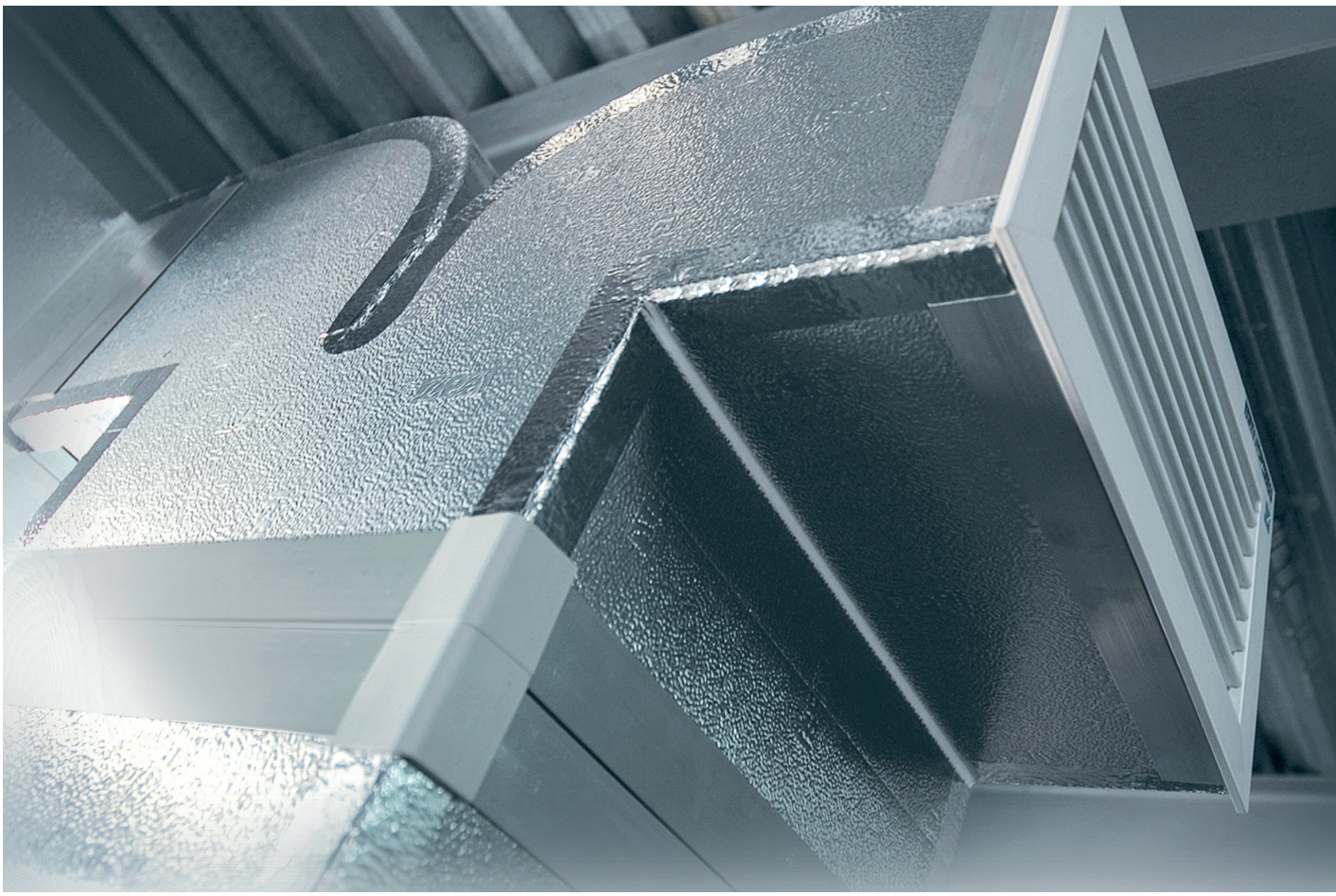
Insulation

PalDuct™ PIR System

Technical Data Sheet



Fibre-free Core

Kingspan®

Product Information

Product Description

The Kingspan PalDuct PIR System is an advanced and innovative pre-insulated rectangular HVAC ductwork system.

It comprises Kingspan PalDuct PIR panels, fabrication methods, coupling systems and a complete line of accessories to produce ductwork in sections up to 4 m long.

Operating Recommendations

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

Application Suitability

The Kingspan PalDuct PIR 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;
- high relative humidity environments;
- swimming pools;
- non-ferrous applications; and
- sterile areas of hospitals and communication/server rooms in data centres.

Fabrication and Installation

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

Kingspan PalDuct PIR Panels

Kingspan PalDuct PIR Panels comprise a fibre-free high performance rigid thermoset polyisocyanurate (PIR) insulation core, faced on both sides with an embossed aluminium foil. The aluminium foil is lacquered with corrosion resistant polymer varnish. The core is manufactured with a blowing agent that has zero ODP (contains no CFCs and HCFCs) and GWP ≤5.

Property	Value
Product Code	1010
Product Thickness (mm)	20
Panel Dimensions (mm)	4000 x 1200
Min. Density (kg/m^3)	45
Weight of the Panel (kg/m^2)	1.36
Thermal Conductivity (W/m.K) @ 10°c	0.020
Application	Indoor

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