



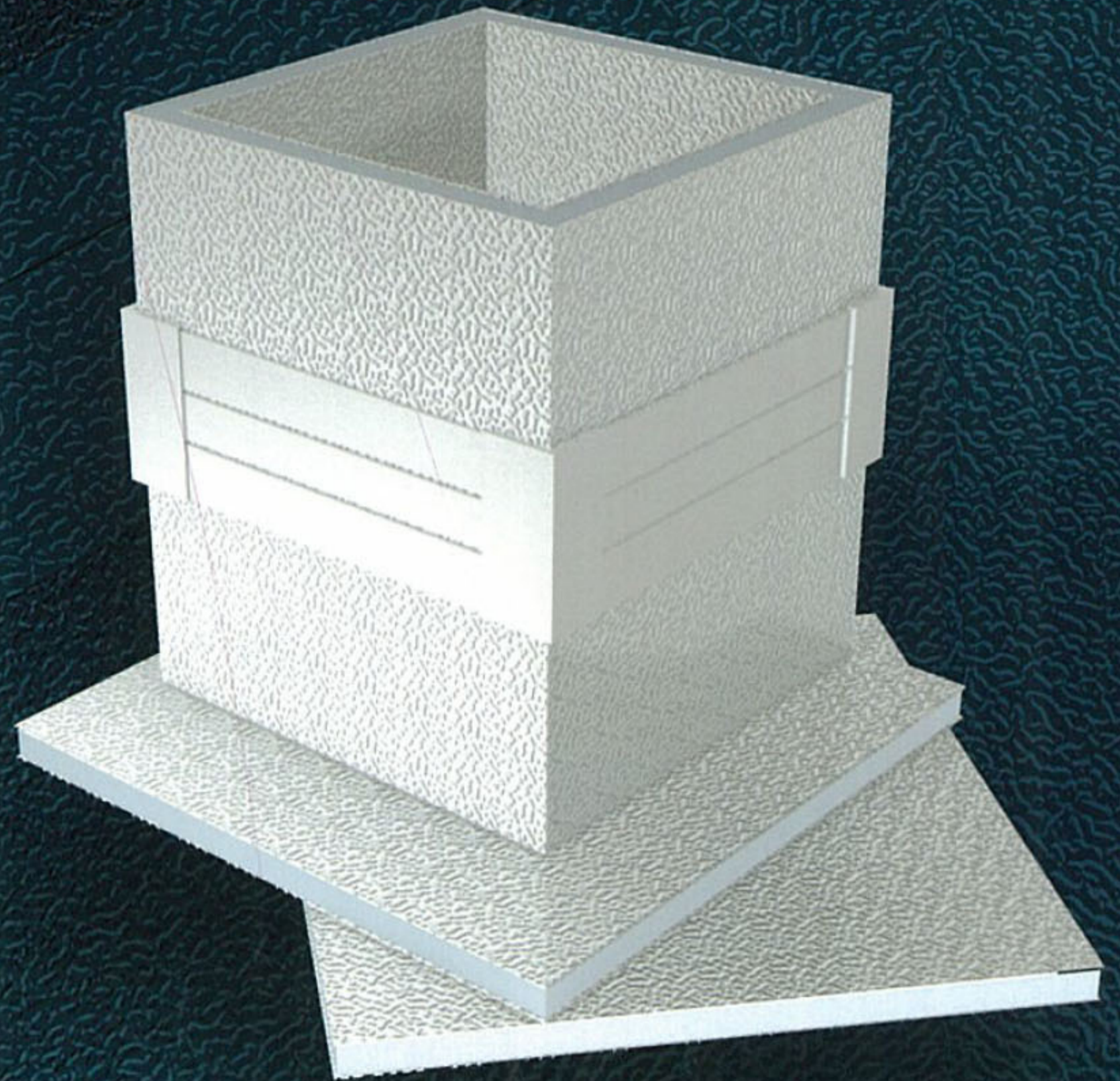
**THE EASIEST FORM
OF AIR CONDUCTION**

PIR ALU

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

FREE FROM CFC & HCFC

PIR ALU



Easy to produce ducts of any shape



PANEL PIR-ALU[®] is made of a rigid polyisocyanurate (PIR) CORE foam, faced with embossed ALUMINIUM foil on both sides. PANEL PIR-ALU[®] is specifically designed for the construction of pre-insulated air conditioning ducts.

BECAUSE OF ITS VERY NATURE, PANEL PIR-ALU[®] HAS EXCELLENT THERMAL INSULATION PROPERTIES, HIGH RIGIDITY, GREAT LIGHTNESS. IT IS VERY EASY TO HANDLE AND TO ASSEMBLE, MOREOVER IT OFFERS AN OUTSTANDING ADAPTABILITY TO ANY INSTALLATION AND A SUPERB QUALITY OF TRANSPORTED AIR WITH CONSEQUENT ECONOMIC BENEFIT.



