

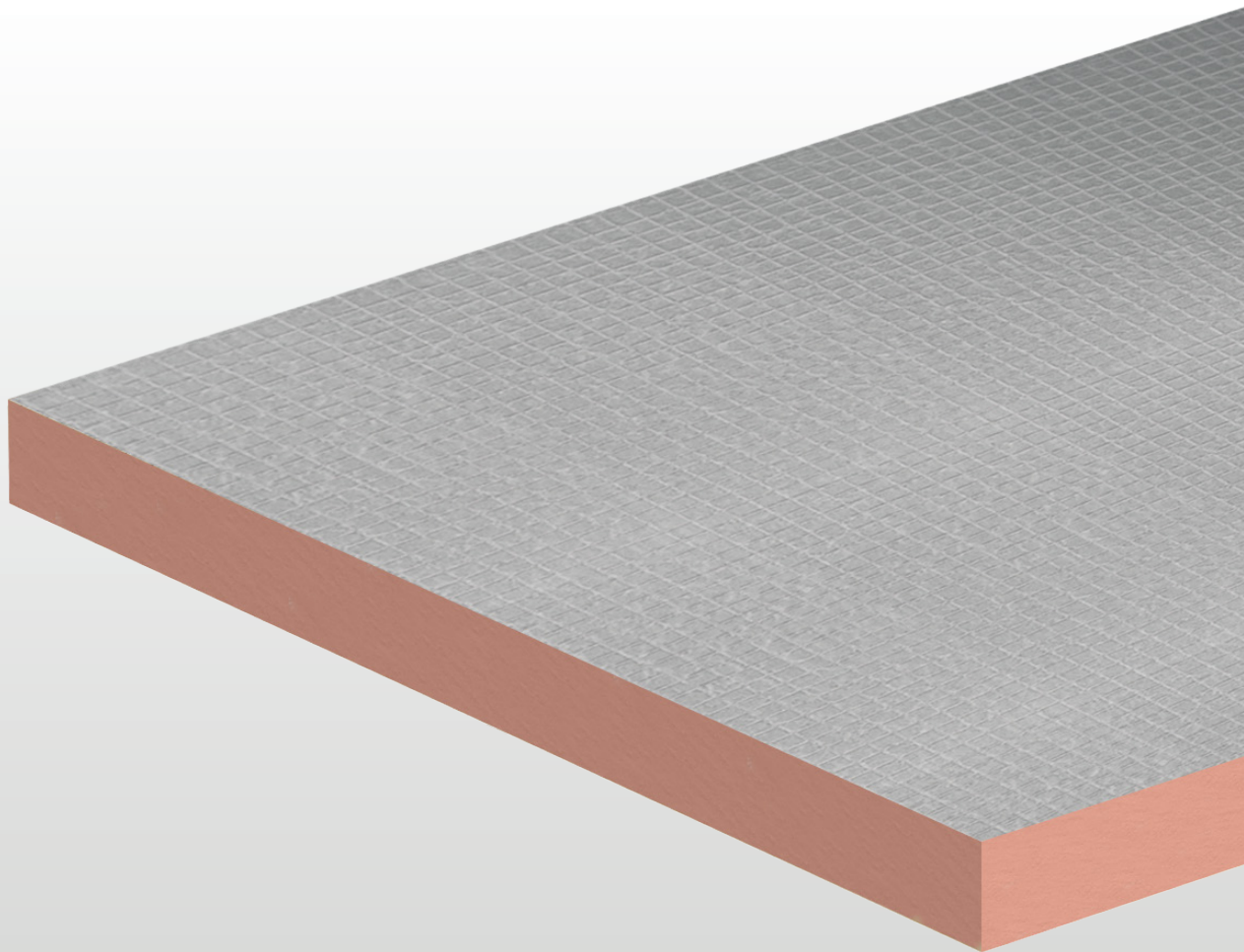
Insulation



PalDuct[™] Phenolic System

Technical Data Sheet

Product Code: 2014



Product Information

Kingspan PalDuct Phenolic Panels

Kingspan PalDuct Phenolic Panels comprise a fibre-free rigid thermoset phenolic insulation core, faced on both sides with aluminium foil reinforced with a glass scrim. The core is manufactured with a blowing agent that has zero ODP (contains no CFC and HCFC) and GWP ≤ 5 .

Property	Value
Product Code	2014
Product Thickness (mm)*	20
Panel Dimensions (mm)*	4000 x 1200
Min. Density (kg/m ³) (EN1602-2013)	55
Thermal Conductivity (W/mk) @ 23°C (ASTM C518-21)	0.033

* Standard manufacturing tolerance may apply, for more information contact Kingspan Insulation technical service.

Compliance

Kingspan PalDuct Phenolic panels comply with standards shown in the table below.

Property	Classification / Value	Standard
Flame Spread Index (FSI) and Smoke Developed Index (SDI)	FSI/SDI: 25/50	ASTM E 84 / UL 723 (Surface Burning Characteristic)

UL (Underwriters Laboratories)

Ductwork fabricated from The Kingspan PalDuct Phenolic System is UL Listed as a Class 1 Air Duct, to Standard for Safety UL 181 (Factory Made Air Ducts & Air Connectors). The UL Listing requires that ductwork is fabricated using:

- 20-30 mm Kingspan PalDuct Phenolic panels;
- a 2 1/2" / 63 mm wide (minimum) aluminium foil vapour barrier tape that is UL Listed A-P to Standard for Safety UL 181 A (Standard for Closure Systems for use with Rigid Air Ducts); and
- Kingspan PalDuct Sealant and Palduct Adhesive.

Certifications

Kingspan PalDuct Phenolic System is manufactured to the highest standards under a management system certified to ISO 9001: 2015 (Quality Management System), ISO 14001: 2015 (Environmental Management System), ISO 45001: 2018 (Occupational Health and Safety Management System) and ISO 37301:2021 (Compliance Management System).

Operating Recommendations

It is recommended that ductwork fabricated from the Kingspan PalDuct Phenolic System is used for operation as supply, return, fresh and exhaust air ductwork for HVAC systems.

Application Suitability

The Kingspan PalDuct Phenolic System is designed for use in building services / HVAC applications. It is suitable for both new build and refurbishment projects in the residential, commercial, public, light industrial and leisure sectors. It is especially suitable for use on high specification projects where insulants with a fibre-free core may be preferred, for instance:

- the food, beverage and pharmaceutical industries;
- clean air and hygiene controlled environments;
- swimming pools;
- non-ferrous applications; and
- sterile areas of hospitals and communication/server rooms in data centres.

Fabrication and Installation

The Kingspan PalDuct Phenolic System is an advanced and innovative pre-insulated rectangular HVAC ductwork system. It comprises Kingspan PalDuct Phenolic panels, fabrication methods, coupling systems and a complete line of accessories to produce ductwork in sections up to 4 m long.

Ductwork fabricated from The Kingspan PalDuct Phenolic System should only be fabricated by specially trained fabricators who have completed the specialised and comprehensive training course provided for the System.

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