

PT IDJEN INTI PRAKARSA
Product Catalogue

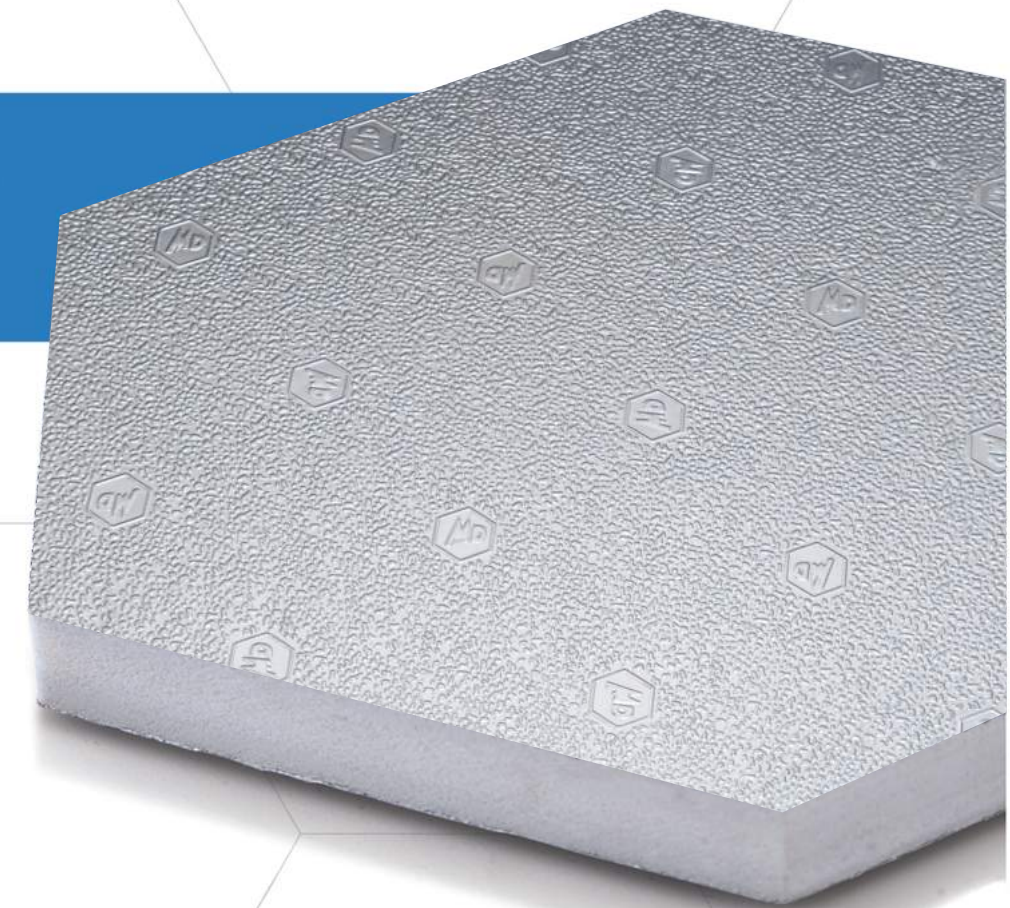


When
technology
meets **quality**

PT. IDJEN INTI PRAKARSA

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MODULDUCT®







MODULDUCT® | Nature **Friendly Technology**



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The Newest technology in our machine made Modulduct PIR Panels density constant and continuous in all duct sections.

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- Aluminum Jack Planes
- V Cutter Knife
- Painted Steel Bending Machine

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- Plotting
- Cutting
- Bending, etc

