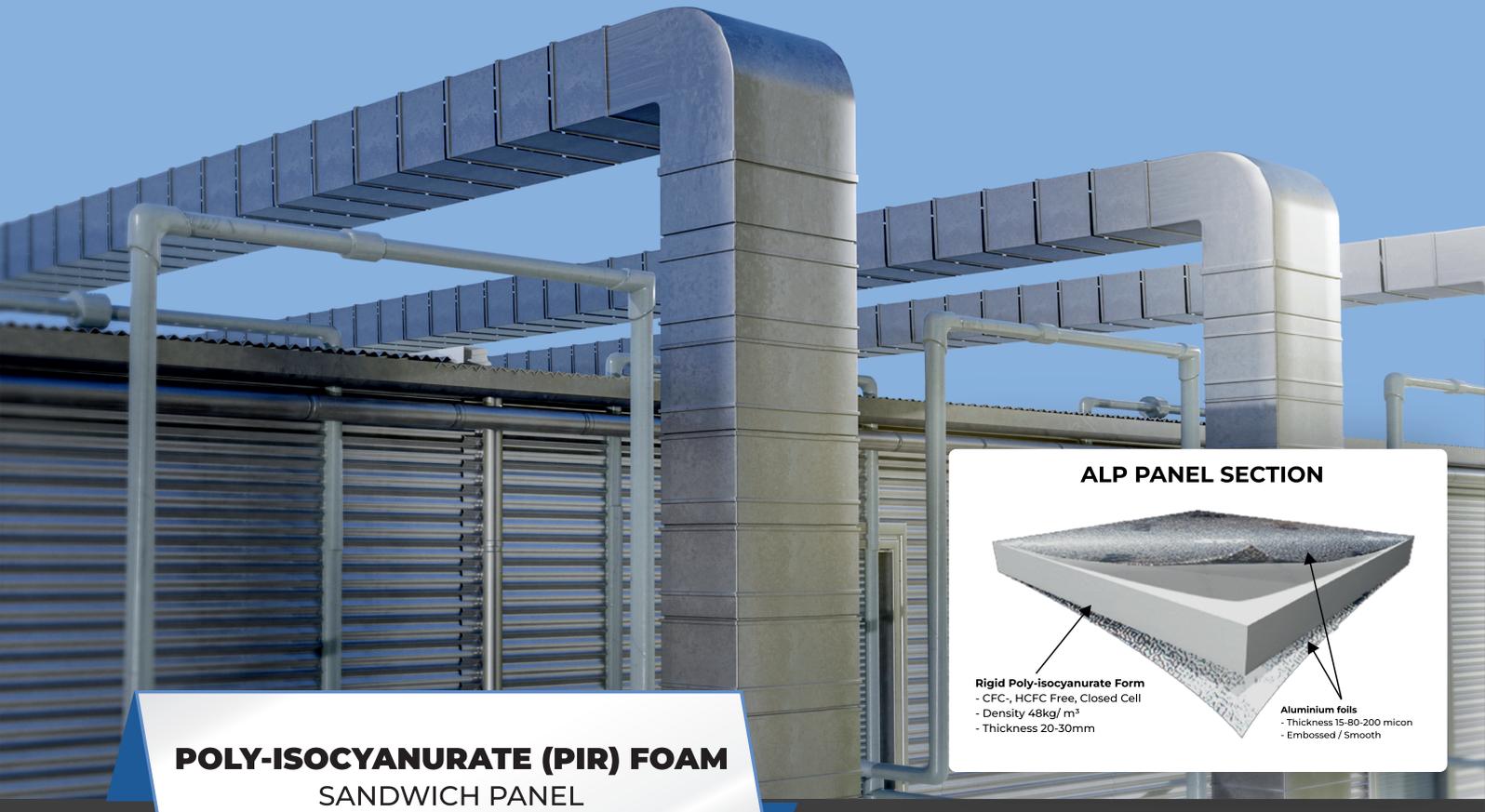
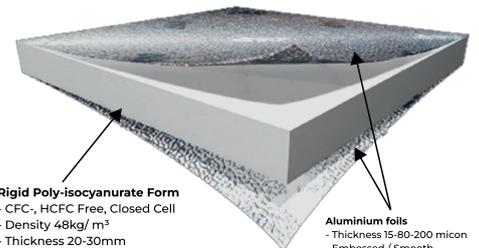


