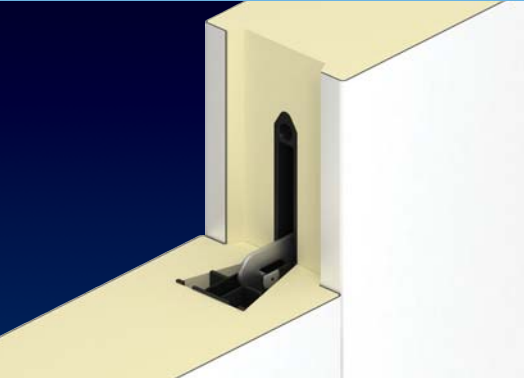
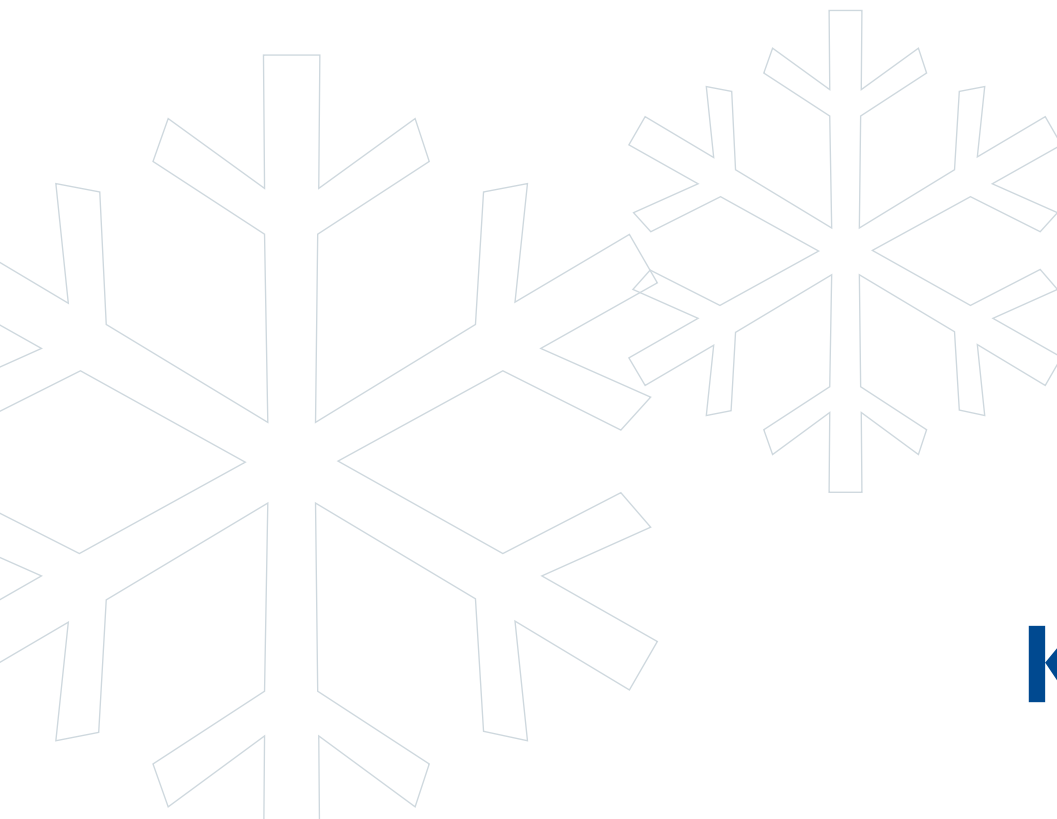


CONTROLLED ENVIRONMENT SYSTEMS



Kingspan Modular Box

High Performance Modular Cold Rooms and Freezer Rooms



Introduction

Kingspan Insulated Panels manufacture **FIREsafe**, hygienic and **FIBREfree** modular cold rooms and freezer rooms for use in many applications including, foodservice, bakeries, medical and research facilities.

The Kingspan Modular Box is a flat pack walk in cold store that combines very high levels of guaranteed performance with ease of assembly and a fully supported fast track service.

