



# CLIMAVER A2 neto

## CLIMAVER Self-Supporting Ducts

High-density, ISOVER rigid glass wool panel; the external facing is covered with kraft paper and glass mesh reinforced aluminium foil, which acts as a vapour barrier, and the internal facing with a black reinforced glass neto fabric with high mechanical resistance. Because of its excellent acoustic properties and thermal behaviour, **CLIMAVER A2 neto** is the best solution, capable of meeting the highest fire-safety requirements, when installing:

### Technical Properties

Symbol	Parameter	Icon	Units	Value	Standard
$\lambda_D$	Thermal conductivity declared 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		Euroclass	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, $AW, \alpha_w$	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  $AW, \alpha_w$  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	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	21,42	299,88	2.399

### Advantages

- Easy cut, without risk of breaking during handling.
- Maximum protection in case of fire.
- Highest airtightness class.
- Optimal acoustic ambient quality.
- Resistant to the most aggressive cleaning methods; UNE 100012.
- Unique guiding mark lines for SDM (Straight-Duct Method) cuts.
- Duct union continuity, thanks to the exclusive male/female leaning shiplaps of the panels.
- No proliferation of mould and bacteria; EN 13403.
- Sustainable product. 100% recyclable. Recycled material > 50%



### Certification



### Installation Guide

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