

PN 30

DOP 6

MW - EN 13162 - T3 - WS



TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.

DEFINITION:

Semi rigid slabs (30 kg/m³) of uniform thickness made of stone wool fibres bonded with synthetic binder, without facing.

APPLICATIONS:

Multiple applications in various constructive solutions, as thermal and acoustic insulation.

BENEFITS:

- Easy and quick application;
- Easy adaptation to structural elements;
- Stability: applied vertically neither bend nor breaks;
- Flexibility and cohesion;
- Very good insulation performances;
- Fire safety;
- Good 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]
40 to 100	1350×600

Tolerances:

THICKNESS (CLASS T3): -3 % OR -3 mm ^{a)} TO +10 % OR +10 mm ^{b)}

LENGTH: ±2 %

WIDTH: ±1.5 %

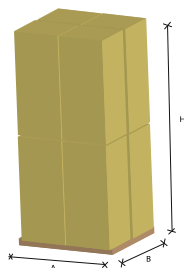
^{a)} Is valid the greatest numerical tolerance

^{b)} Is valid the lowest numerical tolerance

PACKAGING:

Packages packed in retractile plastic.

Geometry (A×B×H):



Protection against fire



Thermal insulation



Acoustical insulation

PHYSICAL PROPERTIES OF MATERIALS

THERMAL RESISTANCE, R_D

EN 12667
EN 12939

THICKNESS (mm)	40	50	60	80	100
R_D (m ² .K/W)	1.05	1.35	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

EN 13501-1
ISO 1182

Incombustible - **EUROCLASS A1**

WATER ABSORPTION

NP EN 1609

$WS \leq 1.00$ kg/m²

WATER VAPOUR DIFFUSION FACTOR

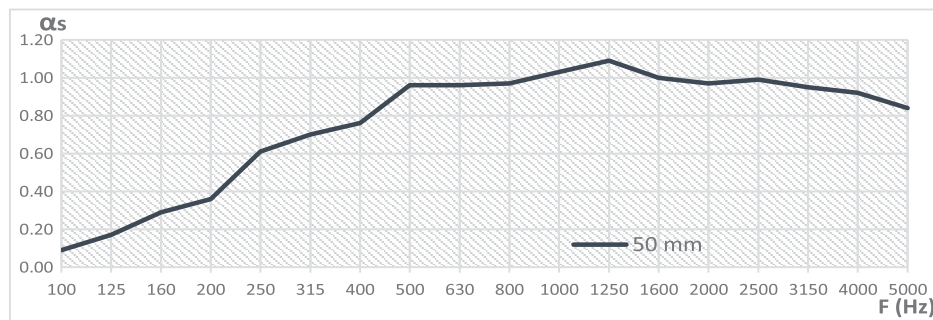
EN 12086

$\mu = 1$

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s	0.09	0.17	0.29	0.36	0.61	0.70	0.76	0.96	0.96
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s	0.97	1.03	1.09	1.00	0.97	0.99	0.95	0.92	0.84



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) doesn't exceed 0.1%
AIR FLOW RESISTIVITY, A_{Fr} [EN 29053]	> 5 kPa.s/m ²