ALP PIR DUCT



POLY-ISOCYANURATE (PIR) FOAM SANDWICH PANEL

ALP PANEL SECTION



Rigid Poly-isocyanurate Form
- CFC-, HCFC Free, Closed Cell
- Density 48kg/ m³
- Thickness 20-30mm

Aluminium foils
- Thickness 15-80-200 micron
- Embossed / Smooth

ADVANTAGES

- ◆ Low "U" Value
- ◆ Fire Resistance, BS 476 Part 5, 6 & 7 (Class O)
- ◆ No Water-Vapour Transmissions
- ◆ Environment Friendly, CFC & HCFC Free
- ◆ Anti Rodent, Anti Fungal
- ◆ Fiber Free
- ◆ High-Compressive Strength
- ◆ Noise Reduction

CERTIFICATIONS



PRODUCT DESCRIPTION

ALP PIR slab comprises of rigid thermoset polyisocyanurate (PIR) insulation core, faced on both sides with an embossed or smooth aluminum foil. The fiber-free core is manufactured with a blowing agent that has zero ODP (contains no CFC and HCFC) and GWP ≤ 5 .

PIR duct system includes various accessories that ensure proper assembly, sealing, and performance. These accessories support the installation, connection of the ductwork while maintaining thermal insulation, air tightness, and structural integrity.

Applications	Commercial & Residential Buildings, Industrial HVAC Systems, Hospitals & Healthcare Facilities, Data Centers & IT Infrastructure, Airports & Transportation Facilities
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PRODUCT RANGE

PANEL THICKNESS	ALUMINIUM FOIL THICKNESS	ALUMINIUM FOIL TYPE
20mm (Indoor)	15-80-200micron	Embossed
30mm (Outdoor)		Smooth

TECHNICAL DETAILS

PROPERTIES	VALUES	TEST METHOD
Material Description	CFC/HCFC free closed cell Polyisocyanurate (PIR) foam sandwiched between Aluminum foil on both sides	
Density	48kg / m ³	ISO 845: 2006
Thermal Conductivity (K Value)	0.019 W /mk @ 23 C	ASTM C 518
Dimension (LXW)	4000 x 1200 mm	DIN EN 14706 ASTM C 411
Aluminum Foil	a) Embossed (outer) / Embossed (inner) b) Embossed (outer) / Plain (inner)	
Aluminum Foil Thickness	a) 15 – 15 microns b) 80 – 80 microns c) 80/200 – 200 microns	
Panel Thickness	a) 20mm (indoor Application) b) 30mm (outdoor Application)	
FIRE & SMOKE CHARACTERISTICS		
a) Fire Propagation	Class 0	BS 476 Part 6 & 7.
b) Surface spread of flame	Class 1	BS476 Part 7
c) Surface burning characteristics	Class A	ASTM E 84
d) Flammability	Class V-0	UL94
Water vapor diffusion transmission	0.00 Perms	ASTM E96
Water absorption	0.03 %	ASTM C209
Rupture Strength	Up to 2000 Pa	EN 13403
Air Velocity	Up to 35 m/s	
Friction Factor	0.0135	
Sound Transmission Class		
a) Resistance to Fungi	Zero growth	ASTM G21
b) Resistance to Bacteria	Passed	ISO 22196
Chemical Analysis (Leachable ions)	Very low	ASTM C 871
Ozone Resistance	Excellent	
CFC & HCFC, dust, fibers, asbestos	Free	

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Disclaimer: Although these values represent actual results achieved in tests, they should only be used as a guide. ALP Aeroflex cannot guarantee the performance of the product as all situations are different & should be treated separately. All statements & Technical informations are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the informations are appropriate for specific use intended by the recipient.