

ALP SYSTEM

TECHNICAL CHARACTERISTICS & PERFORMANCES

Resume Table

Characteristic	Standard	Result
<u>Mechanical</u>		
01- Panel Stiffness / Rigidity	EN 13403	353.000 N·mm
02- Resistance to high pressure	EN 13403	+2000 Pa in Normal operation +5000 Pa in 1 h Over-pressure
03- Resistance to positive/negative pressure	ALP	+3800 Pa / -4200 Pa No breakages or loss of functionality
04- Air leakage (Positive/Negative Pressure)	EN 1507	Class "C" and "B"
05- Air pressure drop inside ductwork	Istituto Giordano	Negligible
06- Resistance to high temperature	ALP	110 °C - continuous
07- Resistance to salty atmosphere	ISO 9227	No corrosive attack
08- Sound reduction index	EN-ISO 140-3	$R_w = 16$ dB
09- Linear noise reduction	EN-ISO 7235:2005 EN-ISO 3741:2001	Refer to Results Table
<u>Insulation</u>		
10- Thermal Conductivity	EN 12667 EN 13165	- New panel 0,0213 W/(m·K) - Aged (20 years) 0,0226 W/(m·K)
10- Thermal Resistance	EN 12667	0,986 m ² ·K/W
11- Water vapour transmission	EN 12086	Resistance "Z" = ≥ 2000
<u>Fire Safety</u>		
12- Flammability (British Standards)	BS 476, Part 6 & Part 7	Class 0
<u>Health & Environment</u>		
13- Microbial growth	EN 13403	Resistant to fungine attack
14- Overall migration (Food Industry)	EN 1186-1 and ITA MOH Decree 174/2004	Less than 6,9 mg/dm ²