01

PROFILE

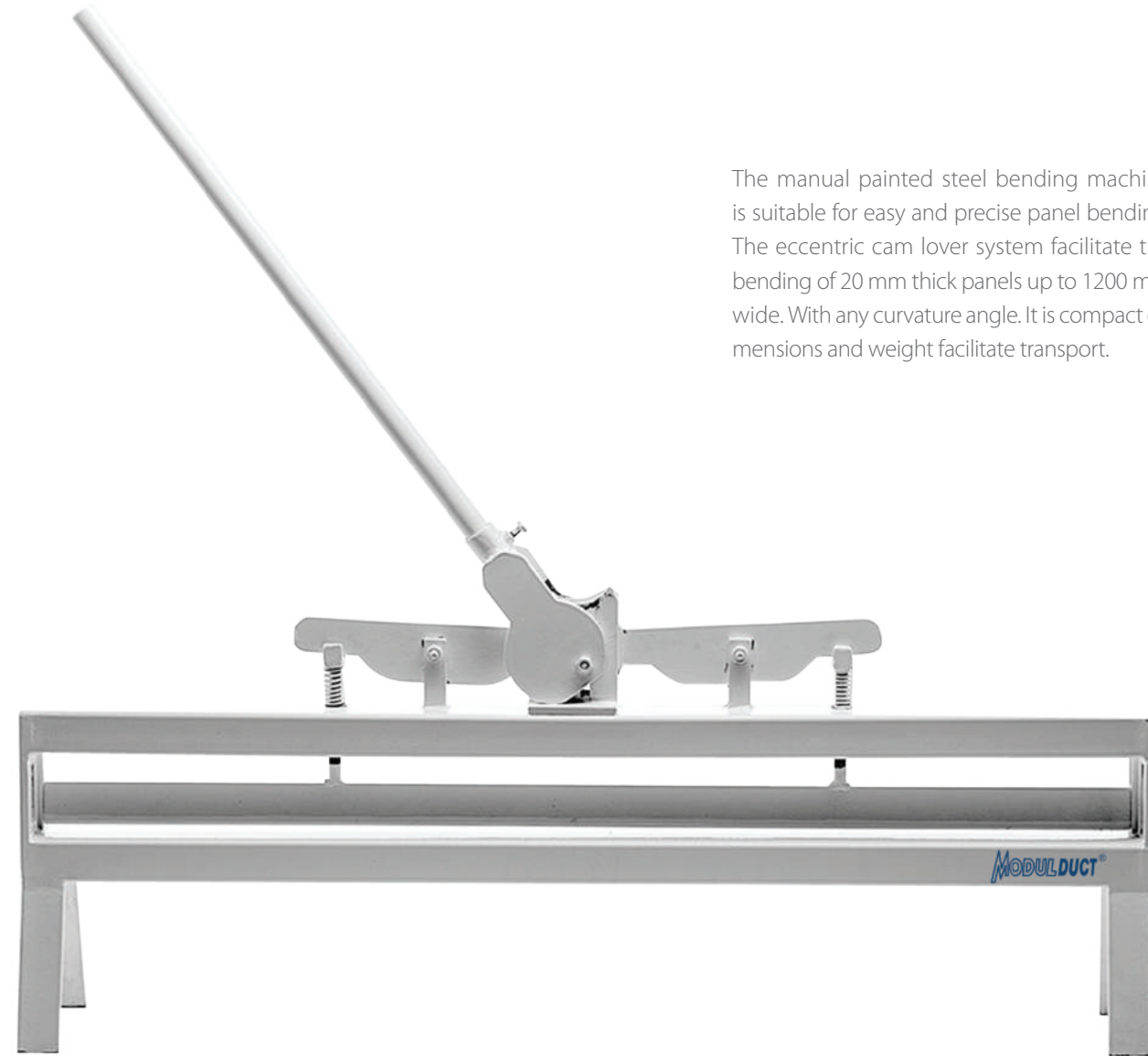


The innovation in technology continuously made a revolution in air distribution systems.

Construction Phase



Special Tools for Modul Duct Installation



The manual painted steel bending machine is suitable for easy and precise panel bending. The eccentric cam lever system facilitates the bending of 20 mm thick panels up to 1200 mm wide. With any curvature angle. Its compact dimensions and weight facilitate transport.



The V cutter knife as a tool slide allows the slot of relevant blade rapid cartridges for the "V" cut at 45° of the foam.



45° Left or right jack plane and 90° jack. Cast aluminium jack planes have a special ergonomic shape that plants 45° left or right and 90° cuts to be made with speed and precision. Jack planes have an internal lodge in which you can find 5 blade together with one hexagonal wrench.



Idjen Inti Prakarsa at A Glance

Nowadays the pre-insulated aluminum panel ducts certainly most innovative in the ducts system compare with the sheet metal ducts , which have clear technical, constructional, environmental friendly and economic advantages.

PT. Idjen Inti Prakarsa is definitely leading company in air distribution product such as flexible duct, grilles, diffusers, damper and today - our newest product is pre-insulated aluminum duct panel system under brand Modulduct as a best solution in the air distribution fields.

