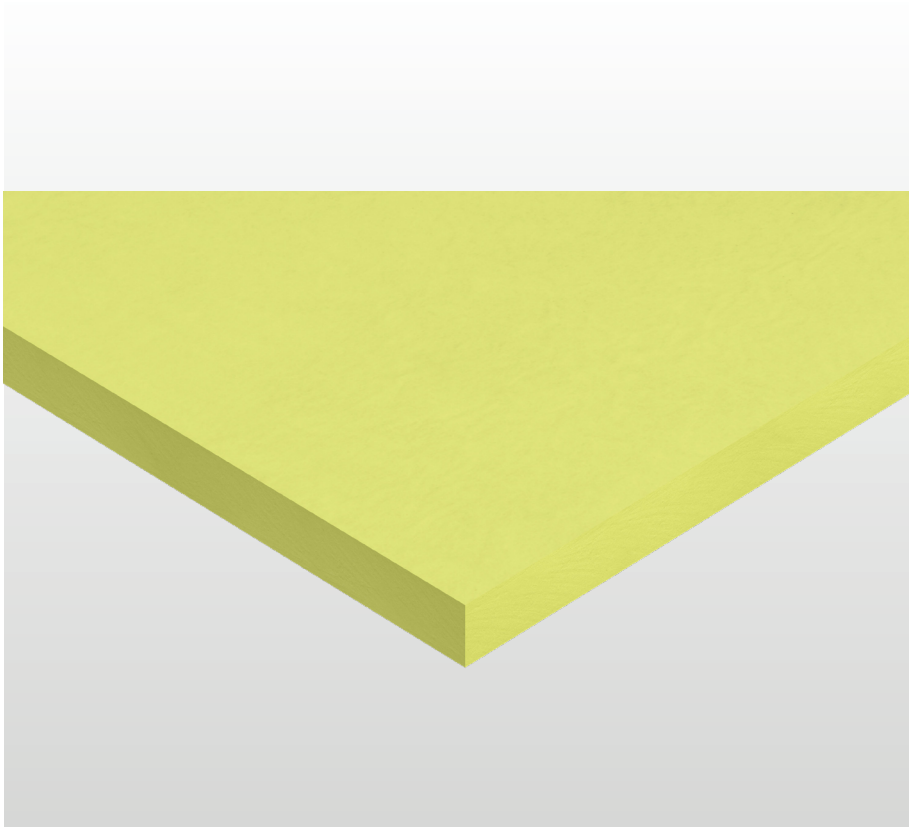


Insulation



Kingspan **GreenGuard**[™] GG300

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



- High performance rigid extruded polystyrene insulation – thermal conductivities as low as 0.034 W/m.K
- 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 and a GWP of 1

Fibre-free
Core


Kingspan[®]

Product Information

Product Description

Kingspan GreenGuard™ GG300 is a high performance fibre-free rigid extruded polystyrene insulant and has a smooth, dense skin on both faces.

General

Resistance to Solvents, Fungi & Rodent

- 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 wood 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 is not normally attractive to them.

Cutting

- Cutting should be carried out either by using a fine toothed saw, or by scoring with a sharp knife, snapping the board over a straight edge and then cutting the facing on the other side. 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.
- Kingspan GreenGuard™ 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 their dimensions or warp them.

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 and Approval

Kingspan GreenGuard™ GG300 is manufactured to the highest standards under a management system certified to ISO 9001: 2015 (Quality management systems. Requirements), ISO 14001: 2015 (Environmental Management Systems. Requirements), BS / I.S OHSAS 18001: 2007 (Health and Safety Management Systems. Requirements), and ISO 50001:2011 (Energy Management System. Requirements with guidance for use).

Technical Specifications

Property	Result
General	
Product Thickness	Refer to Kingspan Insulation for current stock and non-stock sizes.
Board Length (mm)	1250
Board Width (mm)	600
Density (BS EN 1602: 2013)	32 Kg/m ³
Compressive Strength (EN 826:2013)	Typically exceeds 300 kPa @ 10% compression
Water Vapour Resistivity (BS EN 12086: 2013)	> 400 MN.s/g.m
Thermal	
Thermal Conductivity (BS EN 13164: 2008)	0.034 W/m.K (30–150 mm) 0.036 W/m.K (>150 mm)

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