CLIMAVER A2 neto

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

Because of its excellent acoustic properties and thermal behaviour, ***CLIMAVER A2 neto*** is the best solution, capable of meeting the highest fire-safety requirements, when installing:

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

Technical Properties

Symbol	Parameter	Icon	Units	Value	Standard
λ_D	Thermal conductivity declared as a function of temperature		W/m·K (°C)	0.032 (10) 0.033 (20) 0.036 (40) 0.038 (60)	EN 12667 EN 12939
	Reaction to fire		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, Δε		%	<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, α_w	Acoustic absorption class		Designation code
EN 823	EN ISO 354 EN ISO 11654	UNE EN ISO 11654		EN 14303
25	0.85(1)	B		MW-EN 14303-T5-MV1

Acoustic trials with plenum: CTA 048/11/REV-5.
(1) Weighted acoustic absorption coefficient AW,α_w without plenum 0.55. CTA 140053/REV-7.

	Frequency (Hz)					
	125	250	500	1000	2000	4000
Thickness d, mm	Practical acoustic absorption coefficient, α_p EN ISO 354 / EN ISO 11654					
25	0.35	0.65	0.75	0.85	0.90	0.90
Section, S mm²	Acoustic attenuation, in a straight duct, ΔL (DB/m)*					
200x200	4.83	11.49	14.04	16.73	18.12	18.12
300x400	2.82	6.70	8.19	9.76	10.57	10.57
400x500	2.17	5.17	6.32	7.53	8.15	8.15
400x700	1.90	4.51	5.51	6.57	7.12	7.12
500x1000	1.45	3.45	4.21	5.02	5.44	5.44

*Estimated by the formula: $\Delta L = 1{,}05 \cdot \alpha_p^{1.4} \cdot \frac{P}{S}$, (P = perimeter)
for the sound power of a ventilator with a 20,000 m³/h flow, load loss 15 mm ca.

Presentation

Thickness d (mm)	Length l (m)	Width b (m)	m²/ package	m²/ pallet	m²/truck load
25	3.00	1.19	24.99	299.88	2.399

Advantages

· Easy cut, without risk of breaking during handling.
· Maximum protection in case of fire.
· 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.
· 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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