idealair
group

PRINCI

Aluminum pre-insulated ducts

PIB21
PIB30
PIB42

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PRODUCT DATA SHEET

1 YR WARRANTY

ALUMINUM PRE-INSULATED DUCTS

Aluminum pre-insulated ducts, for heating, ventilation and air conditioning air distribution systems.

Advantages

- Long duration granted by the characteristics of the aluminum foil (absolutely no rust or other type of deteriorations)
- No fibers release or dispersion
- Very high thermal insulation
- Outdoor installation without any additional protection
- Excellent air tightness
- Resistant to high pressure of the air (positive and negative)
- Resistant to salty atmosphere
- Easy access for maintenance
- Easy cleaning (water washing, brushing or disinfection)

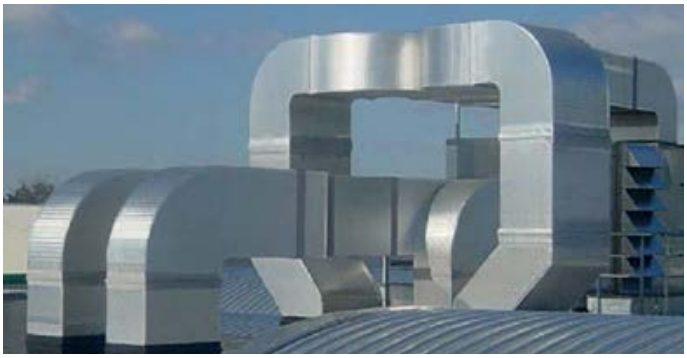
Fabrication

Our air ducts are fabricated using a rigid polyurethane foam board, faced on both side by an aluminum foil.

- Panel thickness: 21mm, 25mm, 30mm, 42mm and 64mm
- Rigid polyurethane foam, closed cells, density 48kg/m^3 without CFC-HCFC-HFC
- Internal facing:
  Aluminum foil 60, 80, 200 or 500 micron thickness, treated with 3g/m of epoxy varnish as protection against weather agents and UV rays
- External facing:
  Aluminum foil 60, 80, 200 or 500 micron thickness, treated with 3g/m of epoxy varnish as protection against weather agents and UV rays

Fire Rating

- AS1530.3: Class 0,0,0,0
- UL 181.11



Application

Realisation of HVAC air distribution systems (supply, return, exhaust, fresh air) to be installed indoor and outdoor, especially in the following projects:

- Hospitals and operating suites
- Clean rooms and pharmaceutical industry
- Food industry
- Shopping malls/centers
- Swimming pools

Technical Characteristics

- Thermal resistance and thickness:
  21mm R 0.99m^2 k/w
  25mm R 1.20m^2 k/w
  30mm R 1.50m^2 k/w
  42mm R 2.00m^2 k/w
  64mm R 3.00m^2 k/w
- Nominal pressure:
  Positive: 2.000 Pascal
  Negative: -2.000 Pascal

Product Specifications

Pressure (Pascal)	Class
-750	C
400	C
1000	B
2000	B

Performances reached with a “standard” fabrication.

Temperature (°C)	Air Velocity (m/sec)	Pressure (Pascal)
+110 / -35	30	2000

idealair group reserves the right to make changes to product without prior notice.

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Pre-Insulated Board Only

ITEM CODE	SPECIFICATIONS	DIMENSIONS (SQ MT Per Sheet)
PIB21	21mm R1.0 - Sheet Size 4.0M x 1.2M	4.8
PIB30	30mm R1.5 - Sheet Size 4.0M x 1.2M	4.8
PIB42	42mm R2.0- Sheet Size 4.0M x 1.2M	4.8

Fixing Claw for Pre-Insulated Board

ITEM CODE
CLAW

H Extrusion for Pre-Insulated Board 21mm

ITEM CODE	SPECIFICATIONS	LENGTH (M)
PIB21HS	Plastic H Extrusion to suit 21mm board, Short (60mm)	4
PIB21HAS	Aluminium H Extrusion to suit 21mm board, Short (60mm)	4
PIB21EHS	Plastic H Extrusion to suit 21mm board, Extended (110mm)	4

F Extrusion for Pre-Insulated Board 21mm

ITEM CODE	SPECIFICATIONS	LENGTH (M)
PIB21FS	Plastic F Extrusion to suit 21mm board, Short (60mm)	4
PIB21FAS	Aluminium F Extrusion to suit 21mm board, Short (60mm)	4

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