02

PRODUCT



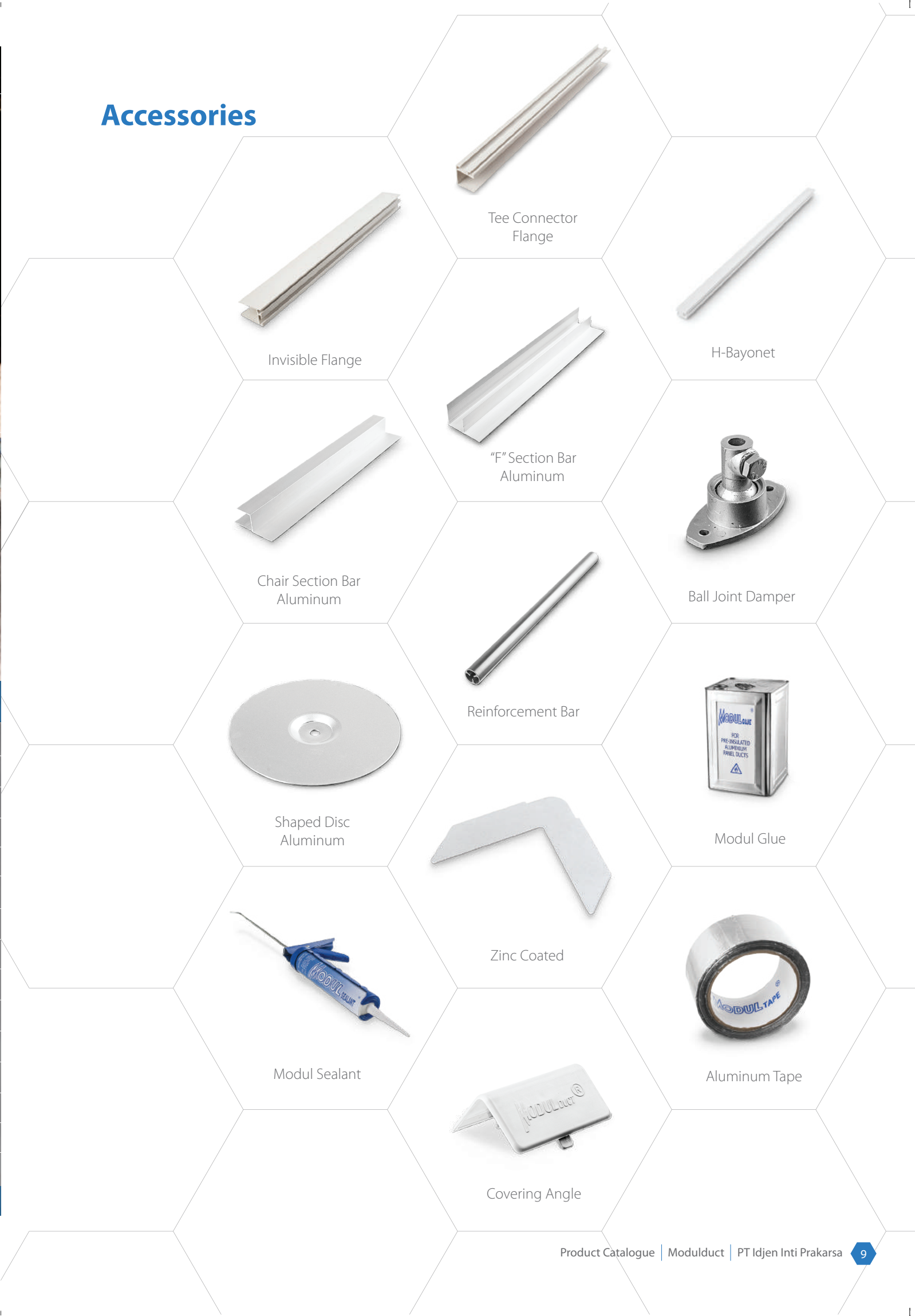
Equipped with the precised accessories and tools to made easy and support in cutting, assembly, modify, construct, and installed.

Product Specification

Thickness of Panel	20 mm
Panel Dimensions	4000 mm x 1200 mm x 20 mm
Density of PIR Panel	52 ± 2 Kg/m ³
Aluminium Foil Thickness	80 micron bothside
Compressive Strength	10% > 200 N/mm ²
Thermal Conductivity	0.02 W/m.K
R Value	1.71
Flame Retardant	Class B1
Friction Coefficient	0.0135
Weight	1.48 kg/m ²
Working Temperature	- 60 °C ~ + 80 °C
Humidity	0 – 100%
Pressure Max in Duct	2000 Pa
Air Flow Max in duct	12 m/s
Green Product	Non CFC

Note: We also supply the various thickness (25 mm, 30 mm ~ 50 mm)

