

COBERLAN**N75****B75**

DOP 21

DOP 23

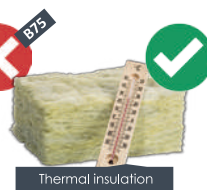
MW - EN 13162 - T5 - WS

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

ISOLAMENTOS TERMO-ACÚSTICOS, S.A.



Protection against fire



Thermal insulation



Acoustical insulation

DEFINITION:

Rigid and high density slabs of uniform thickness made of stone wool crimped fibres bonded with synthetic binder, without facing (N75) or impregnated with bitumen (B75).

APPLICATIONS:

Thermal and acoustic insulation solutions recommended for flat roofs (steel decking and concrete) specially designed to function as a waterproofing support.

BENEFITS:

- Easy and quick application;
- High insulation performances;
- Excellent mechanical behaviour:
 - High compressive traction strength resistance;
 - Very good perpendicular traction strength behaviour;
 - High resistance to rupture (excellent support for steel profiles with big gaps);
- 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 to 140	1200×1000

Tolerances:THICKNESS (CLASS T5): -1 % OR -1 mm ^{a)} TO +3 mm

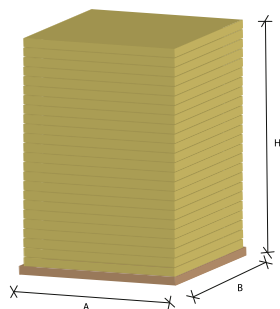
LENGTH: ±2 %

WIDTH: ±1.5 %

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

Retractable plastic packs under pallets.

Geometry (A×B×H):



PHYSICAL PROPERTIES OF MATERIALS

NOMINAL DENSITY

≈ 175 kg/m³

THERMAL RESISTANCE, R_D

EN 12667

EN 12939

THICKNESS (mm)	30	40	50	60	70	80	90
R_D (m ² .K/W)	0.80	1.05	1.35	1.55	1.80	2.10	2.35
THICKNESS (mm)	100	110	120	130	140		
R_D (m ² .K/W)	2.60	2.85	3.15	3.40	3.65		

THERMAL CONDUCTIVITY, λ_D

EN 12667

EN 12939

Declared value: $\lambda_D = 0.037$ W/m.K (for thickness between 30 mm and 50 mm)Declared value: $\lambda_D = 0.038$ W/m.K (for thickness between 60 mm and 140 mm)

FIRE REACTION

EN 13501-1

ISO 1182

COBERLAN N75 Incombustible - **EUROCLASS A1****COBERLAN B75** Indeterminate

WATER ABSORPTION

NP EN 1609

 $WS \leq 1.00$ kg/m²

WATER VAPOUR DIFFUSION FACTOR

EN 12086

 $\mu = 1.30$ **TERMOLAN**

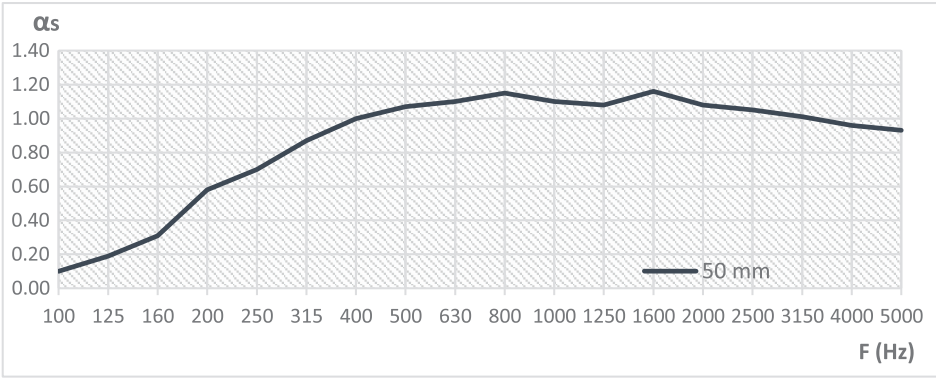
www.termolan.pt/en | www.rocterm.com | termolan@termolan.pt

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	0.10	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

$\alpha_w = 0.75$ (MH) CLASS C

OTHER PROPERTIES

SQUARENESS [NP EN 824]	Deviation length / width < 5 mm/m
FLATNESS [NP EN 825]	Deviation ≤ 6 mm
DIMENSIONAL STABILITY, $\Delta\epsilon$ [NP EN 1604]	23 °C / 90% HR: the relative deviation (length and width) doesn't exceed 0.0%
TENSILE STRENGTH PERPENDICULAR TO FACES [NP EN 1607]	≥ 15 kPa
COMPRESSIVE STRENGTH, σ_{10} [NP EN 826]	≥ 70 kPa
POINT LOAD [EN 12430]	≥ 550 N

DETAILS OF APPLICATION

COBERLAN N75

COBERLAN B75

