



# CLIMAVER STAR

CLIMAVER self-supporting ducts for exterior use

## Description

ISOVER high-density glass wool panel for exterior use A non-absorbent panel, faced externally with plasticised embossed aluminium providing a completely impermeable water vapour barrier and ultra-violet protection, and attached to the stonewool panel through a system that is resistant to exposed environments. The interior is lined with a black reinforced Neto glass fibre weave which offers great strength.

## Applications

Due to its excellent thermal and acoustic performance, **CLIMAVER STAR** is the ideal solution when installing:

- Air distribution self-supporting duct systems in heating and cooling installations on building exteriors.

## 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) 0.033 (20) 0.036 (40) 0.039 (60)	EN 12667 EN 12939
	Reaction to fire		Euroclasse	B-s1, d0	EN 13501-1 EN 15715
MU	Mineral wool: water-vapour diffusion resistance, $\mu$		-	1	EN 12086
Z	Facing: water-vapour diffusion resistance		$m^2 \cdot h \cdot Pa / mg$	150	EN 12086
MV	The vapour diffusion-equivalent air layer thickness, Sd		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
40	0,90 <sup>(1)</sup>	A	MW-EN 14303-T5-MV1

Acoustic trials with plenum: CTA 140003/REV.

<sup>(1)</sup> Weighted acoustic absorption coefficient  $AW, \alpha_w$  without plenum 0,70 (40mm thickness) CTA 140053/REV-2 and  $\alpha_w$  without plenum 0,90 (50mm thickness) CTA 140045/REV-2.

	Frequency (Hz)					
	125	250	500	1000	2000	4000
Thickness d, mm	Practical acoustic absorption coefficient, $\alpha_p$ EN ISO 354 / EN ISO 11654					
40	0.40	0.70	0.85	0.85	0.90	1.00
Section, S mm <sup>2</sup>	Acoustic attenuation on a straight section $\Delta L$ (DB/m)*					
200x200	5.82	12.75	16.73	16.73	18.12	21.00
300x400	3.40	7.43	9.76	9.76	10.57	12.25
400x700	2.29	5.01	6.57	6.57	7.12	8.25

\*Estimate based on the formula:  $\Delta L = 1,05 \cdot \alpha_p^{1,4} \cdot \frac{P}{S}$ , (P=perimetro)

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

## Presentation



Thickness d (mm)	Length l (m)	Width b (m)	m <sup>2</sup> /pallet	m <sup>2</sup> /truck
40	3.00	1.21	65.34	1.568,16

## Advantages

- Resistance to the elements Climatic cycle ageing testing based on the ISO 9142 standard, section D3 - passed.
- Ideal for direct application onto building exteriors.
- High thermal performance.
- Maximum watertightness level.
- Optimal acoustic environment quality.
- Resistant to the most aggressive cleaning methods, UNE 100012.
- Fast, simple installation. Maximum on-site efficiency.
- Join continuity thanks to the exclusive panel tongue and groove system.
- No proliferation of mould or bacteria, EN 13403.
- Sustainable product. 100% recyclable. Recycled material > 50%.



## Certificates



## Installation Guide

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

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