



**PRE-INSULATED
ALUMINIUM
DUCT**



Introduction

Duct is a key part of central air-conditioning system. It plays a very important role in adjusting air condition in buildings. The air condition and appearance of buildings are related with duct quality. The material used for duct is constantly evolving in order to satisfy the demand for higher and greater quality, greater respect for the environment and increased savings in energy.

Many different materials and systems such as magnetic composite, PVC and so on have been developed as alternatives to the galvanized sheet metal used traditionally, pre-insulated duct is a fresh blood of duct systems.

It is a sandwich panel that is made of a layer - silicate modified fireproof rigid PIR (Polyisocyanurate) foam faced with aluminium foil.

AB Duct® PIR is a new material duct, it has advantages such as energy saving, environmental protection, no pollution, light and easy to install, fireproof, soundproof, nice appearance and long service life can not only meet the demands of duct material, but also avoid the disadvantages of traditional materials.

The advantages of AB Duct® PIR in performance, cost and manufacture make it true to design and construct a modern air conditioning system.



Specification

of AB Duct PIR

Density of polyisocyanurate (PIR)	: 52 +/- 2 kg/m ³
Fire Retardant	: class 0
Thermal Conductivity	: 0,019 w/m.K
Pressure in duct max	: 2000 pa
Working temperature	: -60°C -- 80°C
Air Flow Max	: 12 m/s
Dimension	: 4000 x 1200 x 20 mm
Weight	: 1.46 Kg/m ²
Friction Losses	: 0,0135

Advantages

- Light and safe, decrease the load of the building.
- Easy to install, shorten the construction period.
- Protect environment, sandwich structure with antioxidant surfaces.
- High performance in heat insulating, can be served in both high and low temperature environment.
- Fireproof, meet the national standard, makes building safe.
- Soundproof, makes a quieter environment.
- No need to leave space for insulation material installing, so that the story height can be reduced.
- Long service life up to 20 years, very low cost in wastage and maintenance.
- Nice appearance.



Special Glue for Flange and Panel

AB Duct® PIR special glue can not only make panels glued firmly, but also fireproof. AB Duct® PIR special flange glue is fireproof and inflatable. It can assure firm adherence between panel and flange.

Installation Accessories AB Duct® PIR



Ball Join



Shape Disc



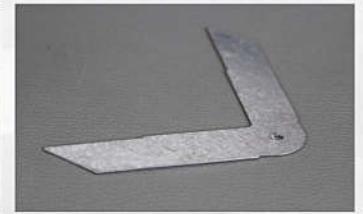
T Connector



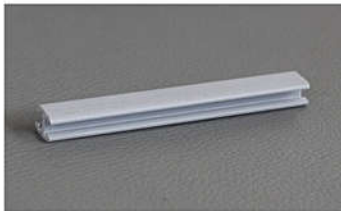
Invisible Flange



Covering Angle



Zinc Coated



Bayonet



F Section Bar



H Section Bar

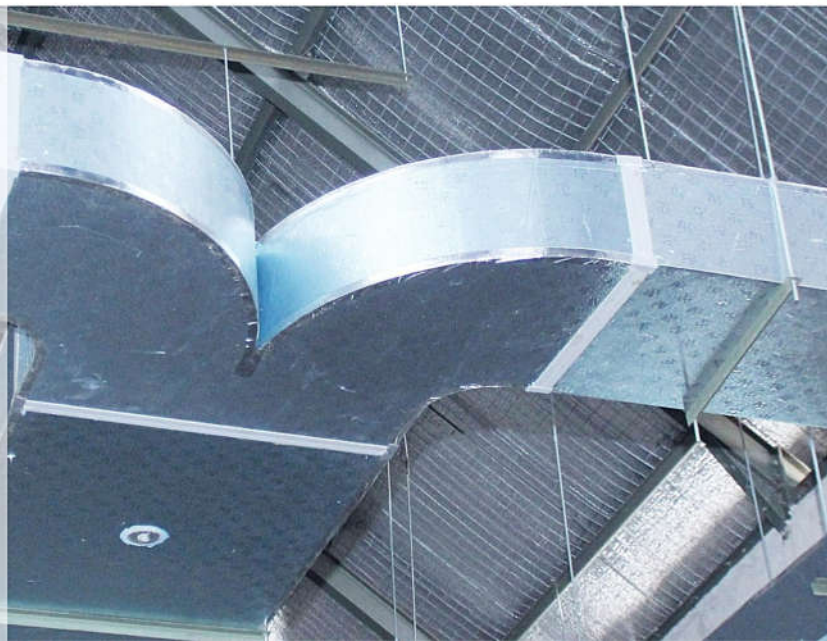


Reinforcement Bar

Duct System

AB Duct® PIR system including :

- AB Duct® PIR panels
- Accesories for AB Duct
- Training and Services for Duct Installation
- Data sheet of tech & safety for Duct Installation
- Undertake project of Duty Installation



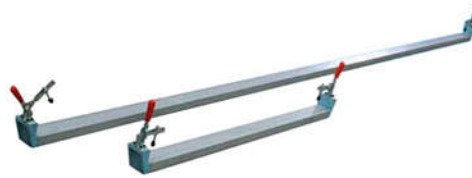
Professional Tool In Setting Up AB Duct® PIR



- V model reamer
- Straight reamer
- 45 degree reamer



Toolbox



Aluminous Ruler



Manual Bending
Machine



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**AB Sealant Silicone
Weatherproof**