



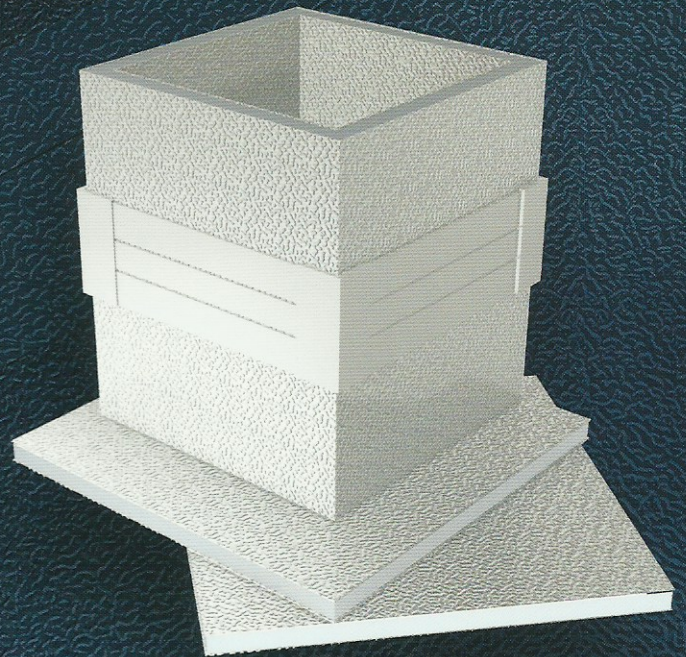
**THE EASIEST FORM
OF AIR CONDUCTION**

PIR ALU

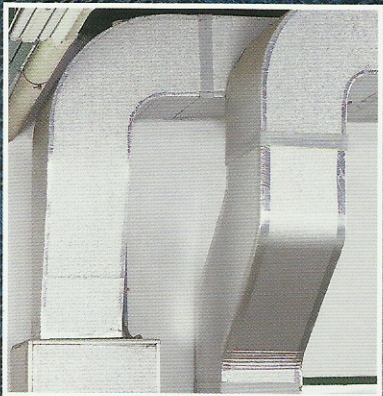
**PANELS FOR AIR CONDITIONING
AND VENTILATION DUCTS
(HVAC)**

FREE FROM CFC & HCFC

PIR ALU



Easy to produce ducts of any shape



THE PIR ALU® PANEL, MADE OF A CORE OF RIGID POLYISOCYANURATE (PIR) FOAM AND COATED WITH ALUMINIUM ON BOTH SIDES, IS ESPECIALLY DESIGNED FOR THE PRODUCTION OF AIR CONDITIONING DUCTS.

ITS CONSTITUTION GIVES IT EXCELLENT INSULATING PROPERTIES, HIGH RIGIDITY, GREAT LIGHTNESS, MAKES IT EXTREMELY EASY TO HANDLE AND FIT AND OFFERS OUTSTANDING ADAPTABILITY TO ANY INSTALLATION AND EXCELLENT TRANSPORTED AIR QUALITY, WITH THE CONSEQUENT FINANCIAL PROFIT.



Production of long lengths with a minimum of joints

EXCELLENT REACTION TO FIRE

When in contact with fire, the features of the polyisocyanurate foam favour the formation of a carbon cellular structure that protects the inner foam parts.

Thus, the speed of combustion is increasingly slower and the issue of smoke very low, as most of the structure becomes charred instead of turning into smoke.

CLEAN TRANSPORTATION OF INSIDE AIR

The air circulating inside the duct is always kept in its purest stage, as the inner surface of the duct is made of aluminium with a purity of over 99%, not allowing for condensation or for the accumulation of dust or micro-organisms.

The only precaution to be taken into account is that the silicon used as a sealant must include a fungicide treatment.

www.piralu.com

LACK OF CONDENSATION

The high level of heat insulation of the PIR ALU® panel prevents condensation on both sides of the panel. Even on extreme weather conditions, its outer surface will remain intact.

Likewise, the aluminium coating acts as a water vapour barrier to prevent water particles from forming on the inner insulation.

IMPROVE THE PERFORMANCE OF YOUR INSTALLATION

The use of ducts made using PIR ALU® panel notably improves the performance of your installation thanks to its low heat conductivity. Together with the water tightness of the product, the loss of frigories is minimized and air leaks through the joints are avoided.