Production of long lengths with a minimum of joints

EXCELLENT REACTION TO FIRE

When in contact with fire, the characteristics of the polyisocyanurate foam favor the formation of a coal cellular structure that protects the inner parts of the foam. Thus, the rate of burning is becoming slower and the release of smoke very low because much of the material remains as part of the charred structure instead of becoming smoke.

- *Reaction to fire (EN 13501-1): Euroclass B-s2,d0*
- *Index of smoke (NFF 16-101): Class F-1*

CLEAN AIR TRANSPORTATION

The air flowing through the air duct will always remain in its purest form, as the inner surface of the duct is made of aluminum with a purity exceeding 99%, not allowing for condensation, nor for dust accumulation or micro-organisms proliferation. The only precaution to be aware of is that the silicone used to seal the air duct must have a fungicide treatment.

www.piralu.com

ABSENCE OF CONDENSATION

The high thermal insulation performance of Panel PIR-ALU® prevents condensation of water on both sides of the panel. Even on days with an ambient temperature of 30° and a relative humidity of 90% its outer surface remains intact. Furthermore, the embossed aluminum coating acts as a vapor barrier preventing the formation of water particles inside the air duct.

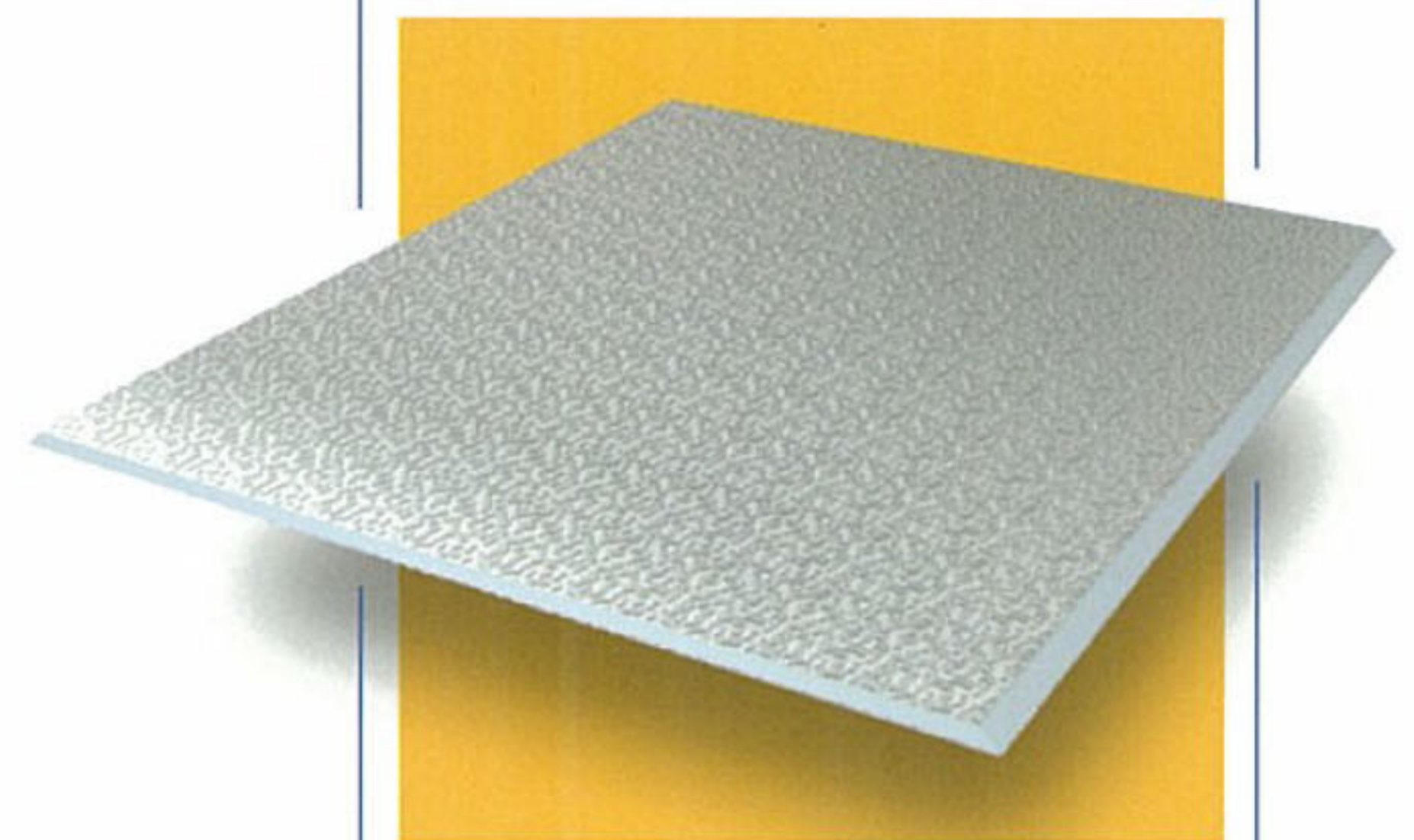
- *Thermal Conductivity $\lambda_D = 0,024 \text{ W/m}\cdot\text{K}$*