Accessories



Invisible Flange



Tee Connector Flange



H-Bayonet



Chair Section Bar Aluminum



"F" Section Bar Aluminum



Ball Joint Damper



Shaped Disc Aluminum



Reinforcement Bar



Modul Glue



Zinc Coated



Modul Sealant

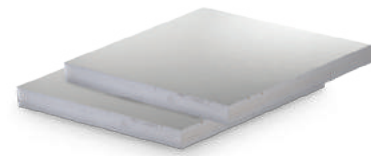


Aluminum Tape



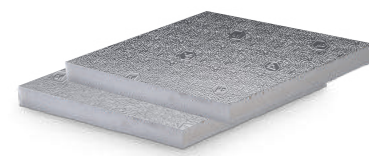
Covering Angle

PIR Sandwich Panels



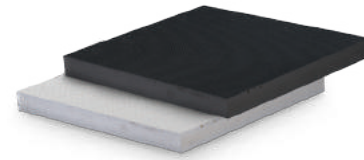
Modul Duct Smooth Panel
Embossed + Smooth

Modul duct smooth panel density 52 +/- 2 Kg/m³, 20 mm thickness, coated on both sides by 80 micron aluminum foil, embossed on one side, smooth on the other side.



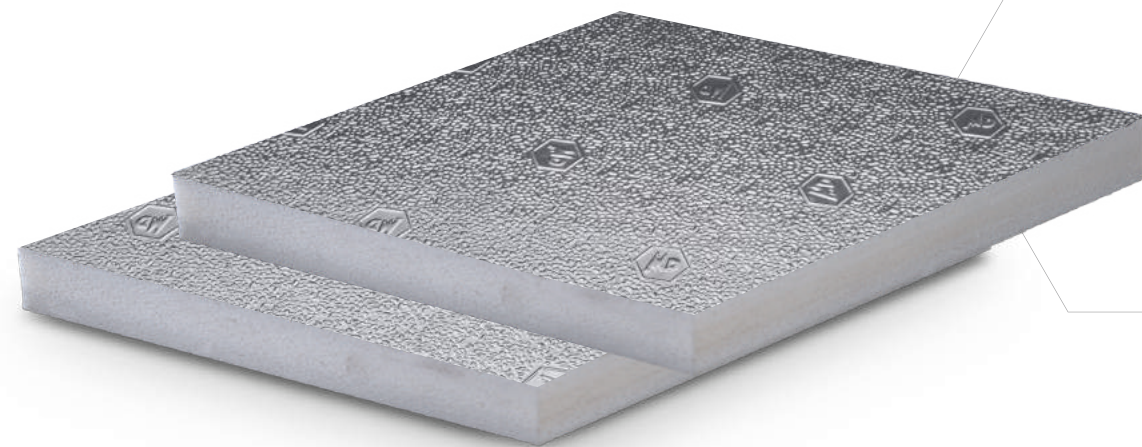
Super Modul Duct Panel
Embossed + Embossed

Outdoor use super modul duct panel density 52 +/- 2 Kg/m³, 20 mm thickness, coated on one side with 200 micron and the other side with 80 micron aluminum foil.



Coloured Modul Duct Panel
Embossed + Embossed with colour

Coloured modul duct panel density 52 +/- 2 Kg/m³, 20 mm thickness, coated on both sides by 80 micron. Embossed aluminum foil and coloured (Black or White) on one side for exposed purpose.



Modul Duct Panel
Embossed + Embossed

Modul duct panel density 52 +/- 2 Kg/m³, 20 mm thickness, coated on both sides by 80 micron aluminum foil.



Modulduct

Modulduct – Pre-Insulated Aluminum Panel Ducts is a new invention in Duct System which is meet all the needs in fields working.

Consisting of High Density PIR (Poly Isocyanurated) Panel with aluminum facing on both sides – Modulduct Upper and Bottom layers are made of Embossed or Smooth Coating Aluminum Foil of 80 microns thickness or above, the whole system to meet the fire resistance standards of industrial buildings.

Modulduct – Pre-Insulated Aluminum Panel Ducts is equipped with the precised accessories and tools to made easy and support in cutting, assembly, modify, construct, and installed. The whole system will have long lasting insulation, high hygiene standards, friendly environment, extremely low noise levels, and maximum reduction of friction loss. Not only the material, equipment, accessories, we also give the “Technical Know How” for consultant and contractors.

Why Modulduct?

Thermal Insulation Properties

The newest technology in our machine made Modulduct PIR Panels density constant and continuous in all duct sections. Special closed cell insulation guarantees low thermal conductivity and limit the risk of condensation.

