R 70

DOP 51

MW - EN 14303

RI.SE Research Institutes of Sweden

CE

TERMOLAN

ISOLAMENTOS TERMO-ACÚSTICOS, S.A.

ROCTERM+

DEFINITION:

Rolls of uniform thickness made of stone wool fibres bonded with synthetic binder, fixed in a wired galvanized mesh.

APPLICATIONS:

Multiple as thermal acoustical insulation industrial and maritime applications such as large pipes, flanges, vessels and boilers. They are also ideal for large curved surfaces.

BENEFITS:

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

PRESENTATION:

Rolls. Options:

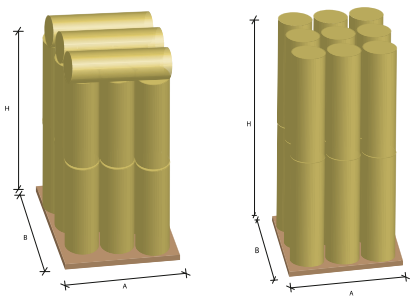
THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822]
40	6000×1200
50	5000×1200
60	5000×1000
70	4000×1000
80	3500×1000
100	3000×1000

Tolerances:

THICKNESS (CLASS T2): -5 % OR -5 mm [a] TO +15 % OR +15 mm [b]
LENGTH: +excess / -0 mm
WIDTH: ±10 mm
[a] Is valid the greatest numerical tolerance
[b] Is valid the lowest numerical tolerance

PACKAGING:

Rolls packed in retractile plastic.
Geometry (A×B×H):



PHYSICAL PROPERTIES OF MATERIALS

NOMINAL DENSITY

EN 1602
ASTM C167

70 kg/m³

MAXIMUM SERVICE TEMPERATURE

EN 14706
ASTM C447

ST(+) = 600 °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

REACCIÓN AL FUEGO

EN 13501-1
ASTM E84

Incombustible - **EUROCLASE A1**

TYPE APROVED PRODUCT
MED - B / MED - D
DNV

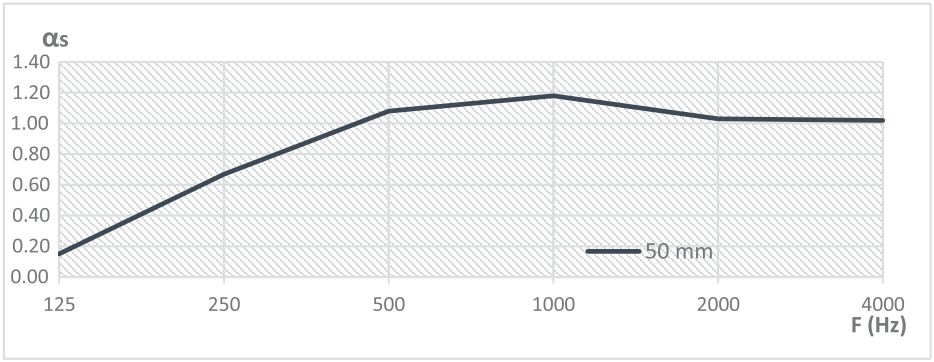
AENOR GESTÃO DE QUALIDADE ISO 9001 ER-0304/2021
AENOR GESTÃO AMBIENTAL ISO 14001 GA-2021/0134
IQNET RECOGNIZED CERTIFICATION
ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C
ECO PLATFORM EPD EN 15804 VERIFIED

PHYSICAL PROPERTIES OF MATERIALS

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



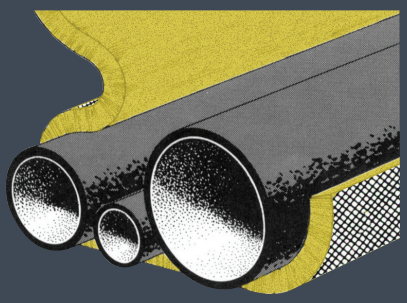
EQUIVALENT ABSORPTION COEFFICIENT, α_w

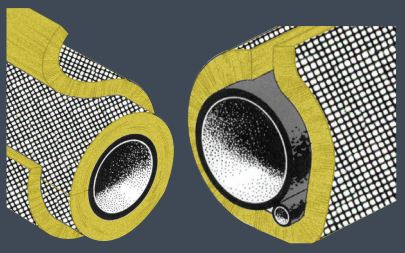
EN ISO 11654

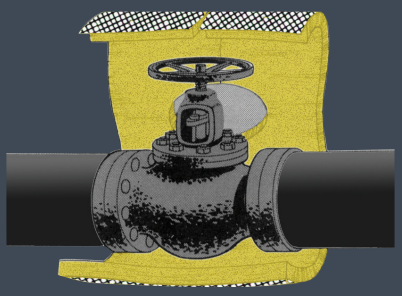
α_w = 1.00 CLASS A

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/m²
CORROSION [ASTM C795 and ASTM C692]	Non corrosive product: In an acceptable zone of Karnes Curve.
WATER VAPOUR DIFFUSION FACTOR [EN 14303]	μ = 1.00
AIR FLOW RESISTIVITY [EN 29053]	AF > 30 kPa.s/m²







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