

ALP System Active



Pre-insulated HVAC Ducts - **ANTIMICROBIAL** Technical Data Sheet

ALP Active Antimicrobial Systems have been fully independently tested and assessed to Australian Ducting Standards as required under section A2 of the NCC; making it one of the only product that can be used as a full Pre- Insulated ducting system in Australia, this has been made possible by its comprehensive testing globally and locally. For Further information, please Contact "Ductus"

Advantages

- High quality of the air, granted by the silver-ions "antimicrobial" treatment on the internal side of the duct
- Long duration, granted by the characteristics of the aluminium foil (absolutely no rust or other type of deteriorations)
- No fibers release or dispersion
- Very high thermal insulation
- Outdoor installation without any additional protection
- Excellent air tightness
- Resistant to high pressure of the air (positive and negative)
- Resistant to salty atmosphere
- Easy access for maintenance
- Easy cleaning

Construction

The ALP SYSTEM ACTIVE ducts are fabricated using a rigid polyurethane foam board, faced on both side by an aluminium foil. On one side, the aluminium foil is treated with an antimicrobial compound based on silver ions.

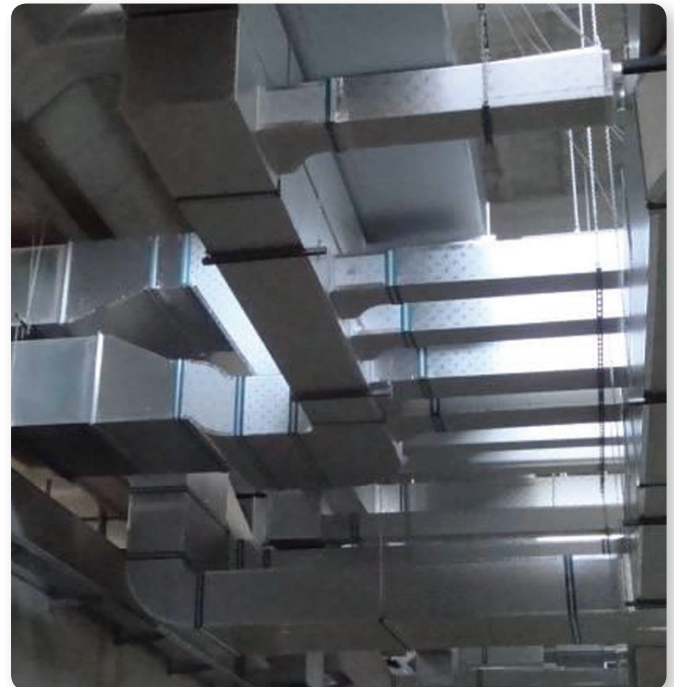
- Rigid polyurethane foam, closed cells, density 48 kg/m³, without CFC-HCFC-HFC
- Panel thickness : 21, 30, 50 mm
- Internal facing :
Aluminum foil, treated with silver-ions based ANTIMICROBIAL compound
- External facing :
Aluminum foil, treated with 3 g/m² of transparent varnish as protection against weather agents and UV rays,

Application

Realisation of air distribution systems (Supply, Return, Exhaust, Fresh air), especially for Hospitals, Operating Suites, Pharmaceutical Industries, Food Industries and Clean Rooms.

Range

REF.	Typical Application	Panel	Aluminum Foil Thickness	
			INT	EXT
ALP100RF	Indoor	21 mm	80 µm	60 µm
ALP200RF	Plant Rooms	21 mm	80 µm	200 µm
ALP230RF	Outdoor	30 mm	80 µm	200 µm
ALP550/500	Heavy Duty	50 mm	0,5 mm	0,5mm



Specifications of Use

Temperature (°C)	Air Velocity (m/sec)	Pressure (Pascal)
-35 / +110	30	2000*

Duct Sealing Class

Pressure (Pascal)	Class
-750	C
400	C
1000	B
2000	B

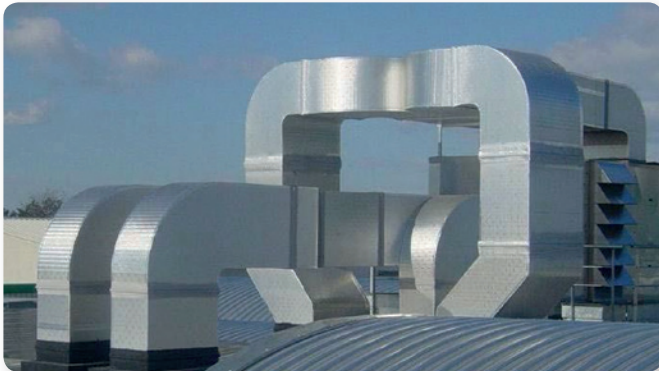
Performances reached with a "standard" fabrication. Better Sealing Class can be reached - Please contact ALP.

Technical Characteristics

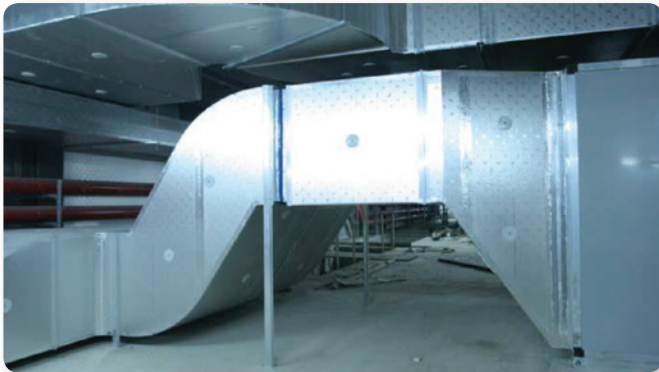
- Panels Stiffness: $EI > 350.000 \text{ N}\cdot\text{mm}$
- Thermal Conductivity:
(new) $\lambda 0,0213 \text{ W}/(\text{m}\cdot\text{K})$
(aged) $\lambda 0,0216 \text{ W}/(\text{m}\cdot\text{K})$
- Thermal Resistance & Thickness:
 $R 0,986 \text{ m}^2\cdot\text{K}/\text{W}$
- Water Vapor Transmission: Z
 $Z \geq 2000 (\text{m}^2 \text{ h Pa})/\text{mg}$
- Nominal Pressure*:
Positive: 2.000 Pascal
Negative: -2.000 Pascal
(* Higher Pressures are possible - Please contact ALP.

ALP Systems Photo Gallery Aluminum Pre-insulated HVAC Air Ducts

Outdoor Installation



Machine Rooms



Indoor Installation



Indoor Installation

