

R 80

DOP 81

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, 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]
30	8000×1200
40	6000×1200
50	5000×1000
60	4500×1000
70	4000×1000
80	3500×1000
100	3000×1000

Tolerances:THICKNESS (CLASS T2): -5 % OR -5 mm ^{a)} TO +15 % OR +15 mm ^{b)}

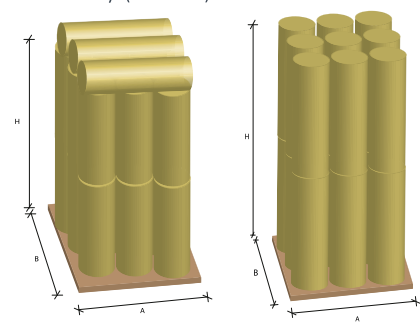
LENGTH: +excess / -0 mm

WIDTH: ±10 mm

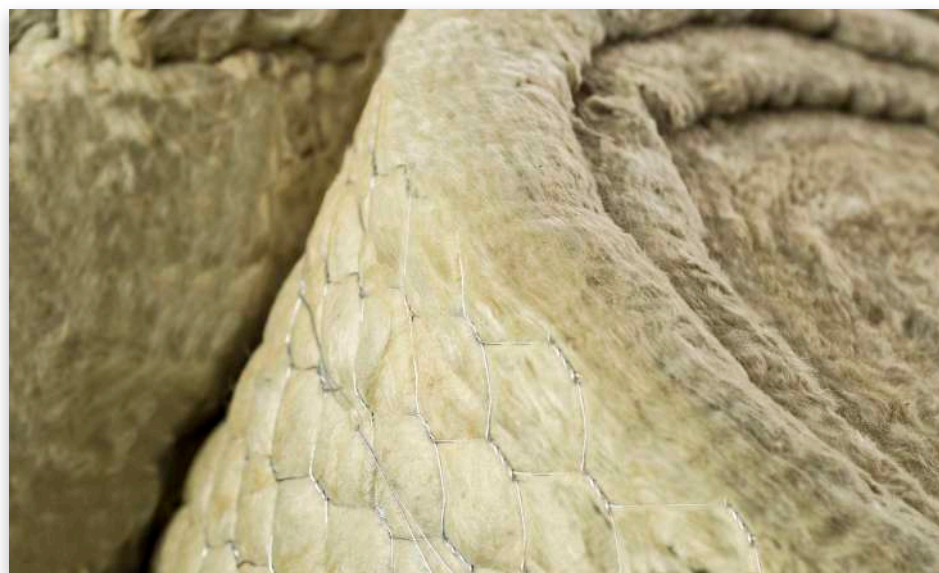
^{a)} Is valid the greatest numerical tolerance^{b)} Is valid the lowest numerical tolerance**PACKAGING:**

Rolls packed in retractile plastic.

Geometry (A×B×H):

**PHYSICAL PROPERTIES OF MATERIALS****NOMINAL DENSITY**EN 1602
ASTM C167**80 kg/m³****MAXIMUM SERVICE TEMPERATURE**EN 14706
ASTM C447**ST(+) = 640 °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	0.041	0.045	0.053	0.061	0.073	0.084	0.097	0.113
λ (kcal/h.m.K)	0.028	0.035	0.039	0.046	0.052	0.063	0.072	0.083	0.097

FIRE REACTIONEN 13501-1
ASTM E84Incombustible - **EUROCLASS A1****TERMOLAN**

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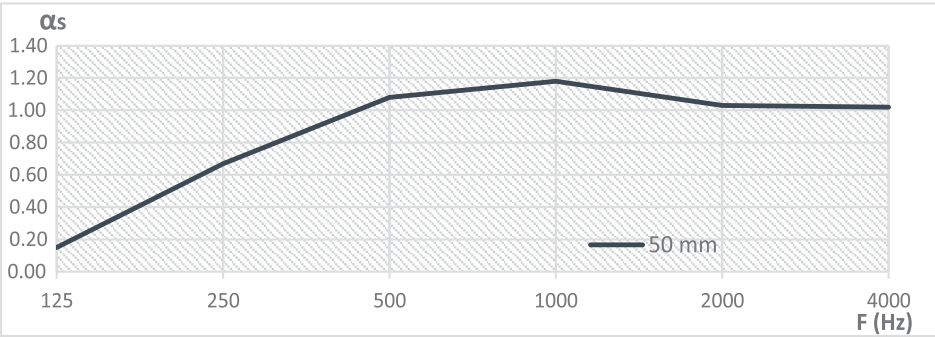


PHYSICAL PROPERTIES OF MATERIALS

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

$\alpha_w = 1.00$ CLASS A

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 $\leq$ 1.00 kg/m ²
CORROSION [ASTM C795 and ASTM C692]	Non corrosive product: In an acceptable zone of Karnes Curve.
WATER VAPOUR DIFFUSION FACTOR [EN 14303]	$\mu = 1.00$
AIR FLOW RESISTIVITY [EN 29053]	AF > 40 kPa.s/m ²

