

VF
DOP 5

MW - EN 13162 - T1 - WS

RI
SE
Research Institutes
of Sweden



TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.

DEFINITION:

Flexible rolls of uniform thickness made of stone wool fibres bonded with synthetic binder, faced with reinforced fiberglass veil.

APPLICATIONS:

Mats specially designed for the use in vertical position, as (continuous) thermal and acoustic insulation, on facades of industrial buildings and ventilated facades.

BENEFITS:

- Easy and quick application;
- Easy adaptation to structural elements;
- Continuous insulation;
- Acoustic insulation improvement;
- High insulation performances;
- Fire safety;
- Good water behaviour;
- Inert product respecting the environment (CFC and HCFC free).

PRESENTATION:

Rolls. Options:

THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822]
60	8000×1200
80	6000×1200
100	4500×1200

Tolerances:

THICKNESS (CLASS T1): -5 % OR -5 mm ^{a)} TO + Excess permitted

LENGTH: ±2 %

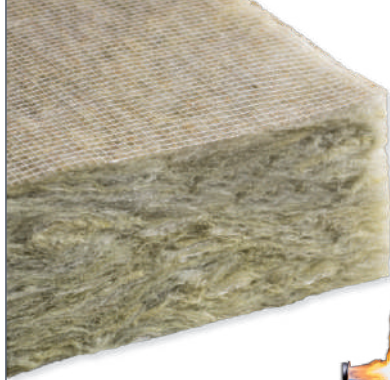
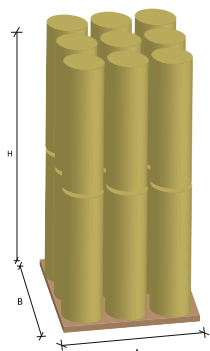
WIDTH: ±1.5 %

^{a)} Is valid the greatest numerical tolerance

PACKAGING:

Rolls packed in retractile plastic.

Geometry (A×B×H):



Protection against fire



Thermal insulation



Acoustical insulation

PHYSICAL PROPERTIES OF MATERIALS

NOMINAL DENSITY

25 / 30 kg/m³

THERMAL RESISTANCE, R_D

EN 12667
EN 12939

THICKNESS (mm)	60	80	100
R_D (m ² .K/W)	1.60	2.15	2.70

THERMAL CONDUCTIVITY, λ_D

EN 12667
EN 12939

Declared value: $\lambda_D = 0.037$ W/m.K

FIRE REACTION

Incombustible - **EUROCLASS A1**

EN 13501-1
ISO 1182

WATER ABSORPTION

$WS \leq 1.00$ kg/m²

NP EN 1609

WATER VAPOUR DIFFUSION FACTOR

$\mu = 1.30$

EN 12086



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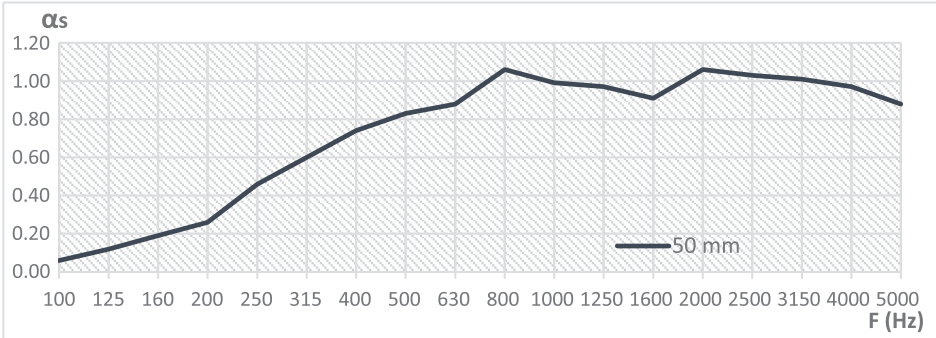
www.termolan.pt/en | www.rocterm.com | termolan@termolan.pt

PHYSICAL PROPERTIES OF MATERIALS

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s	0.06	0.12	0.19	0.26	0.46	0.60	0.74	0.83	0.88
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s	1.06	0.99	0.97	0.91	1.06	1.03	1.01	0.97	0.88



EQUIVALENT ABSORPTION COEFFICIENT, α_w

EN ISO 11654

$\alpha_w = 0.54$ (MH) CLASS D

OTHER PROPERTIES

DIMENSIONAL STABILITY, $\Delta\epsilon$ [NP EN 1604]	23 °C / 90% HR: the relative deviation (length and width does not exceed 0.1%
AIR FLOW RESISTIVITY [EN 29053]	> 5 kPa.s/m ²

PLACING DETAILS

- VF mat is fast to apply, practical and effective;
- The mats are rolled out vertically uniformly and fixed to the upper part of the facade;
- Each roll supports its own weight;
- The other anchorages to be used should be (± 1 per m²) for the product stability and to subsequently be applied the steel facade;
- In most cases, a single roll is enough to isolate the entire height of the facade.

