

GC 70

DOP 24

GC 90

DOP 25

MW - EN 13162 - T4 - WS

**RI
SE**Research Institutes
of Sweden**TERMOLAN**

ISOLAMENTOS TERMO-ACÚSTICOS, S.A.



Protection against fire



Thermal insulation



Acoustical insulation

DEFINITION:

Rigid slabs of uniform thickness made of stone wool fibres bonded with synthetic binder, without facing.

APPLICATIONS:

Slabs specially designed and manufactured in size appropriate to be attached to plasterboards. Perfect for rehabilitation applications and inside the buildings as thermal insulation and acoustic correction in solutions needed a low noise level.

BENEFITS:

- Easy and quick application;
- Easy adaptation to structural elements;
- High mechanical performance;
- High insulation performances;
- Fire safety;
- 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	2500×1200
40	OR
50	2600×1200

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

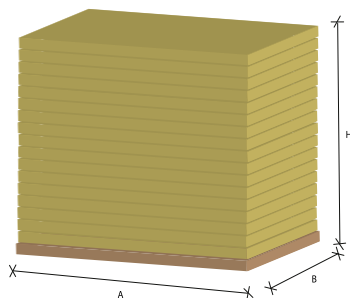
LENGTH: ±2%

WIDTH: ±1.5%

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

Slabs on pallets wrapped in plastic film.

Geometry (A×B×H):



PHYSICAL PROPERTIES OF MATERIALS

NOMINAL DENSITY

GC 70**70 kg/m³****GC 90****90 kg/m³**

THERMAL RESISTANCE, R_D

EN 12667

EN 12939

THICKNESS (mm)	30	40	50
R_D (m ² .K/W)	0.90	1.20	1.50

THERMAL CONDUCTIVITY, λ_D

EN 12667

EN 12939

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

FIRE REACTION

Incombustible - **EUROCLASS A1**

EN 13501-1

ISO 1182

WATER ABSORPTION

WS ≤ 1.00 kg/m²

NP EN 1609

WATER VAPOUR DIFFUSION FACTOR

 $\mu = 1.30$

EN 12086

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PHYSICAL PROPERTIES OF MATERIALS

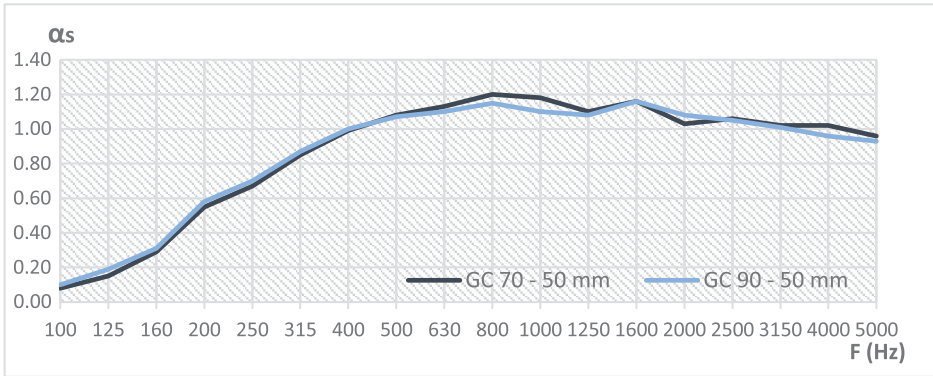
ACOUSTICAL ABSORPTION COEFFICIENT, α_s EN ISO 354

GC 70

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s	0.08	0.15	0.29	0.55	0.67	0.85	0.99	1.08	1.13
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s	1.20	1.18	1.10	1.16	1.03	1.06	1.02	1.02	0.96

GC 90

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s	0.10	0.19	0.31	0.58	0.70	0.87	1.00	1.07	1.10
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s	1.15	1.10	1.08	1.16	1.08	1.05	1.01	0.96	0.93



EQUIVALENT ABSORPTION COEFFICIENT, α_w EN ISO 11654

$\alpha_w = 1.00$ CLASS A

OTHER PROPERTIES

SQUARENESS [NP EN 824]	Deviation lenght / width < 5mm/m
FLATNESS [NP EN 825]	Deviation ≤ 6 mm
DIMENSIONAL STABILITY, $\Delta\epsilon$ [NP EN 1604]	23 °C / 90% HR: the relative deviaton (length and width) do not exceed 0.0%

DETAILS OF APPLICATION

