WindAcoustic 40 DOP 26

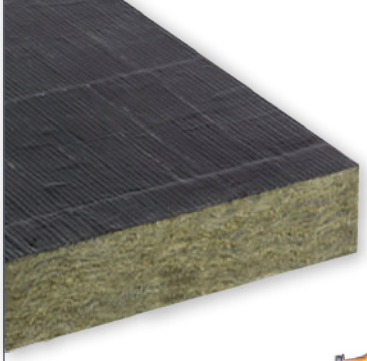
WindAcoustic 70 DOP 27

MW - EN 13162 - T4 - WS

RISE Research Institutes of Sweden

CE

TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.



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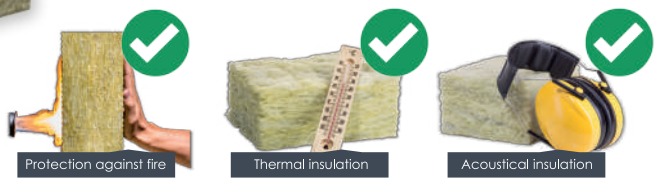


DEFINITION:
Slabs of uniform thickness made of stone wool fibres, bonded with synthetic binder, faced with an anti-disintegrating fiberglass veil of high resistance to vibrations.

APPLICATIONS:
Slabs specially designed for:
- thermal insulation and acoustic correction of places where high levels of noise are produced, being, by excellence, a suitable product for sound absorption solutions.
- thermal, acoustic and protection against fire insulation in ventilated facades.

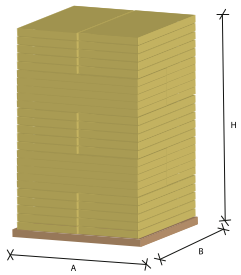
BENEFITS:
- Easy and quick application;
- Correction, absortion and noise redution;
- Excellent acoustical insulation;
- Very good thermal insulation;
- Very good mechanical performance;
- Safety in case of fire;
- Excellent water behaviour;
- Inert product respecting the environment (CFC and HCFC free).

PRESENTATION:
Slabs. Options:

THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822]
30 to 100	1200×600

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



PHYSICAL PROPERTIES OF MATERIALS

NOMINAL DENSITY

WindAcoustic 40 — **40 kg/m³**

WindAcoustic 70 — **70 kg/m³**

MAXIMUM SERVICE TEMPERATURE

EN 14706
ASTM C447

WindAcoustic 40 — **ST(+) = 250 °C**

WindAcoustic 70 — **ST(+) = 400 °C**

SPECIFIC HEAT FACTOR

c = 0.84 kJ/kg.°C

THERMAL RESISTANCE, R_D

EN 12667
EN 12939

WindAcoustic 40

THICKNESS (mm)	40	50	60	80	100
R_D (m².K/W)	1.10	1.40	1.70	2.25	2.85

WindAcoustic 70

THICKNESS (mm)	30	40	50	60	80	100
R_D (m².K/W)	0.90	1.20	1.50	1.80	2.40	3.00

THERMAL CONDUCTIVITY, λ_D

EN 12667
EN 12939

WindAcoustic 40

Declared value: **λ_D = 0.035 W/m.K**

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

WindAcoustic 70

Declared value: **λ_D = 0.033 W/m.K**

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

PHYSICAL PROPERTIES OF MATERIALS

FIRE REACTION

EN 13501-1
ISO 1182

Incombustible - **EUROCLASS A1**

WATER ABSORPTION

NP EN 1609

WS ≤ 1.00 kg/m²

WATER VAPOUR DIFFUSION FACTOR

EN 12086

μ = 1.30

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

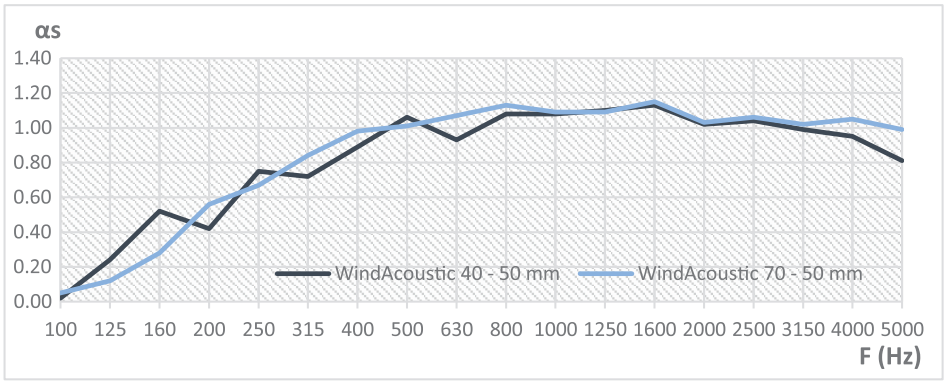
EN ISO 354

WindAcoustic 40

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s	0.02	0.24	0.52	0.42	0.75	0.72	0.89	1.06	0.93
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s	1.08	1.08	1.10	1.13	1.02	1.04	0.99	0.95	0.81

WindAcoustic 70

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s	0.05	0.12	0.28	0.56	0.67	0.84	0.98	1.01	1.07
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s	1.13	1.09	1.09	1.15	1.03	1.06	1.02	1.05	0.99

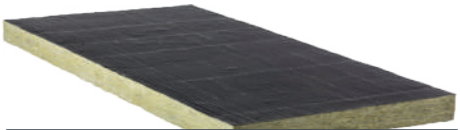


EQUIVALENT ABSORPTION COEFFICIENT, α_w

EN ISO 11654

WindAcoustic 40 α_w **= 0.95 (MH) CLASS A**

WindAcoustic 70 α_w **= 1.00 CLASS A**



OTHER PROPERTIES

SQUARENESS [NP EN 824]	Deviation lenght / width < 5 mm/m
DIMENSIONAL STABILITY, Δε [NP EN 1604]	23 °C / 90% HR: the relative deviaton (length and width) does not exceed 0.0%