Friction Loss

The Modulduct PIR Panel system have low number of flanges and limited surface roughness keep linear friction losses at very low levels.

Airtight Seal

The Fully seal system made absolutely no air leakage compare than traditional ducts.

Energy Saving

With the lowest thermal conductivity of 0.02 W/m.K compare with the other thermal insulation material was the best thermal insulation and optimum airtight seal allow, increasing efficiency and reducing operating costs.

Hygiene and Air Quality

The use of aluminum for the internal surfaces of the ducts ensures hygiene and cleanliness. The problem of ageing of the insulation and consequent release of particles is non-existent, resistant to fungus growth and contains no microfiber.

Safety

Modulducts have a low participation in fire, do not drop and smokes have a reduced opacity and toxicity. Modulducts is in conformity with the requirements of the most restrictive international regulations.

Light Weight

The very light weight only 15% of sheet metal ducting allows a reduction of weight on the structures, supporting points, workmanship costs and materials necessary for the installation.

Silent Operations

The sandwich structure (aluminum – insulating material – aluminum) guarantees a good acoustic behavior. Vibration and reverberation are stopped by the insulating material, contributing to a higher comfort in the environment where the modulduct is installed.

Duration

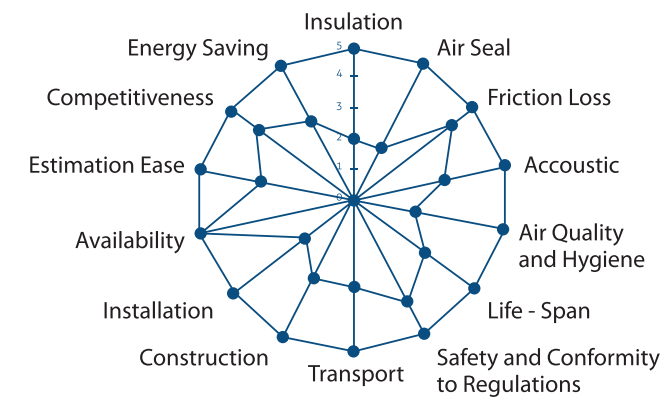
The outer aluminum coating coupled with the insulating material provides sturdiness, rigidity and good resistance to corrosion, erosion and deformation even in special applications. The longer life span around 20 years.

Construction Easiness

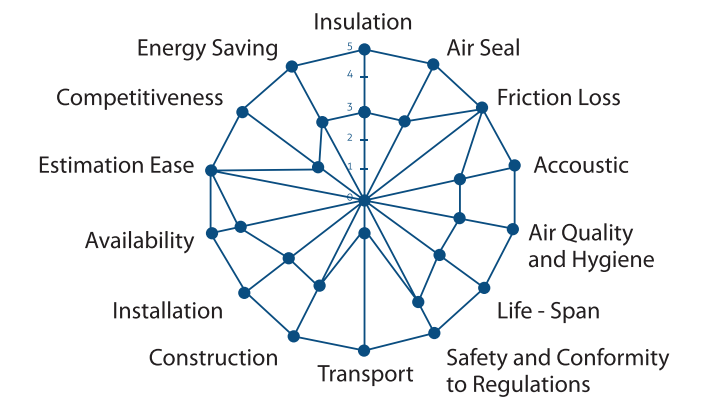
Possibility of manufacturing ducts in the workshop or directly at job site with considerable advantages on transport costs, it's reduce construction time and cost.

Product Comparison of Properties

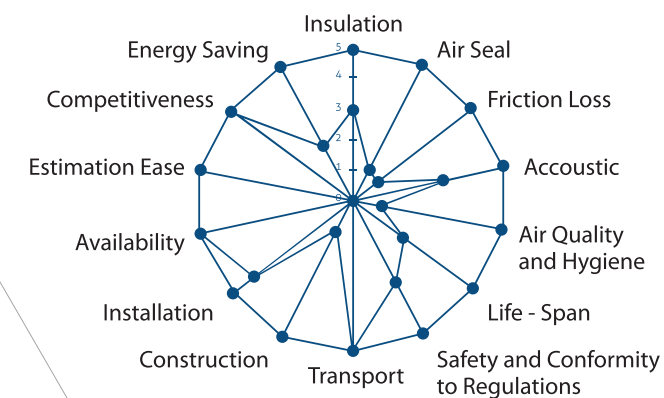
Rectangular Zinc Plated Sheet



Spiral Type Zinc Plated Sheet Metal



Flexible Hose Ducts



Modul Ducts Pre-Insulated Aluminum Ducts

