

COBERLAN POWER+

DOP 111

MW - EN 13162 - T5 - CS(10)30 - TR7,5 -
PL(5)450 - WS



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.

APPLICATIONS:

Thermal and acoustic insulation solutions recommended for inaccessible flat roofs (steel decking and concrete) specially designed to function as a waterproofing support, with class B of compressibility. Product not recommended for application of solar panel systems.

BENEFITS:

- Easy and quick application;
- High insulation performances (high yield);
- 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]
100 to 180	1200x1000

Tolerances:

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

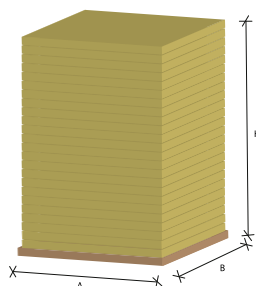
LENGTH: ±2 %

WIDTH: ±1.5 %

^{a)} Is valid the greatest numerical tolerance

PACKAGING:

Slabs over pallets packed in retractile plastic. Geometry (AxBxH):



PHYSICAL PROPERTIES OF MATERIALS

THERMAL RESISTANCE, R_D

EN 12667
EN 12939

THICKNESS (mm)	100	105	110	115	120	125	130	135
R_D (m ² .K/W)	2.85	3.00	3.10	3.25	3.40	3.55	3.70	3.85
THICKNESS (mm)	140	145	150	155	160	165	170	175
R_D (m ² .K/W)	4.00	4.10	4.25	4.40	4.55	4.70	4.85	5.00
THICKNESS (mm)	180	185	190	195	200	205	210	215
R_D (m ² .K/W)	5.10	5.25	5.40	5.55	5.70	5.85	6.00	6.10
THICKNESS (mm)	220	225	230	235	240			
R_D (m ² .K/W)	6.25	6.40	6.55	6.70	6.85			

THERMAL CONDUCTIVITY, λ_D

EN 12667
EN 12939

Declared value: $\lambda_D = 0.035$ 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

$\mu = 1$

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

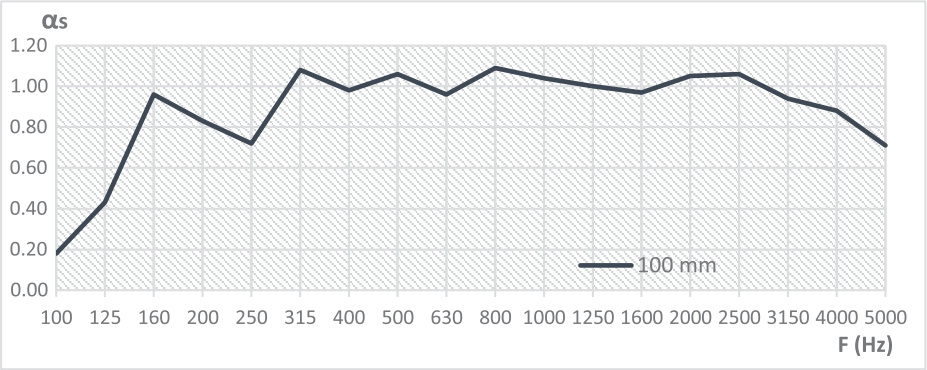
ESPOSOR 100 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	α_s	0.18	0.43	0.96	0.83	0.72	1.08	0.98	1.06	0.96
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	α_s	1.09	1.04	1.00	0.97	1.05	1.06	0.94	0.88	0.71



PHYSICAL PROPERTIES OF MATERIALS

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354



EQUIVALENT ABSORPTION COEFFICIENT, α_w

EN ISO 11654

$\alpha_w = 1.00$ CLASS A

OTHER PROPERTIES

SQUARENESS [NP EN 824]	Deviation length / width < 3mm / slab
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]	≥ 7.5 kPa
COMPRESSIVE STRENGTH, σ_{10} [NP EN 826]	≥ 30 kPa
POINT LOAD [EN 12430]	≥ 450 N
CLASS OF COMPRESSIBILITY [Guide UEATC]	Class B 

DETAILS OF APPLICATION