IMPROVES THE PERFORMANCE OF YOUR INSTALLATION

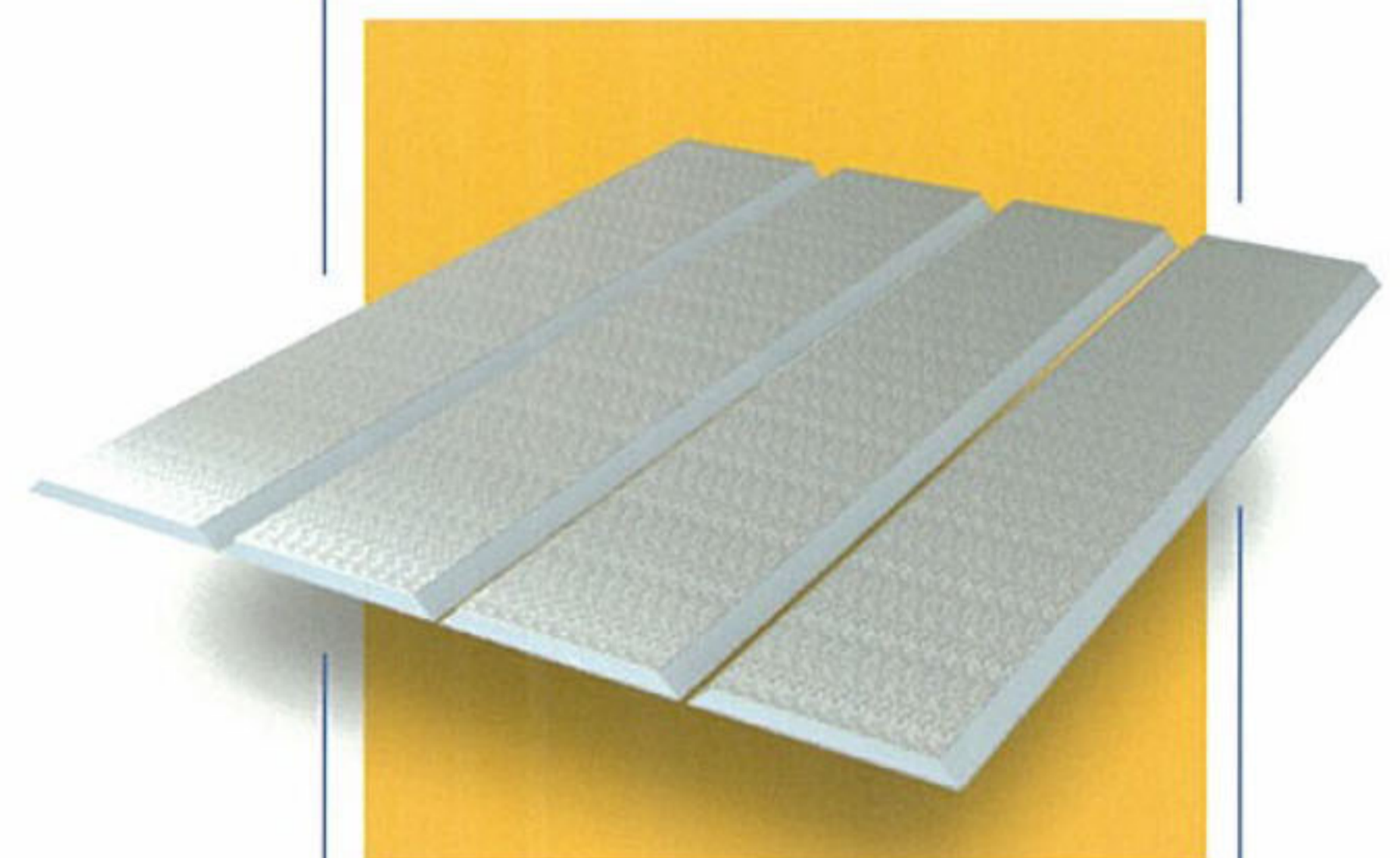
The use of air ducts made from Panel PIR-ALU® greatly improves the performance of your installation due to its low thermal conductivity value. Together with tightness of the product, BTU losses are minimized and it prevents air leakage from the joints.

