

T 40 VF
DOP 15
T 70 VF
DOP 17
T 55 VF
DOP 16

MW - EN 13162 - T4 - WS

RI SE
Research Institutes
of Sweden



TERMOLAN
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.

DEFINITION:

Slabs of uniform thickness made of stone wool fibres, bonded with synthetic binder, faced with an anti-disintegrating fiberglass veil.

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;
- Excellent acoustical insulation;
- Correction, absorption and noise reduction;
- 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 %

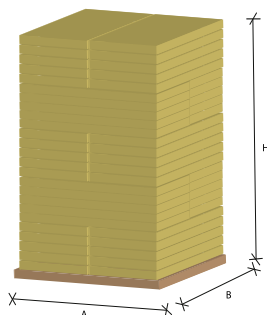
^{a)} Is valid the greatest numerical tolerance

^{b)} Is valid the lowest numerical tolerance

PACKAGING:

Packages packed in retractile plastic.

Geometry (A×B×H):



Protection against fire



Thermal insulation



Acoustical insulation

PHYSICAL PROPERTIES OF MATERIALS

NOMINAL DENSITY

T 40 VF 40 kg/m³

T 55 VF 55 kg/m³

T 70 VF 70 kg/m³

THERMAL RESISTANCE, R_D

EN 12667
EN 12939

T 40 VF

THICKNESS (mm)	40	50	60	80	100
R_D (m ² .K/W)	1.10	1.40	1.70	2.25	2.85

T 55 VF

THICKNESS (mm)	40	50	60	80	100
R_D (m ² .K/W)	1.15	1.45	1.75	2.35	2.90

T 70 VF

THICKNESS (mm)	30	40	50	60	80	100
R_D (m ² .K/W)	0.90	1.20	1.50	1.80	2.40	3.00

THERMAL CONDUCTIVITY, λ_D

EN 12667
EN 12939

T 40 VF Declared value: $\lambda_D = 0.035$ W/m.K

T 55 VF Declared value: $\lambda_D = 0.034$ W/m.K

T 70 VF Declared value: $\lambda_D = 0.033$ W/m.K

FIRE REACTION

EN 13501-1
ISO 1182

Incombustible - **EUROCLASS A1**

WATER ABSORPTION

NP EN 1609

$WS \leq 1.00$ kg/m²

WATER VAPOUR DIFFUSION FACTOR

EN 12086

$\mu = 1.30$

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PHYSICAL PROPERTIES OF MATERIALS

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

T 40 VF

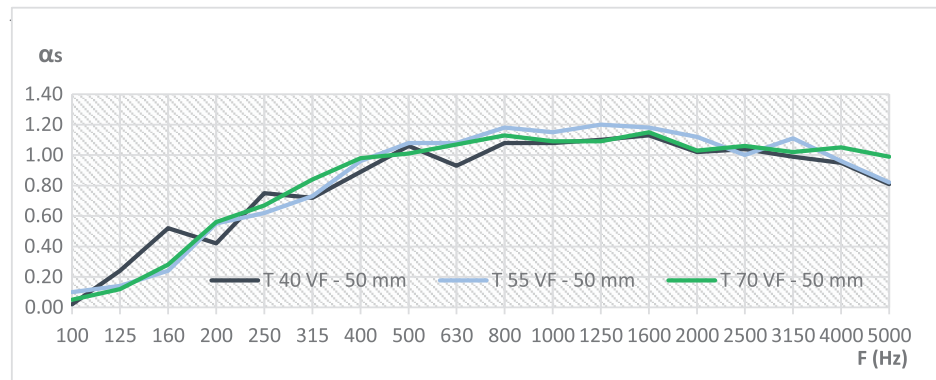
THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
α_s		0.02	0.24	0.52	0.42	0.75	0.72	0.89	1.06	0.93
THICKNESS 50 mm	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
α_s		1.08	1.08	1.10	1.13	1.02	1.04	0.99	0.95	0.81

T 55 VF

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
α_s		0.10	0.14	0.24	0.55	0.62	0.73	0.96	1.08	1.08
THICKNESS 50 mm	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
α_s		1.18	1.15	1.20	1.18	1.12	1.00	1.11	0.96	0.82

T 70 VF

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
THICKNESS 50 mm	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

T 40 VF $\alpha_w = 0.95$ (MH) CLASS A

T 55 VF $\alpha_w = 0.90$ (MH) CLASS A

T 70 VF $\alpha_w = 1.00$ CLASS A

OTHER PROPERTIES

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

