

Insulated Panels
UAE

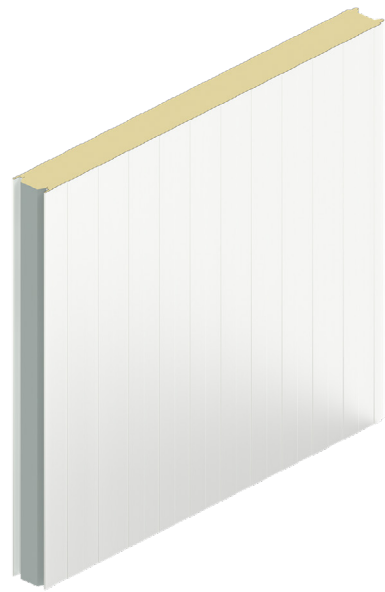
KSD1000/1100CS Coldstore Panel Product Data Sheet



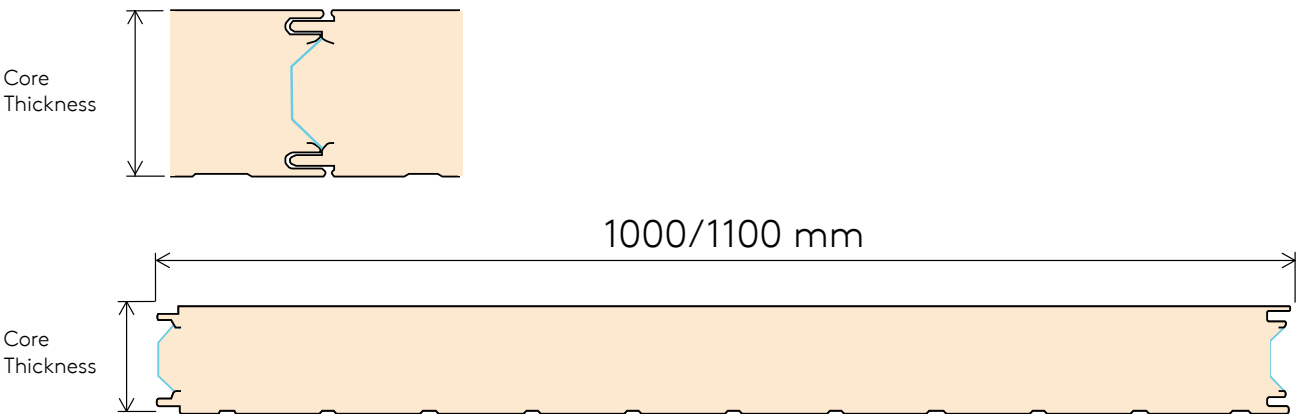
Application

The KSD1000/1100CS Coldstore Panel is a reliable solution for modern cold store buildings. The panel's through-fix design and availability in four distinct profiles (micro-rib, mini-micro, flat, and equi-bead) allow for creative architectural expression while maintaining clean and seamless walls. It can be installed both horizontally and vertically, making it suitable for a wide range of designs. Additionally, it is suitable for use both internally and externally.

Designed for use within temperature-controlled and hygiene-safe environments, the KSD1000/1100CS Coldstore Panel is ideal for applications in rooms with temperatures ranging from -40°C to ambient. It is recommended for sectors such as food processing, freezers, pharmaceutical, cold/chill stores, and cleanrooms. It is also suitable for commercial, industrial, educational, healthcare, and residential projects, offering a sleek, professional appearance and durability.