Panel PIR-ALU® always keeps humidity, purity and temperature of the air inside the duct unaltered. Thanks to its embossed aluminium surface, it has a decorative finish that also ensures its quality and reliability.

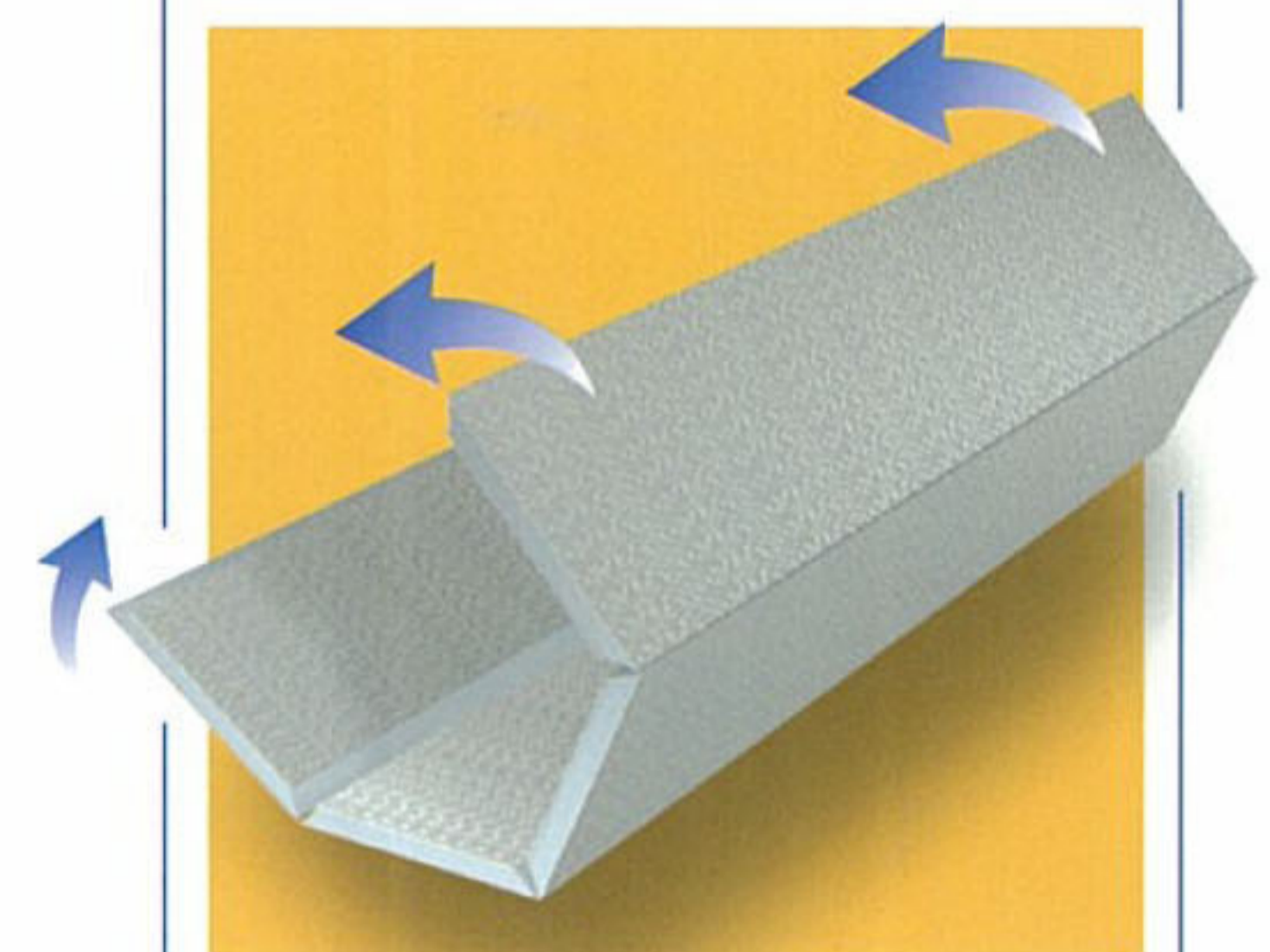
CONSTRUCTION OF A DUCT



