



CLIMAVER® Self-Supporting Ducts



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.

Given its superior thermal and acoustic insulation, **CLIMAVER® APTA** is a suitable solution when installing: · Networks of self-supporting air-distribution ducts in thermal installations within air-conditioning systems in buildings.



THERMAL INSULATION

High thermal performance.



AIRTIGHTNESS

Highest airtightness class.



SOUND INSULATION

Optimal acoustic ambient quality and comfort class.



EASY HANDLING

Unique guiding mark lines for SDM cuts. Duct union continuity, thanks to the exclusive male/female leaning shiplaps of the panels.



FAST INSTALLATION

Easy and fast installation. Maximum on-site efficiency.



RECYCLED GLASS

Sustainable product with a composition of more than 50% recycled material. 100% recyclable material.



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	0.039	

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES							THICKNESS [mm]	STANDARD
Practical acoustic absorption coefficient, α_p	-	Hz	α_{pw}	125	250	500	1000	2000	4000	-	EN ISO 354 EN ISO 11654
	α_p	-	0.90 ⁽¹⁾	0.40	0.70	0.85	0.90	1.00	40		
Acoustic attenuation, in a straight duct, ΔL (DB/m)*	Section, S mm ²	200 x 200	-	5.82	12.75	16.73	18.12	21.00	-		
		300 x 400	-	3.40	7.43	9.76	10.57	12.25			
		400 x 700	-	2.29	5.01	6.57	7.12	8.25			

Acoustic trials with plenum: CTA 140003/REV.

⁽¹⁾ Weighted acoustic absorption coefficient AW, α_w without plenum 0,70 (40mm thickness) CTA 140053/REV-2 y α_w without plenum 0,90 (50mm thickness) CTA 140045/REV-2.

* Estimated by the formula: $\Delta L = 1.05 \cdot \alpha_{p1.4} \cdot P/S$, (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				UNE-EN 13403 EN 12237
Resistance to pressure	-	Pa	800				UNE-EN 13403
Dimensional stability, $\Delta\epsilon$	-	%	<1				EN 1604
Characteristics	-	-	Resistant to the most aggressive 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
40	3.00	1.21	18.15	199.65	1597	MW-EN 14303-T5-MV1

* Available in 50mm on request.



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