

PN 70

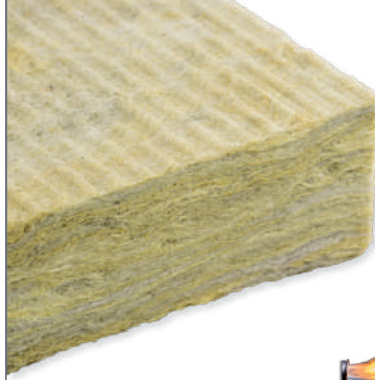
DOP 12

MW - EN 13162 - T4 - WS



TERMOLAN

ISOLAMENTOS TERMO-ACÚSTICOS, S.A.



DEFINITION:

Rigid slabs (70 kg/m³) 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 insulation.

BENEFITS:

- Easy and quick application;
- Easy adaptation to structural elements;
- Excellent thermal insulation and acoustic insulation;
- Very 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:

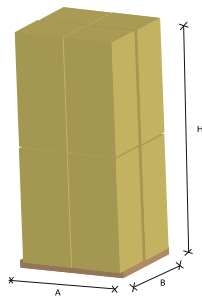
| THICKNESS (mm) [NP EN 823] | DIMENSIONS (mm) [NP EN 822] |
|-------------------------------|--------------------------------|
| 30 to 100 | 1350x600 |

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

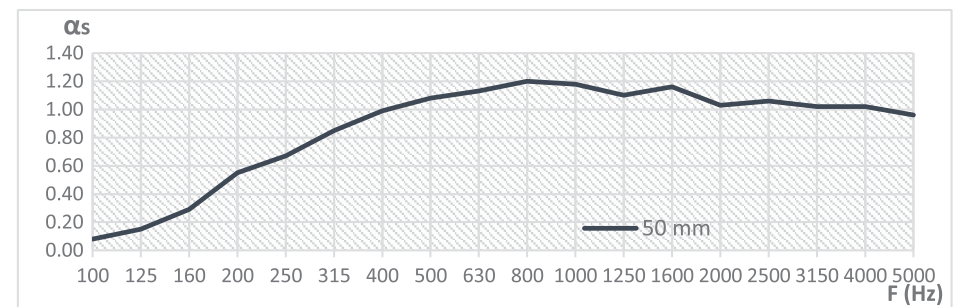
EN 12086

$\mu = 1.30$

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

| THICKNESS 50 mm | F (Hz) | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 |
|--------------------|------------|-----|------|------|------|------|------|------|------|------|
| | α_s | | 0.08 | 0.15 | 0.29 | 0.55 | 0.67 | 0.85 | 0.99 | 1.08 |
| | 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 |



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 ≤ 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] | > 20 kPa.s/m ² |

