

RECoat +

DOP 103

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



TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.

DEFINITION:

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

APPLICATIONS:

Incombustible slabs specially designed for external thermal and acoustic insulation composite systems (ETICS).

BENEFITS:

- Easy and quick application;
- High insulation performances;
- Excellent mechanical behaviour:
 - To accidental mechanical actions;
 - Immune to contractions and expansions;
 - High tensile strength;
- Fire safety;
- Excellent water behaviour;
- Decreased exposure to vandalism acts;
- Inert product respecting the environment (CFC and HCFC free).

PRESENTATION:

Slabs. Options of presentation:

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

Tolerances:

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

LENGTH: ±2 %

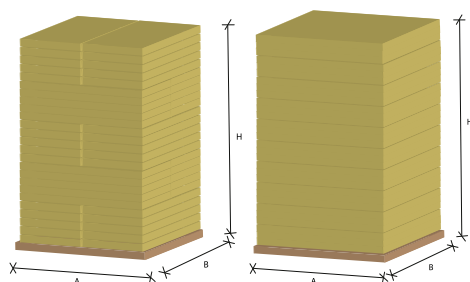
WIDTH: ±1.5 %

^{a)} Is valid the greatest numerical tolerance

PACKAGING:

Packages packed in retractile plastic.

Geometry (A×B×H):



Protection against fire



Thermal insulation



Acoustical insulation

PHYSICAL PROPERTIES OF MATERIALS

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: $\lambda_D = 0.036$ W/m.K

FIRE REACTION

EN 13501-1
ISO 1182

Incombustible - **EUROCLASS A1**

WATER ABSORPTION

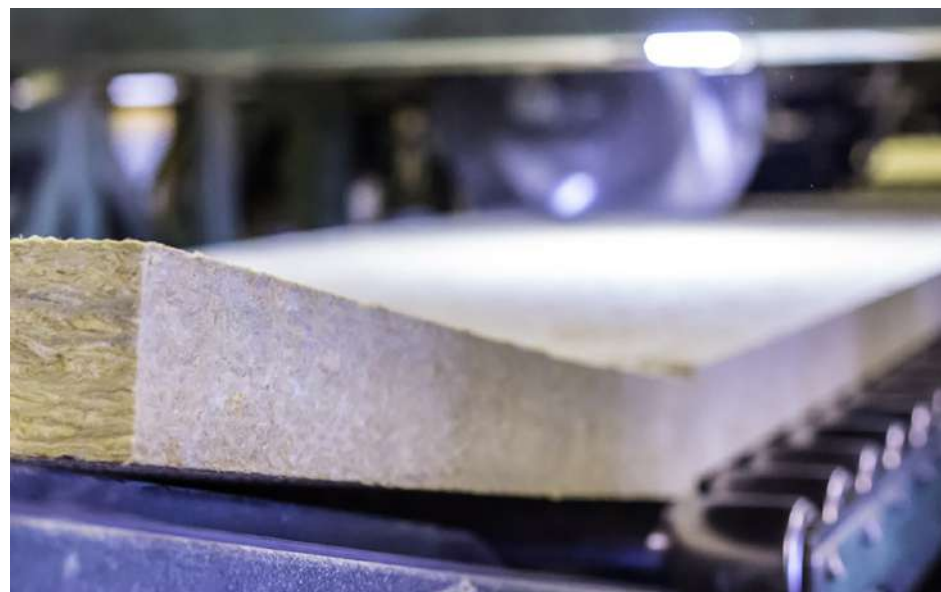
NP EN 1609

$W_s \leq 1.00$ kg/m²

WATER VAPOUR DIFFUSION FACTOR

EN 12086

$\mu = 1.30$



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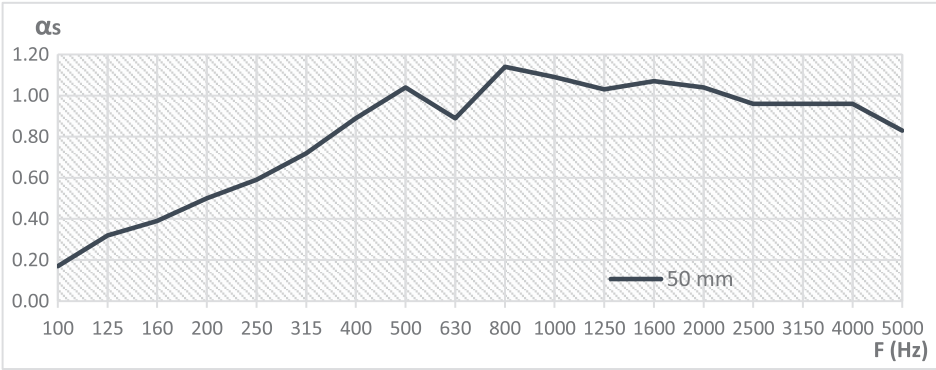
www.termolan.pt/en | www.rocterm.com | termolan@termolan.pt

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

DETAILS OF APPLICATION

