



CLIMAVER NETO *CLIMAVER neto*

Heating and air-conditioning. Climaver Ducts.

DESCRIPTION

High-density glass wool panel with a outer lining of Aluminium reinforced with a glass fibre mesh , kraft paper and a glass mesh to ensure rigidity and inner lining with high mechanical resistance woven Black glass cloth "Neto".

APPLICATION

Self-supporting ducts for the distribution of air in heating and cooling systems manufactured using glass wool panel, designed to offer acoustic attenuation and facilitate cleaning.

TECHNICAL PERFORMANCES

Technical characteristics in compliance with applicable regulations

This section features all the technical characteristics required for reference standards: EN 14303, EN 13403, EN ISO 354, RITE.

Characteristics	Units		Values			
Thermal Conductivity (λ_p)	10° C	W/(m·K)	0,032			
	20° C		0,033			
	40° C		0,036			
	60° C		0,038			
Reaction to Fire	Euroclass		B-s1, d0			
Water vapour diffusion resistance	Z (m ² · H · Pa/mg)		130			
	S _d (m)		100			
Airtightness	---		Class D			
Resistance to pressure	Pa		800			
Acoustic absorption coefficient (α)	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	α_w
	0,35	0,65	0,75	0,85	0,90	
Load loss	The calculation method established for load loss in CLIMAVER ducts is used, obtained from the ASHRAE Friction Chart for cylindrical galvanised sheet metal ducts, with the equivalent diameter correlation (rectangular ducts).					

Acoustic Test CTA 048/11/REV-5.

PRESENTATION

Dimensions (m)		Thickness (mm)	m ² /package	m ² /pallet	m ² /truck
Length	Width				
3,00	1,19	25	24,99	299,88	2399

ACOUSTIC ATTENUATION

Acoustic attenuation(*) on a Climaver Neto straight section (dB/m)

Section (mm)	Frequency (Hz)				
	125	250	500	1000	2000
200 x 200	4,83	11,49	14,04	16,73	18,12
300 x 400	2,82	6,70	8,19	9,76	10,57
400 x 500	2,17	5,17	6,32	7,53	8,15
400 x 700	1,90	4,51	5,51	6,57	7,12
500 x 1000	1,45	3,45	4,21	5,02	5,44

(*) Acoustic attenuation (ΔL , in dB/m), estimated via:

$$\Delta L = 1.05 \cdot \alpha \cdot \frac{P}{S} \quad (\alpha: \text{sabine absorption coefficient, P and S: perimeter and duct section}).$$

For the sound power of a ventilator with a 20,000 m³/h flow, load loss 15 mm.c.a.

ADVANTAGES:

- Highest acoustic absorption for 25 mm thickness panels.
- The interior Neto facing has high mechanical resistance, meaning that the duct can be cleaned using the most aggressive methods, such as, for example, brushing (do the coin test).
- Marking of MTR guide lines: points of reference for the construction of duct layouts using the Straight Duct Method, or MTR.
- Mechanical strength: rules out duct damage and detachment.
- Textile frame: total sound wave permeability and absence of perforations susceptible to the accumulation of dirt.
- Male flanging treatment.

WORKING CONDITIONS

Application as per EN 13403

Maximum air speed : 18 m/s

Maximum temperatura of circulating air: 90°C

CERTIFICATION AND USAGE



For information regarding storage, transport and installation, please consult: www.isover.es/utilizacion

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