



## CLIMAVER® Self-Supporting Ducts

A rigid panel made of high density **ISOVER** glass wool covered on the outer surface with a matte aluminium sheet reinforced with kraft paper and glass mesh which acts as a vapour barrier. On its inner surface, it is covered with a new glass-reinforced net fabric which is black in colour and has a high mechanical resistance.

Due to its excellent acoustic and good thermal performance, **CLIMAVER® A2 neto** is the ideal solution. It is capable of satisfying the most stringent requirements in terms of reaction to fire, for the installation of self-supporting duct systems to distribute air in exposed thermal installations without a false ceiling for the air-conditioning and ventilation of buildings.



### FIRE RESISTANCE.

Maximum protection in case of fire.



### AIR TIGHTNESS.

Class ATC1 according to new RITE regulation.



### SOUND INSULATION.

Optimal acoustic ambient quality.



### EASY HANDLING.

Easy cut, without risk of breaking during handling. Unique guiding mark lines for SDM cuts. Duct union continuity, thanks to the exclusive male/female leaning shiplaps of the panels.



### RECYCLED GLASS.

Sustainable product. 100% recyclable. Recycled material 55%.



CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES				STANDARD
Thermal conductivity	T	[°C]	10	20	40	60	EN 12667 EN 12939
	$\lambda$	[W/(m·K)]	0.032	0.033	0.036	0.038	

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES						STANDARD		
Practical acoustic absorption coefficient, $\alpha_p$	-	Hz	$\alpha_w$	125	250	500	1000	2000	4000	-	EN ISO 354 EN ISO 11654
	$\alpha_p$	-	0,85 <sup>(1)</sup>	0.35	0.65	0.75	0.85	0.90	25		
Acoustic attenuation, in a straight duct, $\Delta L$ (DB/m)*	Section, S mm <sub>2</sub>	200 x 200	-	4.83	11.49	14.04	16.73	18.12	-		
		300 x 400		2.82	6.70	8.19	9.76	10.57			
		400 x 500		2.17	5.17	6.32	7.53	8.15			
		400 x 700		1.90	4.51	5.51	6.57	7.12			
		500 x 1000		1.45	3.45	4.21	5.02	5.44			

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.

\* Estimated by the formula:  $\Delta L = 1.05 \cdot \alpha_p \cdot 1.4 \cdot P/S$ , (P = perimeter) for the sound power of a ventilator with a 20,000 m<sup>3</sup>/h flow, load loss 15 mm ca.

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES	STANDARD
Reaction to fire	-	Euroclass	A2-s1, d0	EN 13501-1 EN 15715
Resistance to the diffusion of water steam of facing	Z	m <sup>2</sup> ·h·P	> 140	EN 12086
Thickness of the air layer equivalent to water vapor diffusion, Sd	MU	m	100	EN 12086
Airtightness	-	Class	D Maximum class of watertightness (class ATC1) according to the new RITE regulation update.	UNE-EN 13403 EN 12237
Resistance to pressure	-	Pa	800	UNE-EN 13403
Dimensional stability, $\Delta\epsilon$	-	%	<1	EN 1604
Characteristics	-	-	Resistant to different cleaning methods. No proliferation of mould and bacteria.	-
Working conditions	-	-	Air speed up to 18 m/s and circulating air temperature up to 90°C.	-

### DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION

Thickness d (mm)	Length l (m)	Width b (m)	m <sup>2</sup> /pack	m <sup>2</sup> /pallet	m <sup>2</sup> /truck	Designation code
25	3.00	1.19	21.42	299.88	2399	MW-EN 14303-T5-MV1



### www.isover.es

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