

LF 110+

DOP 104

MW - EN 13162 - T5 - CS(10)30 - WS



TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.

DEFINITION:

Rigid slabs of uniform thickness made of stone wool fibres bonded with synthetic binder, without facing.

APPLICATIONS:

Slabs specially designed for floor applications as thermal and acoustical insulation and reduction of impact noise.

BENEFITS:

- Easy and quick application;
- Compatible with heating floors solutions;
- Very good thermal insulation;
- Excellent acoustical insulation and impact noise reduction;
- Very good mechanical performance;
- High insulation performances;
- Fire safety;
- Excellent water behaviour;
- Inert product respecting the environment (CFC and HCFC free).

PRESENTATION:

Slabs packed in packages. Options:

THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822]
60 to 160	1200×600
170 to 240	1200×1200 1200×1000

Tolerances:

THICKNESS (CLASS T5): -1 % OR -1 mm ^{a)} TO +3 mm

LENGTH: ±2 %

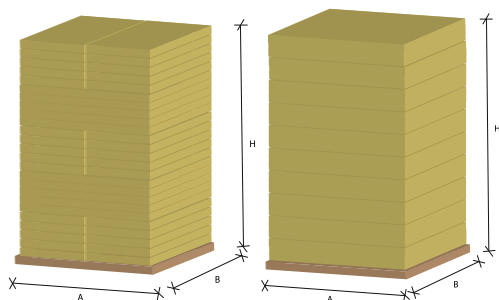
WIDTH: ±1.5 %

^{a)} Is valid the greatest numerical tolerance

PACKAGING:

Packages packed in retractile plastic.

Geometry (A×B×H):



PHYSICAL PROPERTIES OF MATERIALS

NOMINAL DENSITY

110 kg/m³

THERMAL RESISTANCE, R_D

EN 12667
EN 12939

THICKNESS (mm)	60	70	80	90	100	110	120
R_D (m ² .K/W)	1.65	1.90	2.20	2.50	2.75	3.05	3.30
THICKNESS (mm)	130	140	150	160	170	180	190
R_D (m ² .K/W)	3.60	3.85	4.15	4.40	4.70	5.00	5.25
THICKNESS (mm)	200	210	220	230	240		
R_D (m ² .K/W)	5.55	5.80	6.10	6.35	6.65		

THERMAL CONDUCTIVITY, λ_D

EN 12667
EN 12939

Declared value: $\lambda_D = 0.036 \text{ W/m.K}$

FIRE REACTION

EN 13501-1
ISO 1182

Incombustible - **EUROCLASS A1**

WATER ABSORPTION

NP EN 1609

$WS \leq 1.00 \text{ kg/m}^2$

WATER VAPOUR DIFFUSION FACTOR

EN 12086

$\mu = 1.30$



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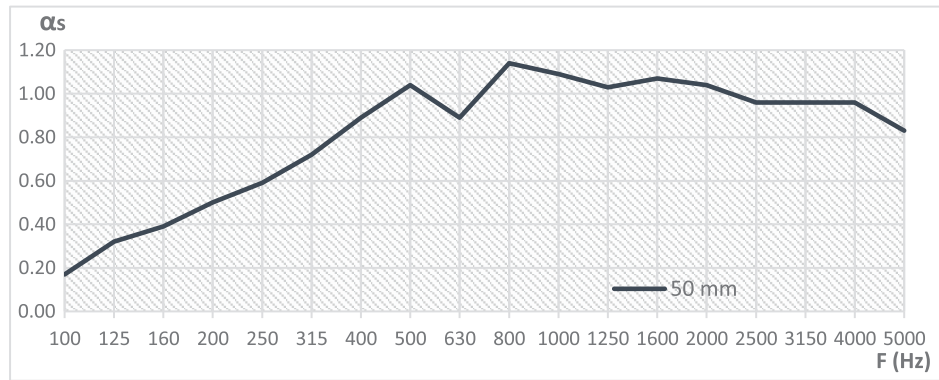
www.termolan.pt/en | www.rocterm.com | termolan@termolan.pt

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		0.17	0.32	0.39	0.50	0.59	0.72	0.89	1.04	0.89
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
α_s		1.14	1.09	1.03	1.07	1.04	0.96	0.96	0.96	0.83



EQUIVALENT ABSORPTION COEFFICIENT, α_w

EN ISO 11654

$\alpha_w = 0.85$ (MH) CLASS B

OTHER PROPERTIES

SQUARENESS [NP EN 824]	Deviation lenght / width < 5mm/m
FLATNESS [NP EN 825]	Deviation ≤ 6 mm
DIMENSIONAL STABILITY, $\Delta\epsilon$ [NP EN 1604]	23 °C / 90% HR: the relative deviation (lenght and width) don't exceed 0.0%
COMPRESSIVE STRENGHT, σ_{10} [NP EN 826]	≥ 30 kPa

ACOUSTICAL INSULATION: IMPACT NOISE TRANSMISSION

- To prevent the spread of these impact noises and the receipt by air should be done an elastic cut between the soil and the structural elements;
- The best solution is to make a floating floor on stone wool slabs;
- It is essential to be avoided the floating floor contact with the structural support elements.

