

**MN 50**

DOP 63

**MK 50**

DOP 64

MW - EN 14303

**MA 50**

DOP 65

**TERMOLAN**  
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.**DEFINITION:**

Rolls of uniform thickness made of stone wool fibres bonded with synthetic binder, unfaced (MN 50) or faced with kraft paper (MK 50) or faced with a reinforced aluminium foil (MA 50).

**APPLICATIONS:**

Multiple applications such as thermal, acoustic and fire protection for equipment in construction of buildings and industrial installations, such as ventilation ducts, air conditioning equipment, pipes, boilers.

**BENEFITS:**

- Easy and quick application;
- High insulation performances;
- Very good mechanical performance;
- Fire safety;
- Chemically neutral and non corrosive;
- Very good water behaviour;
- Inert product respecting the environment (CFC and HCFC free).

**PRESENTATION:**

Rolls. Options:

THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822]
40	8000x1200
50	7000x1200
60	6000x1200

**Tolerances:**

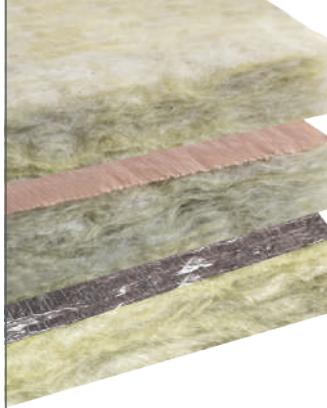
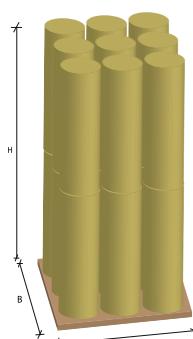
THICKNESS (CLASS T1): -5 % OR-5 mm <sup>a)</sup> TO +Excess permitted  
LENGTH: +excess /-0 mm

WIDTH: ±10 mm

<sup>a)</sup> Is valid the greatest numerical tolerance**PACKAGING:**

Rolls packed in retractile plastic.

Geometry (AxBxH):

**PHYSICAL PROPERTIES OF MATERIALS****NOTE:** MK 50 does not have RISE certification and is manufactured upon prior consultation.**NOMINAL DENSITY**EN 1602  
ASTM C167**50 kg/m³****MAXIMUM SERVICE TEMPERATURE**EN 14706  
ASTM C447**ST(+) = 350 °C****NOTES:**

1. Consider maximum service temperature only for MN 50 and MA 50 products;
2. The service temperature of the aluminum facing must not exceed 90 ° C.

**SPECIFIC HEAT FACTOR****c = 0.84 kJ/kg.°C****THERMAL CONDUCTIVITY,  $\lambda$** EN 12667  
ASTM C335

MEAN TEMPERATURE (°C)	10	50	100	150	200	250	300	350
$\lambda$ (W/m.K)	0.034	0.040	0.048	0.060	0.072	0.089	0.108	0.129
$\lambda$ (kcal/h.m.K)	0.029	0.034	0.041	0.052	0.062	0.077	0.093	0.111

**FIRE REACTION**EN 13501-1  
ASTM E84**MN 50** Incombustible - **EUROCLASS A1****MK 50** Indeterminate - **NPD****MA 50** Incombustible - **EUROCLASS A1****ACOUSTICAL ABSORPTION COEFFICIENT,  $\alpha_s$** 

EN ISO 354

THICKNESS 50 mm	F (Hz)	125	250	500	1000	2000	4000
	$\alpha_s$	0.14	0.62	1.08	1.25	1.12	0.96

**OTHER PROPERTIES**

DIMENSIONAL STABILITY, $\Delta\epsilon$ [NP EN 1604]	23 °C / 90% HR: the relative deviation (length and width) does not exceed 0.0%
WATER ABSORPTION [NP EN 1609]	WS ≤ 1.00 kg/m²
WATER VAPOUR PERMEABILITY [EN ISO 12572]	0.05 g/m²/24h (value depending on the aluminium)
WATER VAPOUR DIFFUSION FACTOR [EN 14303]	$\mu = 1.00$
AIR FLOW RESISTIVITY [EN 29053]	AF > 15 kPa.s/m² (for unfaced product)

**TERMOLAN**

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