

MN 40 **MA 40**
DOP 60 DOP 62

MK 40
DOP 61

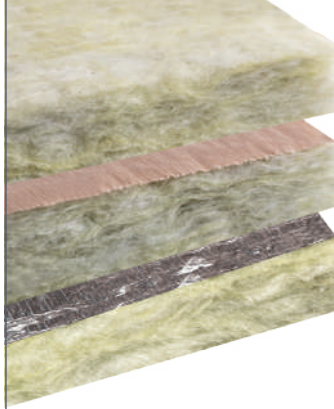
MW - EN 14303

RISE
Research Institutes
of Sweden



TERMOLAN

ISOLAMENTOS TERMO-ACÚSTICOS, S.A.



Protection against fire



Thermal insulation



Acoustical insulation

DEFINITION:

Rolls of uniform thickness made of stone wool fibres bonded with synthetic binder, unfaced (MN 40) or faced with kraft paper (MK 40) or faced with a reinforced aluminium foil (MA 40).

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]
50	8000x1200
60	7000x1200

Tolerances:

THICKNESS (CLASS T1): -5 % OR-5 mm ^{*)} TO +Excess permitted

LENGTH: +excess /-0 mm

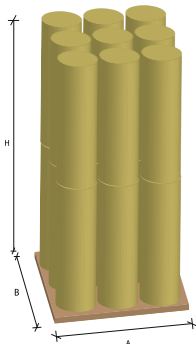
WIDTH: ±10 mm

^{*)} Is valid the greatest numerical tolerance

PACKAGING:

Rolls packed in retractile plastic.

Geometry (AxBxH):



PHYSICAL PROPERTIES OF MATERIALS

NOTE: MK 40 does not have RISE certification and is manufactured upon prior consultation.

NOMINAL DENSITY

40 kg/m³

EN 1602
ASTM C167

MAXIMUM SERVICE TEMPERATURE

ST(+)= 300 °C

NOTES:

1. Consider maximum service temperature only for MN 40 and MA 40 products;
2. The service temperature of the aluminum facing must not exceed 90 ° C.

EN 14706
ASTM C447

SPECIFIC HEAT FACTOR

c = 0.84 kJ/kg.°C

THERMAL CONDUCTIVITY, λ

EN 12667
ASTM C335

MEAN TEMPERATURE (°C)	10	50	100	150	200	250
λ (W/m.K)	0.035	0.043	0.053	0.068	0.085	0.106
λ (kcal/h.m.K)	0.030	0.037	0.046	0.058	0.073	0.091

FIRE REACTION

EN 13501-1
ASTM E84

MN 40 Incombustible - **EUROCLASS A1**

MK 40 Indeterminate - **NPD**

MA 40 Incombustible - **EUROCLASS A1**

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

THICKNESS 50 mm	F (Hz)	125	250	500	1000	2000	4000
	α _s	0.27	0.75	1.13	1.27	1.02	0.92

OTHER PROPERTIES

DIMENSIONAL STABILITY, Δε [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/m ²
WATER VAPOUR PERMEABILITY [EN ISO 12572]	0.05 g/m ² /24h (value depending on the aluminium)
WATER VAPOUR DIFFUSION FACTOR [EN 14303]	μ = 1.00
AIR FLOW RESISTIVITY [EN 29053]	AF > 10 kPa.s/m ² (for unfaced product)



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