

GENERAL CHARACTERISTICS

Aluminum / polyurethane sandwich panel composed of expanded polyurethane rigid foam board covered on both sides by an aluminum foil, suitable for the construction of air ducts in heating and air-conditioning installations.

TECHNICAL CHARACTERISTICS

Dimension of the panel	4000 x 1200 mm or 3000 x 1200
Thickness of the panel	20 mm
Thickness of the aluminum	80/80 microns- Embossed- Embossed
Density of the foam	50±3 kg/m ³
Weight of the panel	1.71 kg/m ²
Aluminum finishing	embossed / embossed

The external side of the aluminum is lacquered with a 3g/m² of corrosion resistant and ultraviolet rays protection

INSULATING CHARACTERISTICS

Insulating Material:	Closed cell rigid expanded polyurethane foam, CFC and HCFC free.
Density	50±3 kg/m ³ .
Thermal Conductivity:	0.023 at 10°C
Closed Cell:	>95%

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

FIRE REACTION

Class O, according to British Standard 476 Part 6 and 7.
Class A, according to ASTM E84
EN 13501: B-S1-d0

TEMPERATURE OF USE

The air ducts made with **AD-PIR-20-10** panels can be used in installations with temperatures ranging from -80°C to +110°C, always operating. No relevant reduction of the insulating, chemical or physical characteristics of the panel will be observed.

PRESSURE OF USE

The air ducts made with **AD-PIR-20-10** panels can be used in installations with pressures up to 1750 Pa, always in accordance with the Alpha construction guidelines.

SPECIFICATION OF USE

The air ducts fabricated by using **AD-PIR-20-10** panels can be installed in plants:

- with air speed up to 15 m/s
- with pressures up to 1750 Pa
- indoor