

PN 100

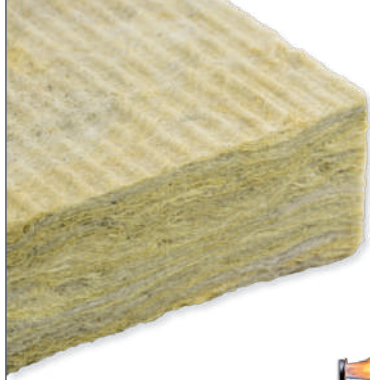
DOP 13

MW - EN 13162 - T4 - WS

RI SE
Research Institutes
of Sweden



TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.



DEFINITION:

Rigid slabs (100 kg/m³) of uniform thickness made of stone wool fibres bonded with synthetic binder, without facing.

APPLICATIONS:

Multiple as thermal acoustical insulation in higher demands requirements and fire protection, especially for vertical applications.

BENEFITS:

- Easy and quick application;
- Easy adaptation to structural elements;
- High insulation performances;
- High 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	1200x600

Tolerances:

THICKNESS (CLASS T4): -3 % OR -3 mm^{a)} TO +5% OR +5 mm^{b)}
LENGTH: ±2 %
WIDTH: ±1.5 %

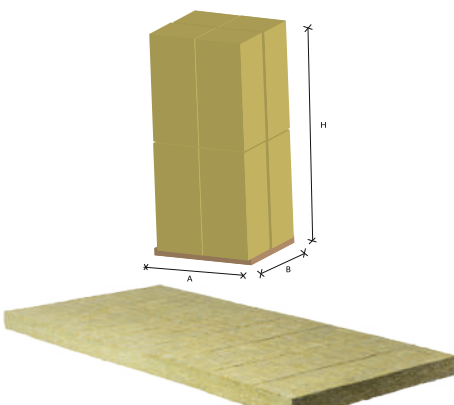
^{a)} Is valid the greatest numerical tolerance

^{b)} Is valid the lowest numerical tolerance

PACKAGING:

Packages packed in retractile plastic.

Geometry (AxBxH):



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)	0.90	1.20	1.50	1.80	2.40	3.00

THERMAL CONDUCTIVITY, λ_D

EN 12667
EN 12939

Declared value: $\lambda_D = 0.033$ 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

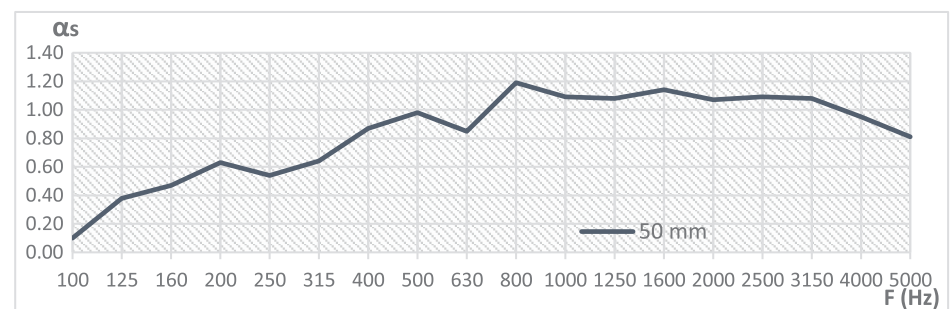
EN 12086

$\mu = 1.30$

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	0.38	0.47	0.63	0.54	0.64	0.87	0.98
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s		1.19	1.09	1.08	1.14	1.07	1.09	1.08	0.95



EQUIVALENT ABSORPTION COEFFICIENT, α_w

EN ISO 11654

$\alpha_w = 0.90$ (MH) CLASS A

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 deviaton (length and width) does not exceed 0.0%

