

# **CLIMAVER A2 APTA** CLIMAVER Self-Supporting Ducts

## Description

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.

### **Applications**

Given its superior thermal and acoustic insulation, *CLIMAVER A2 APTA* is the ideal solution in order to meet the highest reaction to fire requirements when installing:

• Networks of self-supporting air-distribution ducts in thermal installations within air-conditioning systems in buildings.

# **Technical Properties**

Symbol	Parameter	lcon	Units	Value	Standard
λ <sub>D</sub>	Declared thermal conductivity 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	3	Euroclass	A2-s1, d0	EN 13501-1 EN 15715
MU	Mineral wool: water- vapour diffusion resistance, µ		-	1	EN 12086
Z	Facing: water vapour diffusion resistance		m²•h•Pa/mg	130	EN 12086
MV	The vapour diffusion- equivalent air layer thickness, Sd		m	100	EN 12086
DS	Dimensional stability, $\Delta\epsilon$		%	<1	EN 1604
	Airtightness	$\square$	Class	D	UNE-EN 13403 EN 12237
	Pressure resistance	Ø	Ра	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, $\alpha_{\omega}$	Acoustic absorption class		Designation code	
EN 823	EN ISO 354 EN ISO 11654	UNE EN ISO 11654		EN 14303	
40	0.90	А		MW-EN 14303-T5-MV1	

Acoustic trials with plenum: CTA 140003/REV.

<sup>(1)</sup>Weighted acoustic absorption coefficient AW,  $\alpha_{_{0}}$  without plenum 0.70 (40 mm thickness) CTA 140053/REV-2 and  $\alpha_{_{0}}$  without plenum 0.90 (50 mm thickness) CTA 140045/REV-2.

	Frequency (Hz)						
	125	250	500	1000	2000	4000	
Thickness d, mm	Practical acoustic absorption coefficient, $\alpha_{\rm p}$ 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, in a straight duct, $\Delta L \mbox{(DB/m)}^*$						
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	
D.							

\*Estimated by the formula:  $\Delta L = 1.05 \cdot \alpha_p^{14} \cdot \frac{P}{2}$ , (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

No. Contraction of the second s	Thickness d (mm)	Length I (m)	Width b (m)	m²/ package	m²/ pallet	m²/truck load
Barris . Barris	40*	3.00	1.21	18.15	199.70	1.597
	*Also available in 50mm upon request.					

# Advantages

- · High thermal performance.
- 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.
- · Easy and fast installation. Maximum on-site efficiency.
- 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

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