



## CLIMAVER® Self-Supporting Ducts

**CLIMAVER®**  
360



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 matte aluminium sheet reinforced with kraft paper. The male edge is flanged on the inside with matte aluminium. It incorporates a glass veil on each side of the panel to provide increased rigidity.

Due to its excellent acoustic performance and good thermal performance, **CLIMAVER® Plus R** is the appropriate choice for the installation of self-supporting duct systems for the distribution of air in thermal installations for the air-conditioning and ventilation of buildings.



### AIRTIGHTNESS

Class ATC1 according to new RITE regulation.



### SOUND INSULATION

Some improvement in the acoustic ambient quality.



### EASY HANDLING

Unique guiding mark lines for SDM cuts. Duct union continuity. Exclusive male/female leaning shiplaps of the panels and flanging of the inside male edge.



### 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						THICKNESS [mm]	STANDARD	
Practical acoustic absorption coefficient, $\alpha_p$	-	Hz	$\alpha_w$	125	250	500	1000	2000	4000	-	EN ISO 354 EN ISO 11654
	$\alpha_p$	-	0,35	0,20			0,60	0,50	0,40	25	
Acoustic attenuation, in a straight duct, $\Delta L$ (DB/m)*	Section, S mm <sup>2</sup>	200 x 200	-	2,21			10,27	7,96	5,82	-	
		300 x 400	-	1,29			5,99	4,64	3,40		
		400 x 500	-	0,99			4,62	3,58	2,62		
		400 x 700	-	0,87			4,04	3,13	2,29		
		500 x 1000	-	0,66			3,08	2,39	1,75		

Acoustic trials with plenum: AC3-D1-99 I.

\* 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	B-s1, d0		EN 13501-1 EN 15715
Resistance to the diffusion of water steam of mineral wool, $\mu$	MV	m	1		EN 12086
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 ATCI) 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	-	-	Exceptional duct rigidity. Resistant to aggressive cleaning methods. Easy to clean. Smooth finish interior surface. 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	24.99	299.88	2399	MW-EN 14303-T5-MV1



[www.isover.es](http://www.isover.es)

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