ISOVER
SAINT-GOBAIN

CLIMAVER® APTA

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.

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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								STANDARD
Practical acoustic absorption coefficient, α_p	-	Hz	αp_w	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_ω without plenum 0,70 (40mm thickness) CTA 140053/REV-2 y α_ω without plenum 0,90 (50mm thickness) CTA 140045/REV-2.
* Estimated by the formula: ΔL = 1.05 · αp1.4 · P/S, (P = perimeter) for the sound power of a ventilator with a 20,000 m^3/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	[ERROR READING XHTML FRAGMENT]	UNE-EN 13403 EN 12237
Resistance to pressure	-	Pa	800	UNE-EN 13403
Dimensional stability, Δε	-	%	<1	EN 1604
Characteristics	-	-	[ERROR READING XHTML FRAGMENT]	-
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.

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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