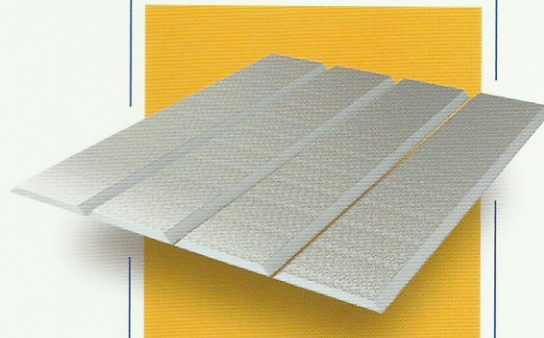
The PIR ALU® panel always keeps the air humidity, purity and temperature constant. Thanks to its embossed aluminium surface, it has a decorative finish that also ensures its quality and reliability.

■ Conductivity $\lambda = 0.023 \text{ W/m.K}$
 $= 0.020 \text{ kcal/h.m.}^\circ\text{C}$

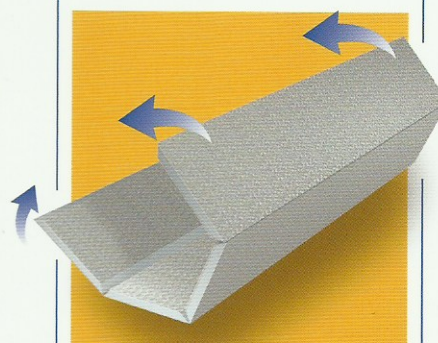
CONSTRUCTION OF A DUCT



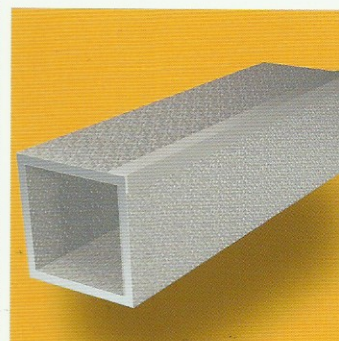
1- Original
PIR ALU Board



2- CUTTED boards



3- Gluing and
BENDING

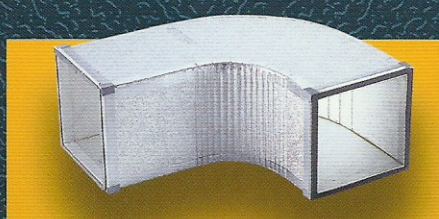


4- Finish

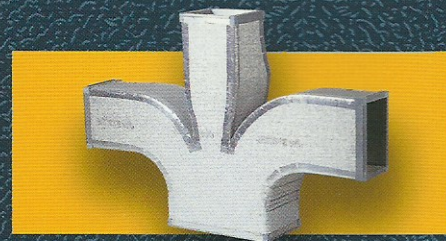
E L E M E N T S W I T H P I R - A L U [®] P A N E L



Straight duct



Curve



Branch with section change



Level change curve



Multiple branch

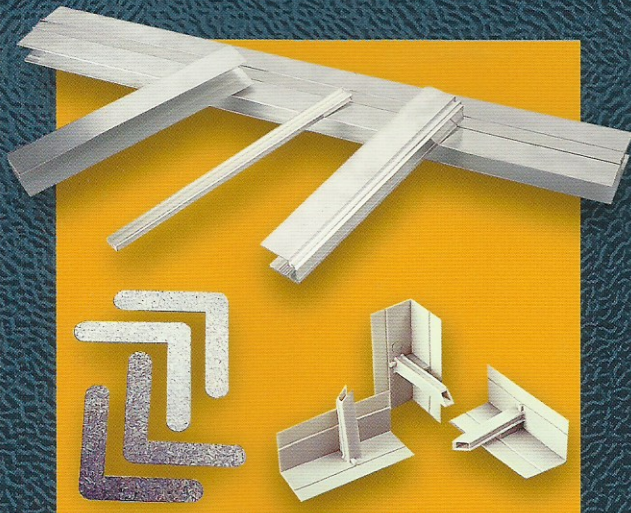


Section change curve

D E S C R I P T I O N A N D F E A T U R E S

- Aluminium sandwich panels with polyisocyanurate (PIR) foam
- Excellent heat conductivity coefficient $\lambda = 0.023 \text{ W/m.K}$

		PIR ALU [®] 35	PIR ALU [®] 45
Colour		Blue	Salmon
Density	kg/m ³	35	45
Aluminium thickness	μm	60	80
Sheet measurements	mm	3000x1200x20	4000x1200x20
Presentation	units/pack	12	10



P R O F I L I N G

The PIR ALU[®] panel has its own optional profiling system to make assembly easier, as well as a full range of accessories for machining.

We have a range of profiling components especially created to ensure the perfect joint between the ducts made using PIR ALU panel: aluminium profiles, PVC joint covering angles, galvanized plate brackets and adhesive foam gaskets.

P Poliuretanos

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