The Modular Box is available as a PIR camlock or as a PIR continuous system, providing the optimum level of thermal efficiency and fire protection for every application. The panels from which the Modular Box systems are manufactured have a **FIREsafe** PIR insulation core, providing assurance of high levels of fire performance.

The complete box solution can be specified in any colour, including a stainless steel finish, and also offers a choice of thickness, floors, flat or multiple ribbed wall profiles, and a range of doors.

Kingspan's Modular Box systems provide temperature controlled rooms to suit specific requirements. The boxes are available in standard sizes "off the shelf" or can be designed by our experienced design team to provide a bespoke solution tailored to suit.

System Benefits

- The panels from which the Modular Box systems are manufactured have a **FIREsafe** PIR insulation core.
- Designed to withstand internal / external temperature differences of up to 80°C.
- Suitable for cold and chill stores and food processing applications, with an internal temperature range of -50°C to +60°C.
- Bespoke designs – give us the measurements and Kingspan design accordingly.
- CAD design service plus a 3D CAD image of your design can be supplied.
- The panels used are hygiene safe, resisting moisture ingress and any risk of toxic mould and bacterial growth.
- The panels are **FIBREfree** - no threat of loose fibres into the environment.
- The panels use an **ECOSafe**, environmentally sustainable PIR insulation which is non-deleterious with zero Ozone Depletion Potential (zero ODP).
- The panels have a long lifecycle durability.
- The panels can be fully recycled at the end of their useful life through shredder plants.
- Available with the Kingspan Total Guarantee and **envirocare**® technical support.

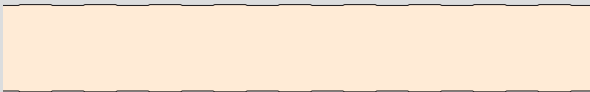
Application

Product Reference	Application Description
KS1100 CS	High performance continuous PIR insulated panel.
KS1200 CL	High performance camlock PIR insulated panel.

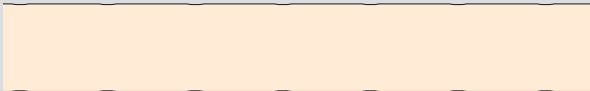
Profiles

The following external profiles are available:

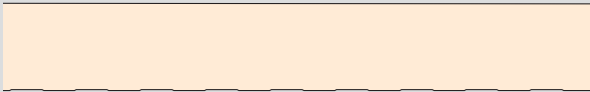
Equi-Bead



Mini-Bead



Flat



Micro-Rib



Materials

Substrate - Steel

Standard external and internal sheets are hot dipped S220GD + ZA zinc/aluminium coated metal to BS EN 10326: 2004 (Continuously hot-dip coated strip and sheet of structural steels. Technical delivery conditions).

Substrate - Stainless Steel

A range of finishes are available. Please contact Kingspan **envirocare**® Technical Services.

Coatings - Internal Liner Sheet

- Polyester: Fully foodsafe coating although not recommended for prolonged contact with moist or wet food. 25 micron thick standard organic coating – standard colour white. Polyester is not suitable for external roof or wall cladding applications.
- Foodsafe Laminate: Safe for continuous contact with food. 120 micron thick chemically inert polymer film bonded to steel suitable for cladding the interior of cold and chill stores and food processing and other hygienic applications. The standard colour is white. Foodsafe laminate is not suitable for external roof and wall cladding applications.
- Standard Liner: Bright white polyester.

Coatings - External Sheet

- Kingspan XL Forté™, Kingspan Spectrum™ and other coated steels are available on request.

Thickness

KS1200 CL insulated panels for the camlock system are available in 80mm and / or 100mm thick and KS1100 CS insulated panels for the continuous system are available in thicknesses from 80mm up to 200mm thick.

Camlock / Continuous System Benefits

- The camlock Modular Box is available in 80mm and 100mm thicknesses.
- The camlock Modular Box is easy to assemble / dismantle with an allen key - no cutting or drilling required.
- The continuous Modular Box is available in a range of thicknesses up to 200mm, with rebated corners and shows no cam-lock holes or visible rivets.
- Available in a range of widths.
- Available in a range of profiles, coatings and colours.
- Lightweight, delivered flat packed and cut to size.
- Short lead times on both systems.
- Available with a range of doors and accessories.
- Variety of floors to choose from in a range of thicknesses.

