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 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.

AIR TIGHTNESS.
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%.

CLIMAVER® Plus R

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

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES								STANDARD
Practical acoustic absorption coefficient, α_p	-	Hz	α_w	125	250	500	1000	2000	4000	-	EN ISO 354 EN ISO 11654
	α_p	-	0,35	0,20			0,60	0,50	0,40	25	
Acoustic attenuation, in a straight duct, ΔL (DB/m)*	Section, S mm_2	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: ΔL = 1.05 · αp1.4 · P/S, (P = perimeter) for the sound power of a ventilator with a 20,000 m³/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, μ	MV	m	1	EN 12086
Resistance to the diffusion of water steam of facing	Z	m^2·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, Δε	-	%	<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^2/pack	m^2/pallet	m^2/truck	Designation code
25	3.00	1.19	24.99	299.88	2399	MW-EN 14303-T5-MV1

www.isover.es

This data sheet was completed on the date indicated on the right-hand side and was done with ISOVER's knowledge and experience at that time. However, it does not offer any legal guarantee, unless it has been expressly agreed. Bearing in mind that our knowledge and developments of building solutions and products are continuously evolving, ensure that when you use this data sheet, it is the latest version. The description of the product applications does not take into account the special circumstances that may arise for a specific case. Please check that this product is the appropriate one for the application you are considering. For more detailed information, contact our network of ISOVER branches.

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APR-2024

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