

MN 70
DOP 66

MA 70
DOP 68

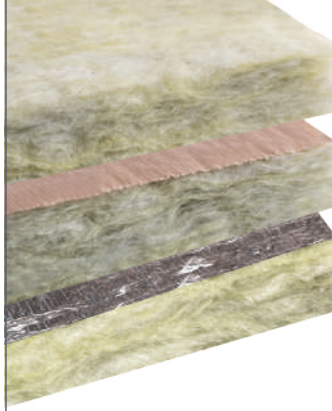
MK 70
DOP 67

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 70) or faced with kraft paper (MK 70) or faced with a reinforced aluminium foil (MA 70).

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]
30	8000×1200
40	7000×1200
50	5000×1200
60	4000×1200

Tolerances:

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

LENGTH: +excess /-0 mm

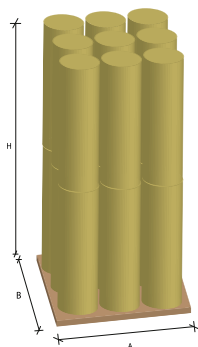
WIDTH: ±10 mm

^{a)} Is valid the greatest numerical tolerance

PACKAGING:

Rolls packed in retractile plastic.

Geometry (A×B×H):



PHYSICAL PROPERTIES OF MATERIALS

NOTE: MK 70 does not have RISE and DNV-GL certifications and is manufactured upon prior consultation.

NOMINAL DENSITY

70 kg/m³

EN 1602
ASTM C167

MAXIMUM SERVICE TEMPERATURE

EN 14706
ASTM C447

ST(+) = 500 °C

NOTES:

1. Consider maximum service temperature only for MN 70 and MA 70 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, λ

EN 12667
ASTM C335

MEAN TEMPERATURE (°C)	10	50	100	150	200	250	300	350	400
λ (W/m.K)	0.033	0.042	0.049	0.061	0.075	0.090	0.109	0.151	0.155
λ (kcal/h.m.K)	0.028	0.036	0.042	0.052	0.064	0.077	0.094	0.130	0.133

FIRE REACTION

EN 13501-1
ASTM E84

MN 70 Incombustible - **EUROCLASS A1**

MK 70 Indeterminate - **NPD**

MA 70 Incombustible - **EUROCLASS A1**

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

THICKNESS 50 mm	F (Hz)	125	250	500	1000	2000	4000
	α_s	0.15	0.67	1.08	1.18	1.03	1.02

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]

μ = 1.00

AIR FLOW RESISTIVITY [EN 29053]

AF > 20 kPa.s/m² (for unfaced product)

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