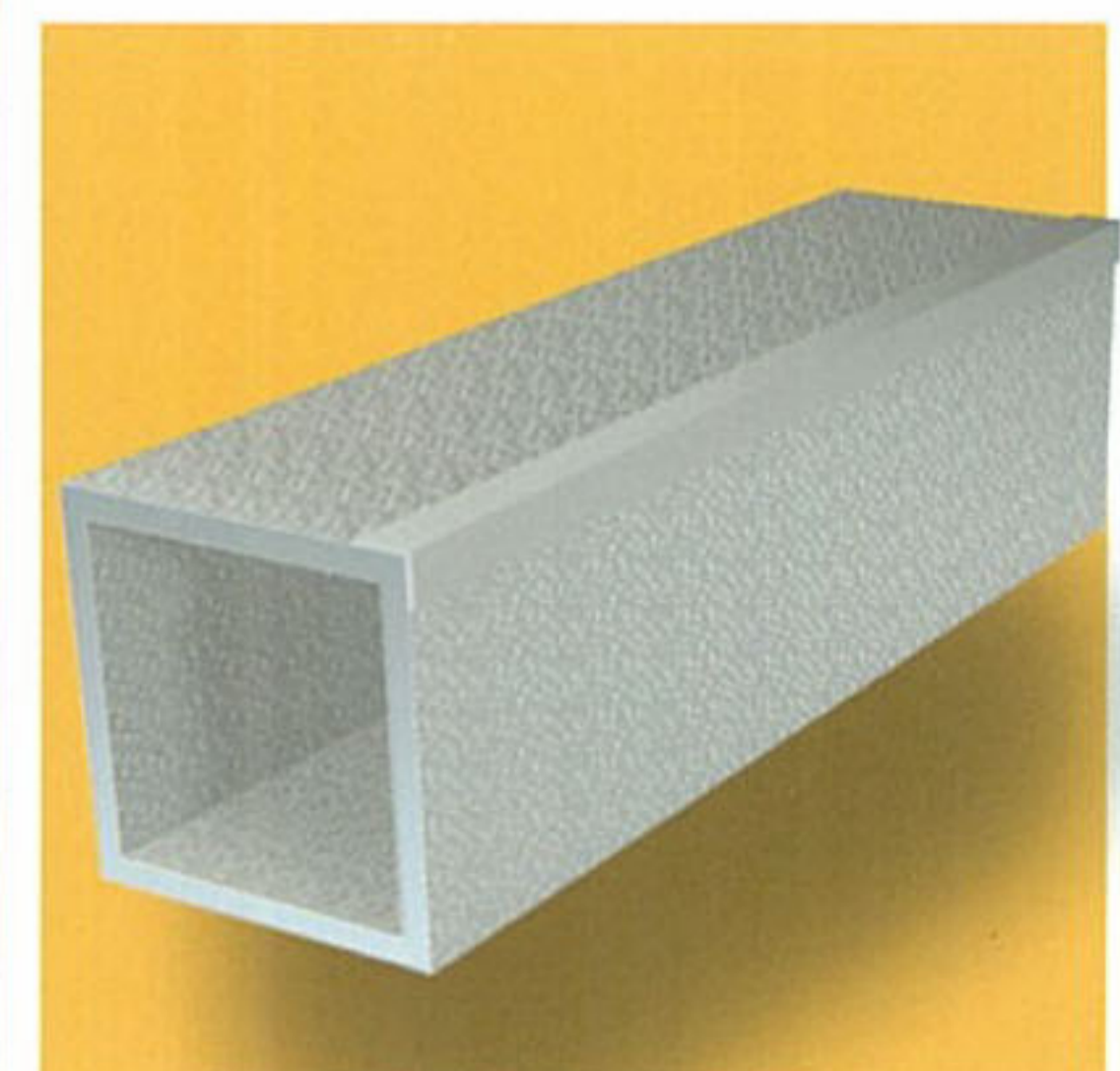
1 PANEL PIR-ALU



2 PANEL CUTOUT

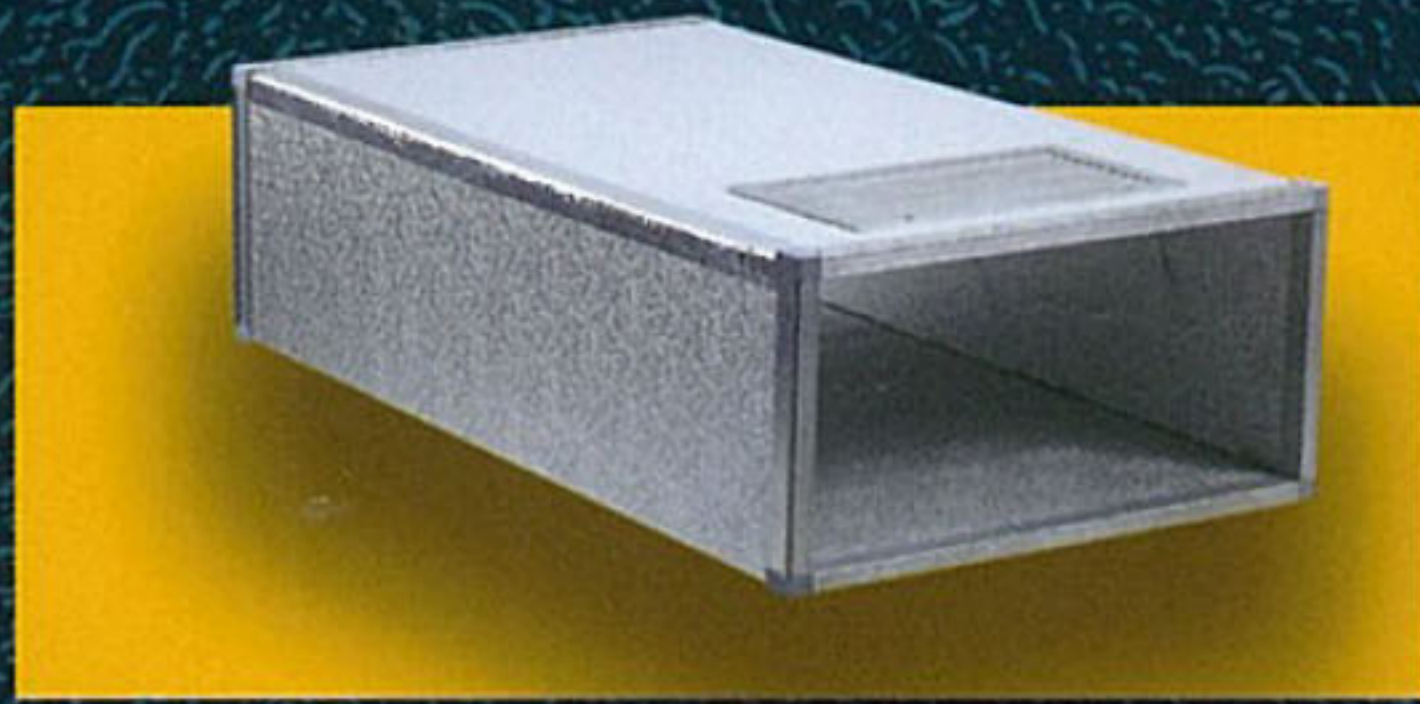


3 GLUING AND ASSEMBLING

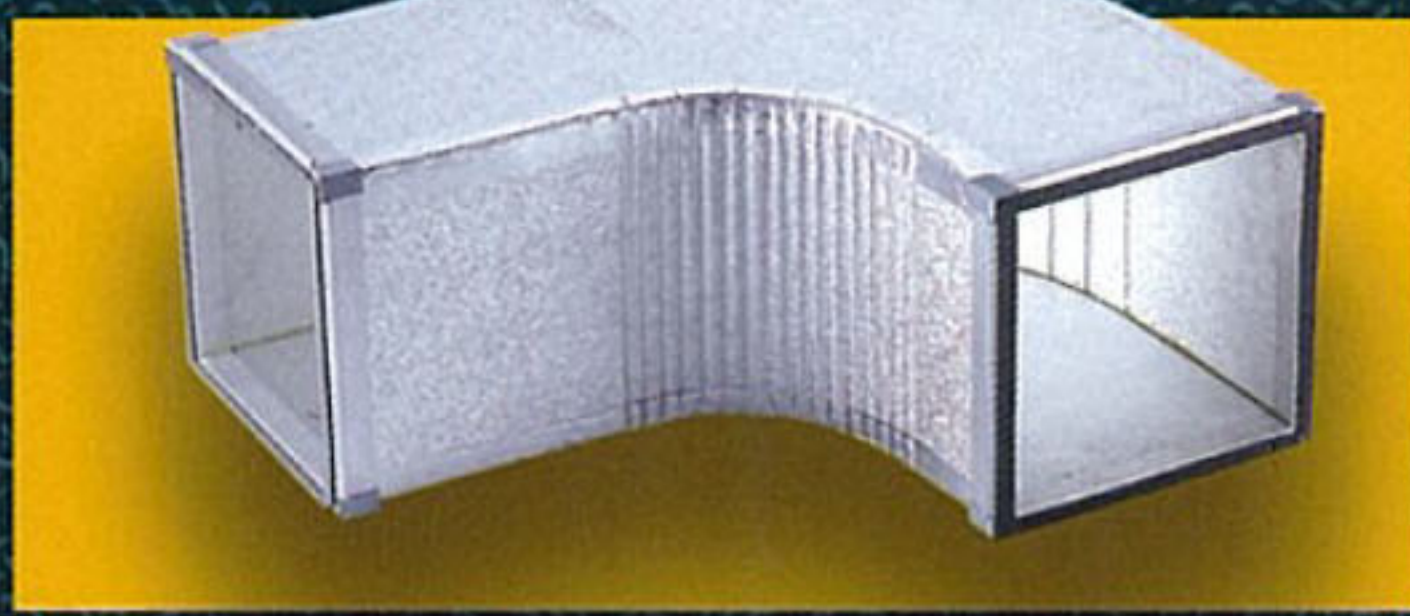


4 FINISHED AIR DUCT

ELEMENTS WITH PIR-ALU® PANEL



Straight duct



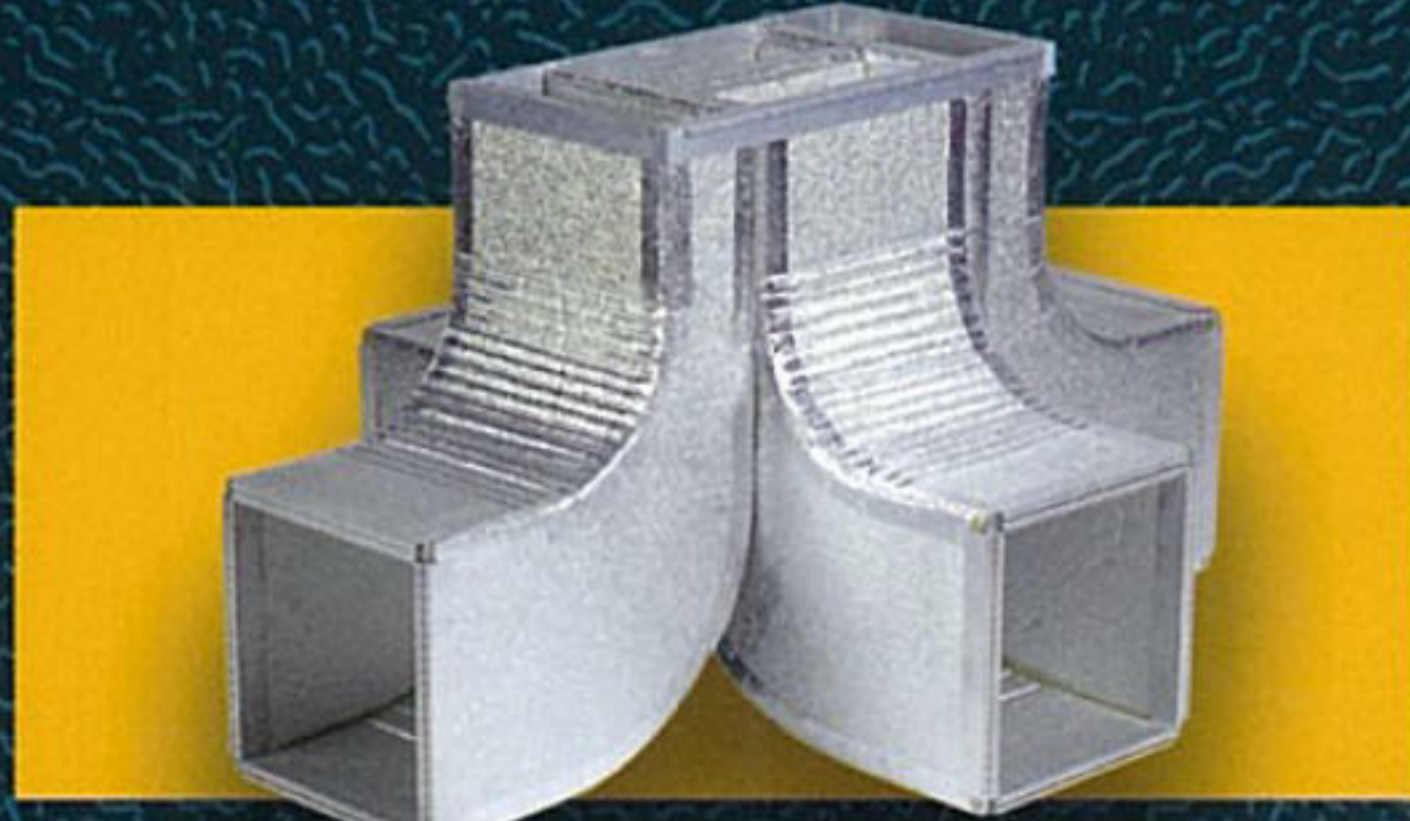
Curve



