



# CLIMAVER A2 deco

## CLIMAVER Self-supporting Ducts

High-density, ISOVER rigid glass wool panel; the external facing is covered with a decorative fibreglass fabric and an aluminium foil which acts as a vapour barrier, and the internal facing with a black reinforced glass neto fabric with high mechanical resistance.

Given its superior acoustic and thermal insulation, **CLIMAVER A2 deco**, it is the ideal solution in order to meet the highest reaction to fire requirements when installing. Networks of self-supporting air-distribution ducts in thermal installations without false ceilings, within air-conditioning systems in buildings.

### Technical Properties

Symbol	Parameter	Icon	Units	Value	Standard
$\lambda_D$	Declared thermal conductivity as a function of temperature		W/m·K (°C)	0,032 (10)	EN 12667 EN 12939
				0,033 (20)	
				0,036 (40)	
				0,038 (60)	
—	Reaction to fire		Euroclase	A2-s1, d0	EN 13501-1 EN 15715
MU	Mineral wool: water-vapour diffusion resistance, $\mu$		—	1	EN 12086
Z	Facing: water-vapour diffusion resistance		$m^2 \cdot h \cdot Pa / mg$	> 140	EN 12086
MV	The vapour diffusion-equivalent air layer thickness, $S_d$		m	100	EN 12086
DS	Dimensional stability, $\Delta\epsilon$		%	< 1	EN 1604
—	Airtightness		Class	D	UNE-EN 13403 EN 12237
—	Pressure resistance		Pa	800	UNE-EN 13403

Working conditions: Air speed up to 18 m/s and circulating air temperature up to 90 °C.

Thickness d (mm)	Weighted acoustic absorption coefficient, $AW, \alpha_{10}$	Acoustic absorption class	Designation code
EN 823	EN ISO 354 EN ISO 11654	UNE EN ISO 11654	EN 14303
25	0,85 <sup>(1)</sup>	B	MW-EN 14303-T5-MV1

Acoustic trials with plenum: CTA 048/11/REV-5.

<sup>(1)</sup> Weighted acoustic absorption coefficient  $AW, \alpha_{10}$  without plenum 0,55. CTA 140053/REV-7.

Thickness d, mm	Frequency (Hz)					
	125	250	500	1000	2000	4000
Practical acoustic absorption coefficient, $\alpha_p$ EN ISO 354 / EN ISO 11654						
25	0,35	0,65	0,75	0,85	0,90	0,90
Section, S mm <sup>2</sup>	Acoustic attenuation, in a straight duct, $\Delta L$ (DB/m)*					
	200x200	300x400	400x500	400x700	500x1000	
200x200	4,83	11,49	14,04	16,73	18,12	18,12
300x400	2,82	6,70	8,19	9,76	10,57	10,57
400x500	2,17	5,17	6,32	7,53	8,15	8,15
400x700	1,90	4,51	5,51	6,57	7,12	7,12
500x1000	1,45	3,45	4,21	5,02	5,44	5,44

\*Estimated by the formula:  $\Delta L = 1,05 \cdot \alpha_p^{1,4} \cdot \frac{P}{S}$ , (P = perimeter)

for the sound power of a ventilator with a 20,000 m<sup>3</sup>/h flow, load loss 15 mm ca.

### Presentation



Thickness d (mm)	Length l (m)	Width b (m)	m <sup>2</sup> /package	m <sup>2</sup> /pallet	m <sup>2</sup> /truck load
25	3,00	1,19	24,99	149,94*	2.399

\*Possibility to supply half pallets  
Special colours available on request..

### Advantages

- CE marking as ventilation and air conditioning system (ETA 20/0122 based on EAD 360001-00-0803).
- Decorative aspect, rigid structure, vapour barrier and maximum protection in case of fire, without the need of additional exterior painting.
- Highest airtightness class.
- Optimal acoustic ambient quality and comfort class.
- Resistant to aggressive cleaning methods; UNE 100012.
- Duct union continuity. Exclusive male/female leaning shiplaps of the panels.
- No proliferation of mould and bacteria. Trials according to EN 13403
- Sustainable product. Recycled material > 50% 100% recyclable.
- Available in a wide range of colours.



### Certification



### Installation Guide

Consult the **CLIMAVER**. Ducts Assembly Manual  
Additional information available at: [www.isover.es](http://www.isover.es)