

CHAMINÉ

DOP 69

MW - EN 14303

RI
SE
Research Institutes
of Sweden



TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.

DEFINITION:

Rigid slabs of uniform thickness made of stone wool fibres bonded with synthetic binder, faced with aluminium.

APPLICATIONS:

Multiple applications as thermal insulation of fireplaces, furnaces, heat stove and other equipments.

BENEFITS:

- Easy and quick application;
- High insulation performances;
- Good mechanical performance;
- Easy adaptation to structural elements;
- Energy saving;
- Safety in case of fire;
- Chemically neutral and no corrosive;
- Excellent water behaviour;
- Inert product respecting the environment (CFC and HCFC free).

PRESENTATION:

Slabs: Options of presentation:

THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822]
30	1000×600
40	

Tolerances:

THICKNESS (CLASS T4): -3 % OR -3 mm ^{a)} TO +5 % OR +5 mm ^{b)}

LENGTH: ±2%

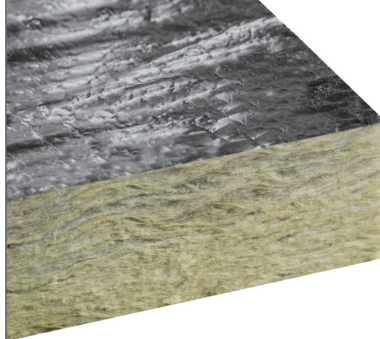
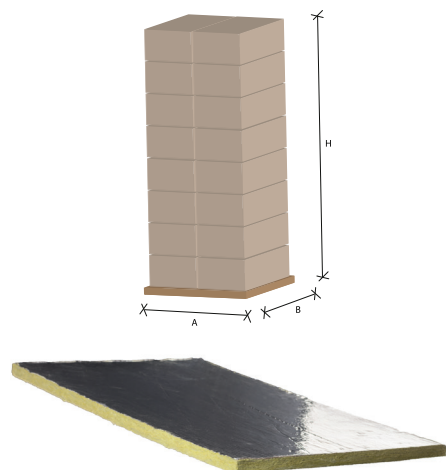
WIDTH: ±1.5%

^{a)} Is valid the greatest numerical tolerance

^{b)} Is valid the lowest numerical tolerance

PACKAGING:

Cardboard box. Geometry (A×B×H):



PHYSICAL PROPERTIES OF MATERIALS

MAXIMUM SERVICE TEMPERATURE

ST(+) = 600 °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	300	350	400
λ (W/m.K)	0.033	0.039	0.046	0.055	0.066	0.078	0.093	0.109	0.128
λ (kcal/h.m.K)	0.028	0.034	0.040	0.047	0.057	0.067	0.080	0.094	0.110

FIRE REACTION

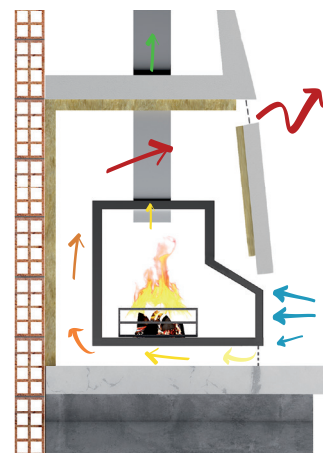
Incombustible - **EUROCLASS A1**

EN 13501-1
ISO 1182

OTHER PROPERTIES

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 = 1.30

DETAILS OF APPLICATION



- Slabs placed in the chimney with the aluminium facing to the fireplace, to increase the thermal efficiency of the system.

