

COBERLAN**DD**

DOP 34

MW - EN 13162 - T5 - WS

RISEResearch 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, with 2 layers of different hardness and high density, being the upper layer harder and more resistant to footprints.

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]
60 to 140	1200×1000

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

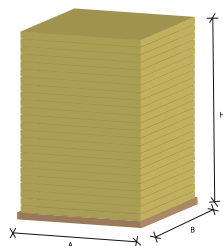
LENGTH: ±2 %

WIDTH: ±1.5 %

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

Retractable plastic packs under pallets.

Geometry (A×B×H):



PHYSICAL PROPERTIES OF MATERIALS

THERMAL RESISTANCE, R_D

EN 12667
EN 12939

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

THERMAL CONDUCTIVITY, λ_D

EN 12667
EN 12939Declared value: $\lambda_D = 0.038$ W/m.K

FIRE REACTION

EN 13501-1
ISO 1182Incombustible - **EUROCLASS A1**

WATER ABSORPTION

NP EN 1609

 $WS \leq 1.00$ kg/m²

WATER VAPOUR DIFFUSION FACTOR

EN 12086

 $\mu = 1.30$ **TERMOLAN**

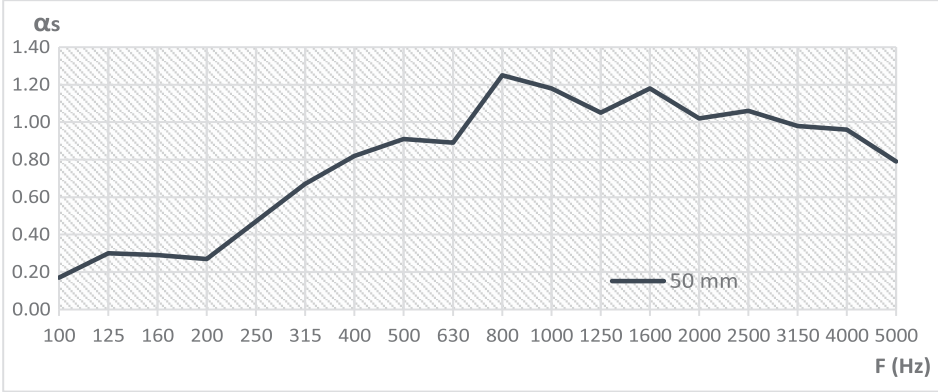
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PHYSICAL PROPERTIES OF MATERIALS

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s	0.17	0.30	0.29	0.27	0.47	0.67	0.82	0.91	0.89
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s	1.25	1.18	1.05	1.18	1.02	1.06	0.98	0.96	0.79



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]	≥ 10 kPa
COMPRESSIVE STRENGTH, σ_{10} [NP EN 826]	≥ 60 kPa
POINT LOAD [EN 12430]	≥ 450 N

DETAILS OF APPLICATION

