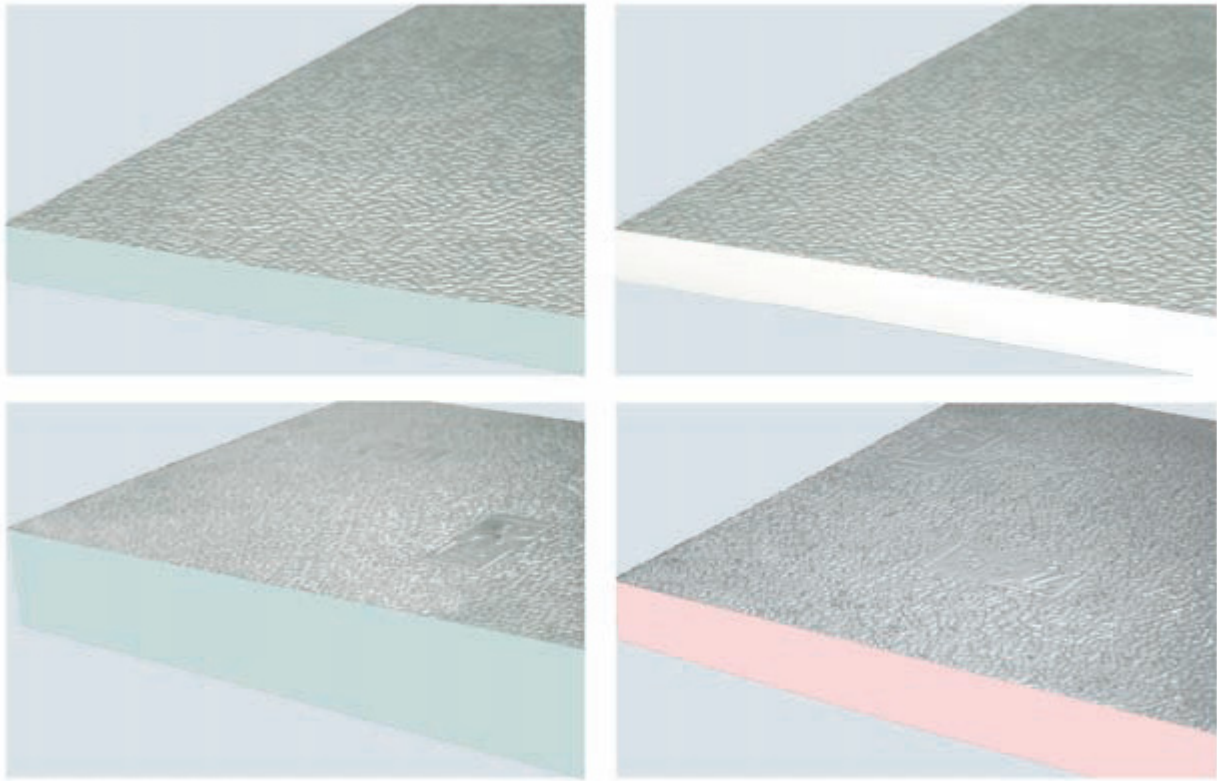


TECHNICAL DATA SHEET

What is PAL PIR? PAL PIR is a "Polyisocyanurate" sandwich panel composed of an expanded polyisocyanurate rigid foam board covered on both sides by an aluminum foil, suitable for the construction of air ducts in heating and air-conditioning installations.



CHARACTERISTICS	
Dimension of the Panel	4000 x 1200 mm
Aluminum Finishing	embossed / embossed The external side of the aluminum is lacquered with a 3g/m ² of corrosion resistant and ultraviolet rays protection
Insulating Material	Closed cell rigid expanded polyurethane foam, CFC and HCFC free
Thermal Conductivity	0.020 at 10°C
Closed Cell	>95%

The aluminum foils covering the panel assure a perfect vapor barrier.

Thickness of the panel	20 mm	30 mm
Thickness of the aluminum	80/80 microns	80/200 microns
Density of the foam	45 kg/m ³	50 kg/m ³
Weight of the panel	1.36 kg/m ²	1.90 kg/m ²

FIRE REACTION	
CLASS O	according to British Standard 476 Part 6 and 7
CLASS A	according to ASTM E84

TEMPERATURE OF USE

The air ducts made with 20P80 panels can be used in installations with temperatures ranging from -25°C to +80°C, always operating. No relevant reduction of the insulating, chemical or physical characteristics of the panel will be observed.

PRESSURE OF USE

20P80	The air ducts made can be used in installations with pressures up to 1000 Pa, always in accordance with the PAL construction guidelines.
30P80	The air ducts made can be used in installations with pressures up to 1750 Pa, always in accordance with the PAL construction guidelines.

SPECIFICATION OF USE

The air ducts fabricated by using 20P80 panels can be installed in plants: <ul style="list-style-type: none"> with air speed up to 15 m/s with pressures up to 1000 Pa indoor
The air ducts fabricated by using 30P200 panels can be installed in plants: <ul style="list-style-type: none"> with air speed up to 35 m/s with pressures up to 1750 Pa outdoor

Our PAL panels comply with International Standards, according to British and well known American Standards.

PROPERTIES	CLASSIFICATION / VALUE	REFERENCE
Fire Propagation Index	Class "0"	BS 476 Part 6
Surfaces Spread of Flame	Class "1"	BS 476 Part 7
Flame Spread Index	Class "A"	ASTM E-84, NFPA 255 UL 723, NFPA 101 Life Safety Code
Smoke Developed Index	Class "A"	ASTM E-84, NFPA 255 UL 723, NFPA 101 Life Safety Code
Toxicity Index	5.7 Average S.O.D. <200	NES – 713 IMO Resolution MSC 61 (67)
Epiradiateur Test	M1	NFP 92-501
Compressive Strength	220.9 kpa	ASTM D1621
Flexural Strength	1170 kpa	ASTM C203
Sound Attenuation Test	Average SRI (100-3150 Hz) 14.1	BS 2750
Water Absorption Level	0.14% - 24 hours immersion	ASTM C209

Pal SYSTEM INTERNATIONAL
Pre-Insulated Ducting Technology

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warringtonfire - mideast
 Listing No. 016
PAL Panel Class O

global safety