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Product CATALOGUE

**POLYISOCYANURATE (PIR)
PRE-INSULATED DUCT SYSTEM**



PRODUCT **OVERVIEW**



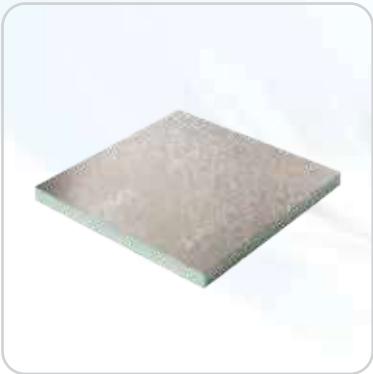
DS PANEL POLYISOCYANURATE (PIR) PRE-INSULATED DUCT SYSTEM

is a lightweight premium quality and performance pre-insulated Polyisocyanurate (PIR) air duct system for air distribution.

It consists of Polyisocyanurate (PIR) panels, specified joining systems and range of accessories in addition to the recommended fabrication and installation procedures.

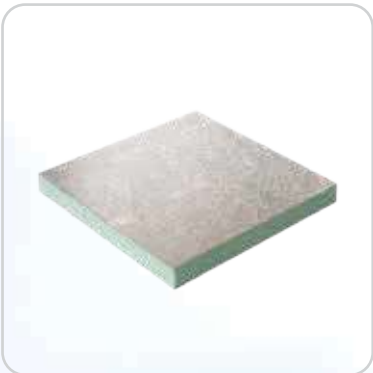
The ducts are fabricated in sections up to 4m length and offer multiple advantages in reducing cost and energy usage when compared to the conventional sheet metal duct systems.

PANEL TYPES



DSP - 20

Thickness: 20mm
Minimum density: 50kg/m³
Dimensions: 4000mm x 1200mm
Aluminium foil finish: embossed / embossed
Aluminium foil thickness: 60micron / 60micron



DSP - 30

Thickness: 30mm
Minimum density: 50kg/m³
Dimensions: 4000mm x 1200mm
Aluminium foil finish: embossed / embossed
Aluminium foil thickness: 60 micron / 60 micron

MECHANICAL PROPERTIES

	THERMAL CONDUCTIVITY	0.024W/m.K	ASTM C518 at 10°C
	WATER VAPOR TRANSMISSION	ZEROg/h.m²	ASTM E96
	TEMPERATURE RANGE	-20°C and +80°C	As per standard practice
	MINIMUM COMPRESSIVE STRENGTH	200kPa	ASTM D1621 at 10% deformation
	MINIMUM FLEXURAL STRENGTH	1200kPa	ASTM C203
	CLOSED CELL CONTENT	90%	BS EN ISO 4590

PANEL ADVANTAGES



Light Weight

Pre-insulated ducts are very light and weight roughly a 70% less than traditional sheet metal ducts.



Durability

The panel is highly resistant to corrosion, erosion and deformation. This ensures a long services life span of the ducting system.



Thermal Insulation

The specially formulated closed cell insulation offers low thermal conductivity and high temperature limits. Heat loss is significantly reduced and the insulation structure ensures the absence of condensation issues.



Ease Installation

Starting up requires only basic know-how and simple hand tools. Panels can be workshop or site fabricated. Completed duct sections bears only a fraction of sheet metal duct weight, allowing efficient handling and installation work.



Energy Saving

The superb thermal insulation and airtight seal ensures system efficiency thus providing savings on operating costs.



Fire Resistant

The PIR panels are self-extinguishing, which means that they can prevent the spread of fire. This feature is especially important in commercial and industrial buildings, where fire safety is a top priority.



Moisture Resistance

The closed cell structure is highly resistant to moisture penetration. This will eliminate fungi and mold growth maintaining the duct's hygienic conditions.



Environmental Friendly

The material used to produce pre-insulated duct panels are environmental friendly. They are completely CFCs and HCFCs free.

PANEL ACCESSORIES



Aluminium
U Profile

Thickness: 20mm / 30mm
Length: 4m



Aluminium
F Profile

Thickness: 20mm / 30mm
Length: 4m



Aluminium
H Profile

Thickness: 20mm / 30mm
Length: 4m



Corner
Piece

Thickness: 20mm / 30mm



Aluminium
Duct Tape

Width: 60mm



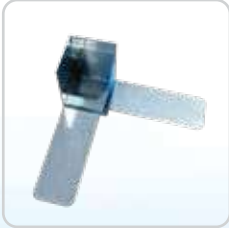
Tiger
Connector

Thickness: 50mm
Length: 73m



Silicone
Sealant

Weight: 300ml
Color: Grey



Reinforcement
Corner Piece

Thickness: 20mm / 30mm



Reinforcement
Section Bar

Diameter: 14mm
Length: 4m



Reinforcement
Disk

Diameter: 96mm

PANEL ACCESSORIES



Reinforcement
Self Threading Screw



Plenum Box
Grille Bracket (E)



Panel
Glue



Toolbox



Access
Door Latch (GI)

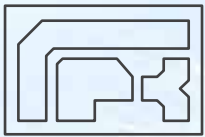


Access
Door

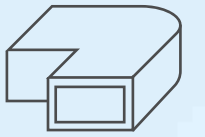
OUR SERVICES



Sales of
Pre-Insulated
Panel



Pre-Cut
Pre-Insulated
Ductworks



Form-Up
Pre-Insulated
Ductworks