



See over leaf for applicable countries

# **$\pi$ Pal™ Duct Spiral System**

## TECHNICAL DATA SHEET



**Fibre-free  
Core**



*Low Energy –  
Low Carbon Buildings*

# Kingspan **PalDuct** Spiral System

## Introduction

The *Kingspan PalDuct* Spiral System is an advanced and innovative pre-insulated spiral HVAC ductwork system. It comprises *Kingspan PalDuct* panels, fabrication methods, coupling systems and a complete line of spiral elbows, reducers, tees, branches, connections, volume dampers and support systems to produce spiral ductwork in sections up to 4 m long.

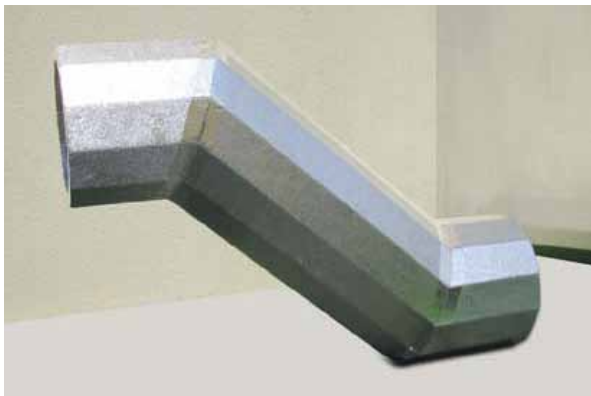
## Application Suitability

The *Kingspan PalDuct* Spiral 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. Spiral ductwork is often suitable for the following projects:

- swimming pools;
- sport centres;
- exhibition halls; and
- shopping centres.

## Fabrication & Installation

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

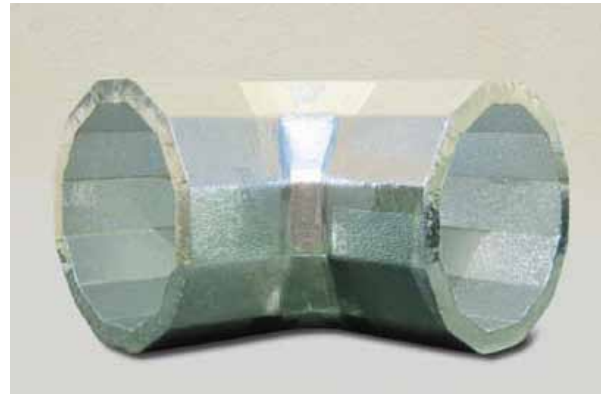


## Kingspan **PalDuct** Panels

The *Kingspan PalDuct* Spiral System can be fabricated using either *Kingspan PalDuct* PIR Panels comprising a fibre-free high performance rigid thermoset polyisocyanurate (PIR) insulation core or *Kingspan PalDuct* PUR Panels comprising a fibre-free high performance rigid thermoset polyurethane (PUR) insulation core. Both panels are either faced on both sides with an embossed aluminium foil or on one side with an embossed aluminium foil and on the other side a smooth aluminium foil.

**Fibre-free Core** All foils are lacquered with a corrosion resistant polymer varnish.

Property	Value	Standard
Thickness (mm)	20	
Panel Dimensions (mm)	From 100 to 1000	
Density (kg/m <sup>3</sup> )	50 + 3%	
Thermal Conductivity (W/m·K)	0.020 @ 10°C	ASTM C 518
Fire & Smoke Classification	Class 0 Class A	BS 476 Part 6 & 7 NFPA 101 Life & Safety Code



*Kingspan Insulation reserves the right to amend product specifications without prior notice. The information contained in the document is given in good faith and applies to the uses described. Recommendations for use should be verified as to the suitability and compliance with actual requirements, specifications and any applicable laws and regulations. Kingspan Insulation recommends using the Technical Advice service.*



### Kingspan Insulation LLC

P.O. Box 113826, Dubai Investment Park 2, Dubai, U.A.E.  
Tel: +971 4 889 1000 Fax: +971 4 883 8515  
info@kingspaninsulation.ae

[www.kingspaninsulation.com](http://www.kingspaninsulation.com)

Countries comprise: all of Africa; South and Central America; the Caribbean; the Middle East and Asia as far north and east as (and including) Turkey, Georgia, Azerbaijan, Kazakhstan, Kyrgyzstan, Afghanistan, Pakistan, India, Nepal, Bhutan and Bangladesh.

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