

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.

**DEFINITION:**

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

APPLICATIONS:

Slabs specially designed and manufactured in appropriate sizes to be attached to plasterboards. Perfect for rehabilitation applications for interior in buildings for thermal insulation and acoustic correction in solutions who need 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%

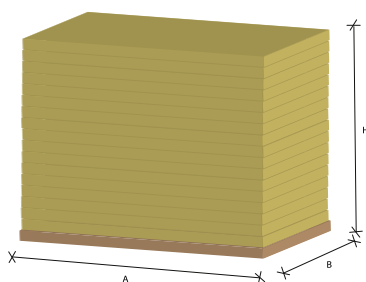
WIDTH: ±1.5%

^{a)} Is valid the greatest numerical tolerance

^{b)} Is valid the lowest numerical tolerance

PACKAGING:

Slabs over pallets packed with retractile plastic. 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

EN 13501-1
ISO 1182

Incombustible - **EUROCLASS A1**

WATER ABSORPTION

NP EN 1609

WS ≤ 1.00 kg/m²

WATER VAPOUR DIFFUSION FACTOR

EN 12086

$\mu = 1$



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PHYSICAL PROPERTIES OF MATERIALS

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

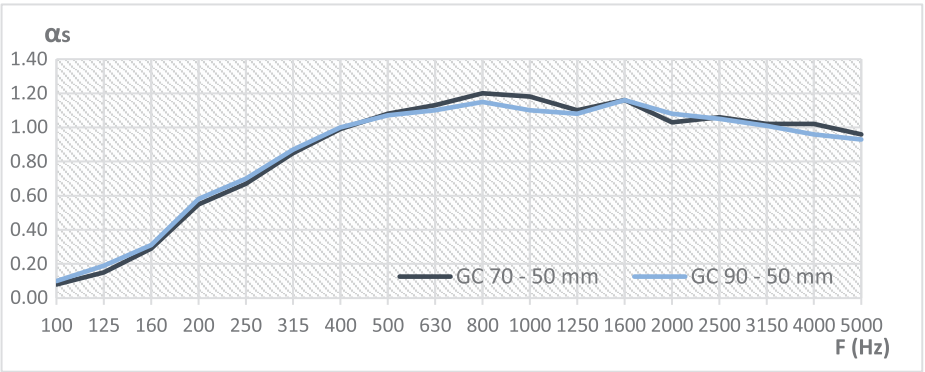
EN ISO 354

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 $\leq$ 6 mm
DIMENSIONAL STABILITY, $\Delta\epsilon$ [NP EN 1604]	23 °C / 90% HR: the relative deviaton (length and width) do not exceed 0.0%