Panel Cross Section



Technical Parameters

Module width/Cover width [mm]	Core Thickness [mm]	Mass [kg/m ²]	Thermal Transmittance (U-value) acc. EN 14509:2013 [W/m ² ·K]	Airborne Sound Insulation R _w (C;C _{tr})	FM Approval
1,100/1,100	50	10.42	0.38	NPD	
	80	11.62	0.24	NPD	
	100	12.42	0.19	NPD	
	125	13.42	0.16	NPD	
	150	14.42	0.13	NPD	
	175	15.42	0.11	NPD	
	200	16.42	0.10	NPD	
	220	17.22	0.09	NPD	

Fire Performance

Module width/Cover width [mm]	Core Thickness [mm]	Reaction to Fire	Fire Resistance - Internal Wall - Horizontal	Fire Resistance - Internal Wall - Vertical
1,100/1,100	50	B-s1, d0	NPD	NPD
	80	B-s1, d0	NPD	NPD
	100	B-s1, d0	NPD	NPD
	125	B-s1, d0	NPD	NPD
	150	B-s1, d0	NPD	NPD
	175	B-s1, d0	NPD	NPD
	200	B-s1, d0	NPD	NPD
	220	B-s1, d0	NPD	NPD

Dimensions

Length

Shorter lengths (non-standard) [mm]	500-2499
Standard lengths [mm]	2500-17000
Longer lengths (non-standard)	

Standard panel lengths: 2500-17000 mm .

Please contact Kingspan for non-standard lengths and transport restrictions.

Width

Standard panel widths: 1,000 mm / 1,100 mm .

Please contact Kingspan for non-standard panel widths.

Product Tolerances

Product tolerances are measured according to the standard EN 14509:2013.

Length tolerance	L≤3m, -	5 mm
Length tolerance	L≤3m, +	5 mm
Length tolerance	L>3m, -	10 mm
Length tolerance	L>3m, +	10 mm
Cover width tolerance	-	2 mm
Cover width tolerance	+	2 mm
Thickness tolerance	-	2 mm
Thickness tolerance	+	2 mm
Thickness tolerance	D>100mm, -	2 %
Thickness tolerance	D>100mm, +	2 %
Deviation from squareness		0.006 x w
Deviation from straightness (on length)		1mm/m, maximum 5 mm/m

Materials

Insulation Core

Polyisocyanurate (IPN) insulation core with a Thermal Conductivity (λ_D) of 0.020 W/m·K according to ASTM C518-17 at 10 degree.

External facing

Metal Thickness Range

External Facing (Top Skin)

For Steel: 0.40 mm to 0.70 mm thickness.

For Aluminium: 0.50 mm to 0.70 mm thickness.

Internal facing

Interior Facing (Bottom Skin)

For Steel: 0.40 mm to 0.70 mm thickness.

For Aluminium: 0.50 mm to 0.70 mm thickness.

Notes: The given metal thickness ranges include coating.

For Galvanized Steel Thickness: Tolerances to be in accordance with EN 10143 or ASTM A 924 / A924M-13, applicable for an external weather sheet and internal liner.

For Aluminium Thickness: Tolerances to be in accordance with BS EN 485/ BS EN 508 or ASTM B209M, applicable for an external weather sheet and internal liner.

Seals

All side joints have a factory applied seal that fits into the groove to automatically seal the joint between the panels.

Profiles

A choice of four profiles allowing maximum flexibility to create unique architectural designs.

External Weather Sheet Options: Equi-Bead (EB), Flat (FL), Micro-Rib (MR) and Mini-Micro (MM).

Internal Liner Options: Equi-Bead, Mini-Bead and Flat.

Colours

A diverse array of external colour choices is at your disposal, featuring a broad spectrum of finishes such as metallic, matte, and solid.

Please contact Kingspan for advice on colour selection for your project.

Mechanical Resistance

For load / span tables, please contact Kingspan.

Environmental Performance

Life Cycle Assessment (LCA) study and Environmental Product Declaration (EPD) for the KSD1000/1100CS Coldstore Panel are

currently under development.

We ensure that our products are free from CFC, HCFC, HFC, and Halogenated Fire Retardants.

Additionally, Kingspan Insulated Panels are manufactured in facilities certified to the ISO 14001 Environmental Management System (EMS) standard.

Production Standard

Please contact Kingspan for the most up-to-date test certificates.

