Pi 40 Pi 40 AL

DOP 37 DOP 38

MW - EN 14303

RISE Research Institutes of Sweden

CE

TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.

ROCTERM+

DEFINITION:
Semi rigid slabs of uniform thickness made of stone wool fibres bonded with synthetic binder, without facing - Pi 40 - or aluminium faced - Pi 40 AL.

APPLICATIONS:
Multilple as thermal acoustical insulation in industrial applications, ducts, tanks and large vessels.

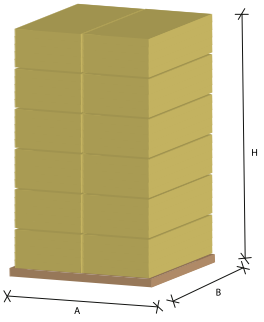
BENEFITS:
- Easy and quick application;
- Easy adaptation to structural elements;
- High insulation performances;
- Good mechanical performance;
- Fire safety;
- Chemically neutral and non corrosive;
- Excellent water behaviour;
- Inert product respecting the environment (CFC and HCFC free).

PRESENTATION:
Slabs packed in packages. Options:

Product	THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822]
Pi 40	30 to 100	1000×600
Pi 40 AL	50 to 100	

Tolerances:
THICKNESS (CLASS T3): -3 % OR-3 mm [a] TO +10 % OR +10 mm [b]
LENGTH: ±2%
WIDTH: ±1.5%
[a] Is valid the greatest numerical tolerance
[b] Is valid the lowest numerical tolerance

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



PHYSICAL PROPERTIES OF MATERIALS

NOMINAL DENSITY

EN 1602
ASTM C167

40 kg/m³

MAXIMUM SERVICE TEMPERATURE

EN 14706
ASTM C447

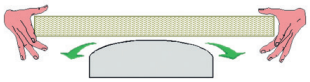
ST(+) = 250 °C

NOTE: The service temperature of the aluminum facing must not exceed 90 ° C.

SPECIFIC HEAT FACTOR

c = 0.84 kJ/kg.°C

MAXIMUM BENDING RADIUS



THICKNESS (mm)	30	40	50	60	70	80	100
RADIUS (mm)	400	500	700	900	1100	1300	1800

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

Incombustible - **EUROCLASS A1**

TYPE APROVED PRODUCT
MED - B / MED - D
DNV

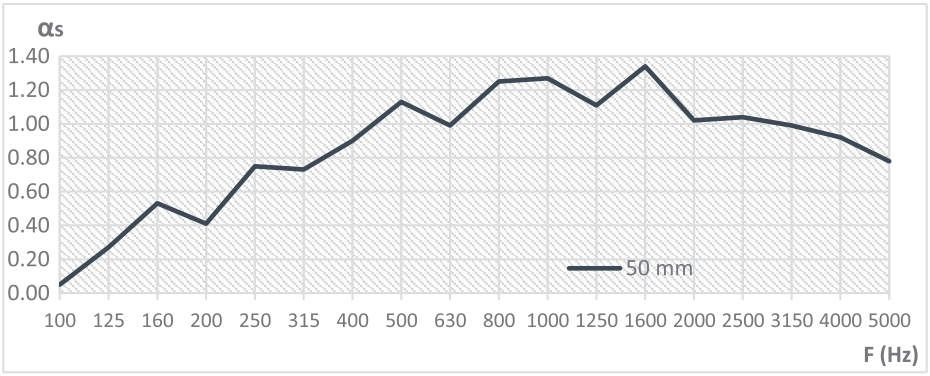
AENOR GESTÃO DE QUALIDADE ISO 9001 ER-0304/2021
AENOR GESTÃO AMBIENTAL ISO 14001 GA-2021/0134
IQNET RECOGNIZED CERTIFICATION
ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C
ECO PLATFORM EPD EN 15804 VERIFIED

PHYSICAL PROPERTIES OF MATERIALS

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s	0.05	0.27	0.53	0.41	0.75	0.73	0.90	1.13	0.99
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s	1.25	1.27	1.11	1.34	1.02	1.04	0.99	0.92	0.78



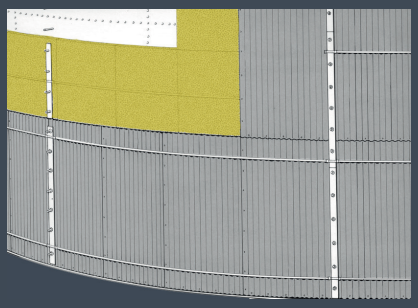
EQUIVALENT ABSORPTION COEFFICIENT, α_w

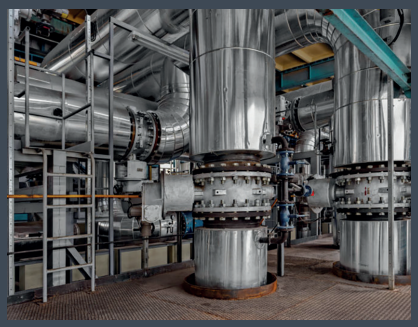
EN ISO 11654

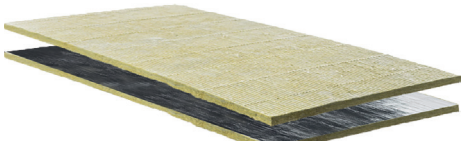
α_w = 0.95 (MH) CLASS A

OTHER PROPERTIES

SQUARENESS [NP EN 824]	Deviation length / width < 5mm/m
FLATNESS [NP EN 825]	Deviation ≤ 6 mm
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
WATER VAPOUR PERMEABILITY [EN ISO 12572]	0.05 g/m²/24h (value depending of the aluminium facing)
WATER VAPOUR DIFFUSION FACTOR [EN 14303]	μ = 1.00
AIR FLOW RESISTIVITY [EN 29053]	AF > 10 kPa.s/m² (value for unfaced product)







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