

PN 55

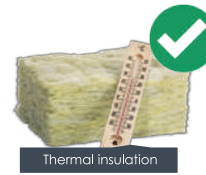
DOP 14

MW - EN 13162 - T3 - WS

RISE
Research Institutes
of Sweden



TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.



DEFINITION:

Rigid slabs (55 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;
- Very good thermal insulation and acoustic insulation;
- Good mechanical performance;
- Fire safety;
- Excellent water behaviour;
- Inert product respecting the environment (CFC and HCFC free).

PRESENTATION:

Slabs packed in packages. Options of presentation:

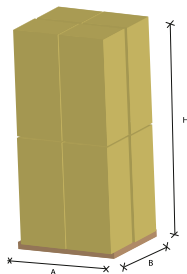
THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822]
30 to 100	1350×600

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):



PHYSICAL PROPERTIES OF MATERIALS

THERMAL RESISTANCE, R_D

EN 12667
EN 12939

THICKNESS (mm)	30	40	50	60	80	100
R_D (m ² .K/W)	0.85	1.15	1.45	1.75	2.35	2.90

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**

WATER ABSORPTION

NP EN 1609

$WS \leq 1.00$ kg/m²

WATER VAPOUR DIFFUSION FACTOR

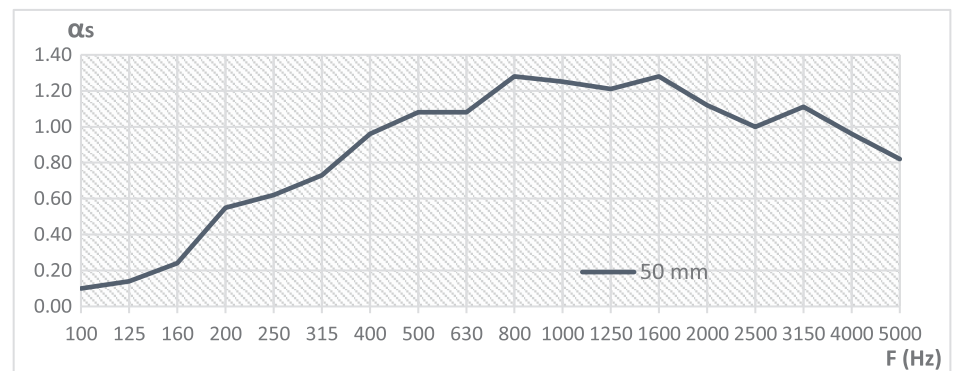
EN 12086

$\mu = 1.30$

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s		0.10	0.14	0.24	0.55	0.62	0.73	0.96	1.08
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s		1.28	1.25	1.21	1.28	1.12	1.00	1.11	0.96



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, AFR [EN 29053]	> 15 kPa.s/m ²



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