

PN 70 F

DOP 102

MW - EN 13162 - T4 - WS



TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.



Protection against fire



Thermal insulation



Acoustical insulation

DEFINITION:

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

APPLICATIONS:

Multiple applications for solutions of higher demands requirements as thermal, acoustical and protection against fire insulation.

BENEFITS:

- Easy and quick application;
- Easy adaptation to structural elements;
- High 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 of presentation:

THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822]
30 to 200	1200×600
210 to 240	1200×1200 1200×1000

Tolerances:

THICKNESS (CLASS T4): -3 % OR -3 mm ^{a)} TO +5 % OR +5 mm ^{b)}

LENGTH: ±2%

WIDTH: ±1.5%

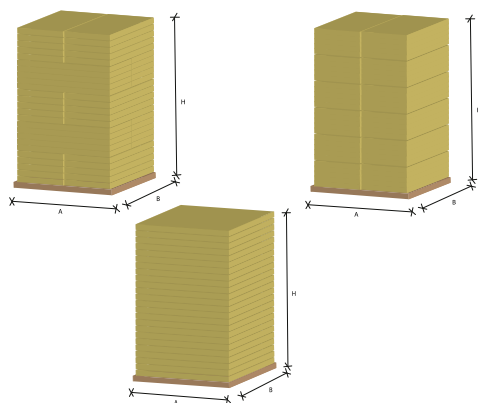
^{a)} Is valid the greatest numerical tolerance

^{b)} Is valid the lowest numerical tolerance

PACKAGING:

Packages packed in retractile plastic.

Geometry (A×B×H):



PHYSICAL PROPERTIES OF MATERIALS

NOMINAL DENSITY

70 kg/m³

THERMAL RESISTANCE, R_D

EN 12667
EN 12939

THICKNESS (mm)	30	40	50	60	70	80	90	100	110
R_D (m ² .K/W)	0.85	1.15	1.45	1.75	2.05	2.35	2.60	2.90	3.20
THICKNESS (mm)	120	130	140	150	160	170	180	190	200
R_D (m ² .K/W)	3.50	3.80	4.10	4.40	4.70	5.00	5.25	5.55	5.85
THICKNESS (mm)	210	220	230	240					
R_D (m ² .K/W)	6.15	6.45	6.75	7.05					

THERMAL CONDUCTIVITY, λ_D

EN 12667
EN 12939

Declared value: $\lambda_D = 0.034$ W/m.K

FIRE REACTION

EN 13501-1
ISO 1182

Incombustible - **EUROCLASS A1**



TERMOLAN

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

PHYSICAL PROPERTIES OF MATERIALS

WATER ABSORPTION

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

NP EN 1609

WATER VAPOUR DIFFUSION FACTOR

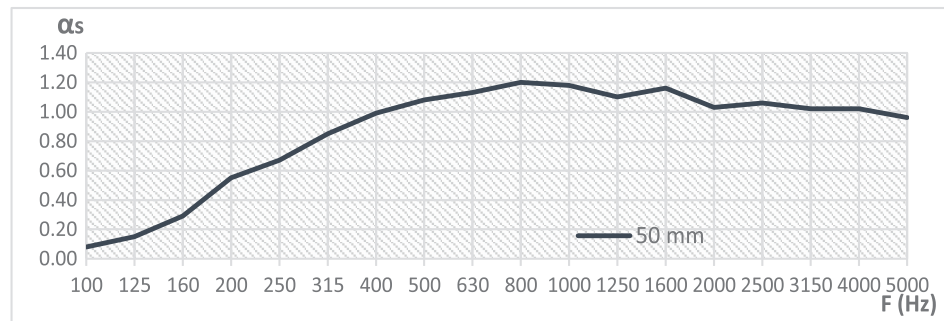
$\mu = 1.30$

EN 12086

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s	0.08	0.15	0.29	0.55	0.67	0.85	0.99	1.08	1.13
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s	1.20	1.18	1.10	1.16	1.03	1.06	1.02	1.02	0.96



EQUIVALENT ABSORPTION COEFFICIENT, α_w

EN ISO 11654

$\alpha_w = 1.00$ CLASS A

OTHER PROPERTIES

SQUARENESS [NP EN 824]	Deviation length / width < 5mm/m
FLATNESS [NP EN 825]	Deviation $\leq 6 \text{ mm}$
DIMENSIONAL STABILITY, $\Delta\epsilon$ [NP EN 1604]	23 °C / 90% HR: the relative deviation (length and width) do not exceed 0.0%
AIR FLOW RESISTIVITY [EN 29053]	$AFr > 20 \text{ kPa.s/m}^2$

SPECIFIC APPLICATIONS

- Insulation of horizontal interior partitions (Suspended ceilings)
- Underfloor insulation (mechanically fixed)
- Insulation of vertical interior partitions (Partition walls / Double ceramic sheet)
- Interior façade insulation
- Exterior insulation of facades (Ventilated façades / Curtain wall)
- Façade insulation in industrial buildings (Façades in metal trays)