Widths

KS1200 CL insulated panels for the camlock system are available in widths from 200mm to 1100mm and KS1100 CS insulated panels for the continuous system are available in widths from 600mm to 1200mm.

Kingspan Support

Kingspan offer a bespoke design service for your modular box requirements and can also supply a 3D CAD image of the proposed design.

Kingspan **envirocare**® Technical Services offer technical / installation advice and support throughout the design and construction process.

Please contact Kingspan **envirocare**® Technical Services on:

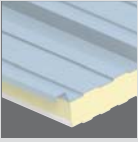

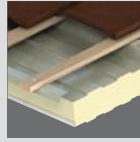

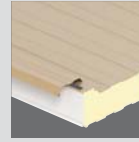
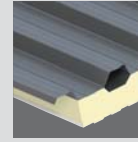
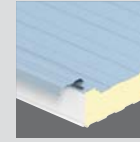
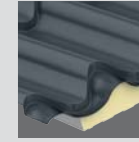
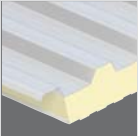
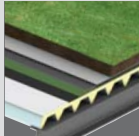


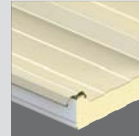
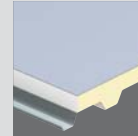
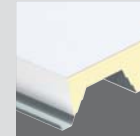
Tel: 0800 587 0090 (UK) & +353 (0) 42 96 98529 (Ireland)

Email: envirocare@kingspanpanels.com.

envirocare
TECHNICAL SERVICES

Kingspan Insulated Roof, Wall & Façade Systems

Roof Systems

KS1000/2000 RW Trapezoidal	KS1000 SF Secret Fix	KS1000/2000 TS Slate & Tile Support	KS500/1000 ZIP Kingzip® Standing Seam	KS1000 LP Lo-Pitch	Kingspan EnergiPanel™	KS1000 CR Curved Roof	Kingspan Roof Tile
							
KS1000 FC Box Profile	Kingspan Envirodek®	Kingspan Polycarb Rooflight	Kingspan Upstand Rooflight	KS1000 DR/DRC Trapezoidal	KS1000 TD Topdek	KS1000 Topspan	
							

Wall & Façade Systems

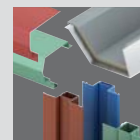
KS600, 900 & 1000 Optimo™	KS600, 900 & 1000 MR Micro-Rib	KS600, 900 & 1000 EB Euro-Box	KS600, 900 & 1000 FL Flat	KS600, 900 & 1000 FL-S Stucco	KS600, 900 & 1000 MM Mini-Micro	KS600, 900 & 1000 CX Convex	KS600, 900 & 1000 WV Wave
							
KS600, 900 & 1000 PL Plank	KS1000 TL Tramline	KS1000 CW CurveWall	KS1000 LV Louvre	KS600, 900 & 1000 LS Longspan™	KS1000/2000 RW Trapezoidal	KS1000 FC Box Profile	Kingspan EnergiPanel™
							
Kingspan Thermastone	Kingspan WoodTherm®	Kingspan Thermatile	Kingspan Thermabrick™	Kingspan Thermatallic™	Kingspan Render Panel	Kingspan Wall-Lite	KS1000 DR Trapezoidal
							

Controlled Environment Systems

KS1100 CS Equi-Bead	KS1100 CS Mini-Bead	KS1100 CS Flat	KS1100 CS Micro-Rib
			

Ancillaries

Gutters, Tophats
& Flashings



Kingspan Limited

UK: Telephone: +44 (0) 1352 716100 Fax: +44 (0) 1352 710161 Email: info@kingspanpanels.com
Ireland: Telephone: +353 (0) 42 96 98500 Fax: +353 (0) 42 96 98572 Email: sales.ire@kingspanpanels.com

Details for the following countries; Australia, Belgium, Czech Republic, France, Germany, Hungary, Netherlands, New Zealand, Norway, Poland, Romania, Singapore, Slovakia & Sweden can be found by visiting our website www.kingspanpanels.com or our group website www.kingspan.com

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