Branch with section change



Level change curve



Multiple branch

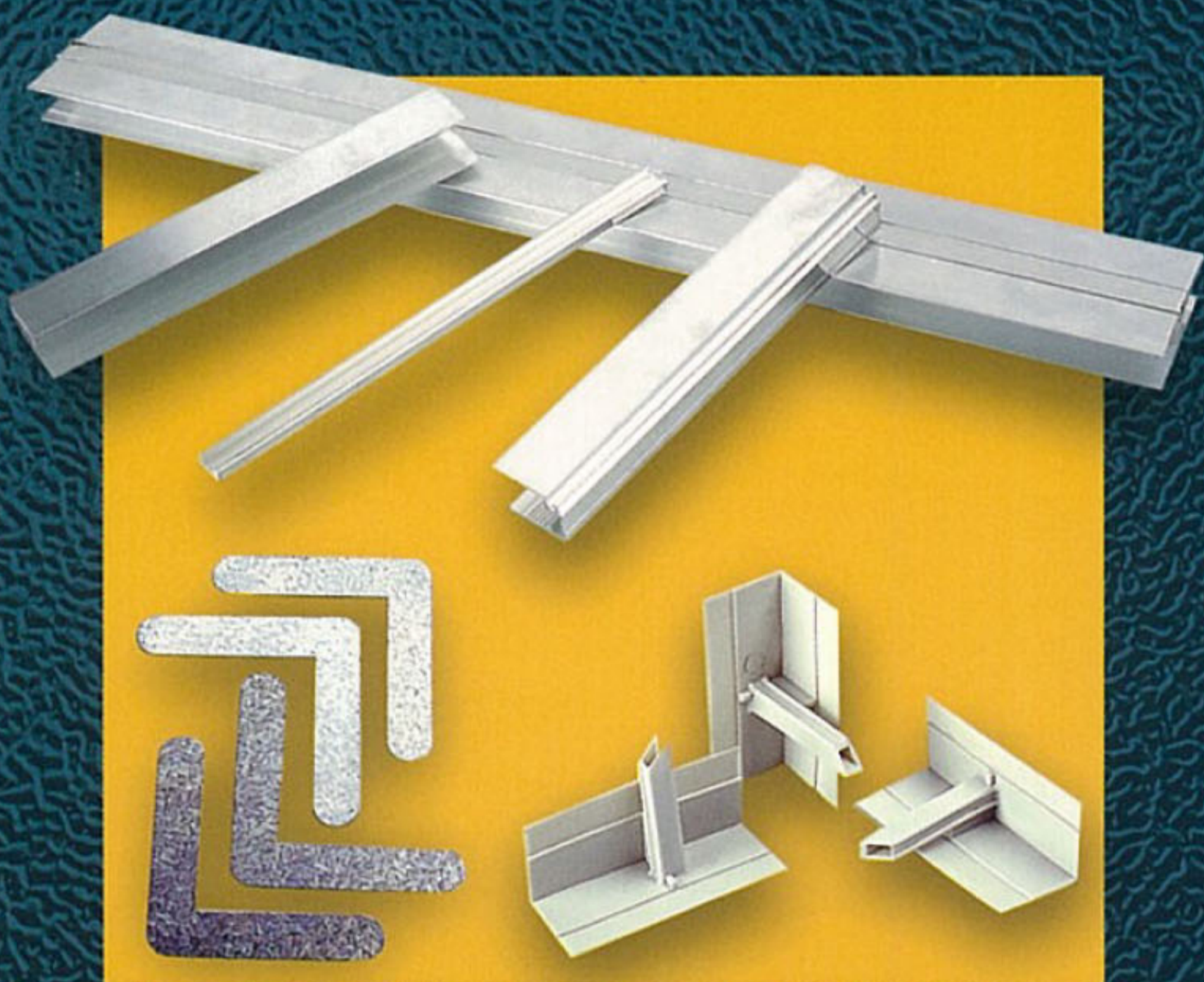


Section change curve

DESCRIPTION AND FEATURES

- Pre-insulated panels made of polyisocyanurate (PIR) foam coated with aluminium foil
- Excellent thermal conductivity coefficient $\lambda_D = 0,024 \text{ W/m}\cdot\text{K}$
- Reaction to fire: Euroclass B-s2, d0
- Smoke index: Class F-1

		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



PROFILES

Panel PIR-ALU® has its own optional profiling system to make assembly easier, as well as a full range of accessories for machining the panels.

We have a full range of profiling components specially created to ensure the perfect assembling between air ducts: aluminium profiles, PVC joints, galvanized plate brackets and adhesive foam gaskets.

P Poliuretanos

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