Quality

Kingspan Insulated Panels are manufactured from the highest quality materials, using state of the art production equipment to rigorous quality control standards, complying with ISO 9001:2015 Quality management systems standards as well as ISO 37301:2021 Compliance management systems standards.

The panels are also being manufactured under Environmental management system certification EN ISO 14001:2015 and Occupational health and safety certification EN ISO 45001:2018.

Packing

Standard Packing - Road Transportation

Kingspan Insulated Panels are stacked horizontally with the facing sheets facing upwards to minimise the overall height of the pack. The top and sides are protected with either cardboard or polystyrene, together with spiral wrap stretch poly film.

Customers must remove the protective film and other delivery packaging immediately after installation, ensuring that this is done within a maximum of two months of the production date.

The number of panels in a pack depends on panel thickness and length. Quantities are reduced for exceptionally long panels.

Core Thickness [mm]	50	80	100	125	150	175	200	220
Number of Panels	16	13	11/10	9/8	7	6	5	5/4

Delivery

Unless otherwise specified, all deliveries are made by road transport to the designated project site.

Unloading on site:

The responsibility for unloading the goods lies with the

recipient. It is essential that goods are not dropped or thrown from the vehicle and are not stacked on uneven surfaces.

During the unloading process, it is essential to take great care to protect the goods from potential damage and to prioritise the safety of personnel on site.

Manual unloading of goods is not recommended. Instead, it is advisable to use specialist equipment such as a forklift truck or crane equipped with a spreader beam. This precautionary measure prevents excessive pressure being applied to the product, which can lead to problems such as delamination, joint damage and surface irregularities.

Please contact Kingspan to obtain guidelines for the storage, on-site handling and safe unloading of metal coils, building sheet and insulated panels.

Sea Freight

For projects requiring sea freight via containers, timber wooden pallets are available at an additional surcharge.

Site Storage & Installation

Proper storage conditions are essential for maintaining the quality of the product. It is essential that the goods are stored in a covered area on a clean, level surface, with no more than two bundles stacked to avoid excessive pressure. Storage in an uncovered area is not recommended, but if circumstances require outdoor storage, the goods can be placed on a gently sloping surface to reduce the risk of water accumulation.

When storing goods outdoors, it is essential to use a waterproof cover that allows adequate air circulation underneath. It's also important to keep the goods a safe distance away from potential fire hazards and the risk of falling objects.

These measures are essential to ensure the integrity and safety of the goods throughout the storage period.

Please contact Kingspan to obtain guidelines for the storage, on-site handling and safe unloading of metal coils, building sheet and insulated panels.

Warranty

Kingspan offers product coating warranties tailored to each specific project, taking into account the environmental conditions of the geographical location of the project. These warranties are subject to compliance with a maintenance regime.

Please contact Kingspan for more information.

Profiles

Profile	External	Internal
E - Equi-Bead		
F - Flat		
M - Mini-Micro		
R - Micro-Rib		
B - Mini-Bead		

Contact Details

Kingspan Insulated Panels Manufacturing LLC

tel: +971 (0) 4 885 4232 | +971 (0) 4 885 4191
Dubai Investment Park 1 | P.O. Box 60493
Dubai | UAE



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The information provided in this datasheet is accurate as of its date of publication and represents our commitment to quality and transparency. However, Kingspan Insulated Panels reserve the right to modify product specifications without prior notice to reflect advancements or improvements.

For applications not explicitly covered within this datasheet, consultation with our Technical Advisory Service is strongly advised to ensure the product meets your specific requirements.

Customers are responsible for verifying the product's suitability for their particular needs and for ensuring compliance with all applicable laws and regulations.

For the most up to date and comprehensive product details, always refer to the latest version of this datasheet by scanning the QR code above.

We reserve the right to update this datasheet, and any other informational materials, at our discretion and without notice.

For the latest information, please visit: www.kingspan.ae.

