

DRVOLIT D



Product description:

Light construction plate made of mineralised wood-wool (WW), which, together with cement binder and additives is made up into a compact unit. By the process of mineralization, the fire resistance of wood wool increases greatly. Due to its porous internal structure and the shape of the surface it is an excellent insulator for noise protection systems.



Characteristics:

- Thermal conductivity : $\lambda_D = 0,074 \text{ W/m}\cdot\text{K}$
- Good adhesion to concrete and the ideal base for plastering
- Difficult inflammable material: B - s1, d0 after EN 13501-1
- Resistance to aging, chemical effects, parasites and moulds
- Neutrality in combination with building materials and metals
- Good sound absorption and high water vapour permeability
- Very good mechanical properties
- Easy formatting and other processing at installation
- High capacity of maintenance of phase displacement of penetrating heat through the surface of the building

Purpose, use and installation:

- Better acoustic and thermal insulation
- Fire protection of wooden and metal support structures
- Surface for plaster in systems of ventilated facades
- Construction of one- or both-sided cladded wall partitions
- Thermal insulation in insulation systems of pitched-slope roofs (mansards) from the inner or outer side
- Acoustic cladding of walls and ceilings as visible surface of large objects
- Inner and outer cladding of constructions in the construction of wooden houses, insulator and carrier of plasters
- Installation in the method of coated concrete and lost formwork



WW-EN 13168-L1-W1-T1-S2-P1-CS(10)150-BS*-C13

Thickness (mm)	15	20	25	30	35	50	75
BS* (kPa)	1700	1500	1300	1150	1000	700	600

DRVOLIT (Table 1)	D 15	D 20	D 25	D 30	D 35	D 50	D 75
Board format (mm)	2000 x 600						
Board thickness (mm)	15	20	25	30	35	50	75
Average specific mass (kg/ m ²)	8,5	10,0	11,5	13,0	14,5	19,5	28,0
Thermal resistance R _D (m ² K/ W)	0,20	0,25	0,30	0,40	0,45	0,65	1,00
Pallet quantity (pcs/m ²)	110/132	100/120	80/96	70/84	60/72	40/48	28/33,6

Essential Characteristics	Designation	Units	Data							Standard
			15	20	25	30	35	50	75	
Board thickness	d	[mm]	15	20	25	30	35	50	75	EN 13168
Board length	l	[mm]	2000 (1000)							EN 13168
Board width	b	[mm]	600							EN 13168
Tolerance: - Length	L1	[mm]	+5, -10:							EN 822
- Width	W1	[mm]	± 3							EN 822
- Thickness	T1	[mm]	+3; -2 for nominal length $l \leq 1.250$ mm +4; -3 for nominal length $l > 1.250$ mm							EN 822
- Squareness	S1	[mm]	≤ 2							EN 824
- Flatness	P1	[mm]	≤ 6							EN 825
Declared thermal conductivity	λ_D	W/mK	0,074							EN 12667 i EN 12939
Thermal resistance	R_D	m ² K/ W	0,20	0,25	0,30	0,40	0,45	0,65	1,00	EN 12667 EN 12939
Bending strenght	BS	kPa	1700	1500	1300	1150	1000	700	600	EN 12089, A
Compressive strenght at 10% deformat.	CS	kPa	≥ 150							EN 826
Diffusion resistance coefficient	μ		3 - 5							
Chloride content	Cl3	%	≤ 0,06							EN 13168
Reaktion to fire	Class		B.s1, d0							EN 13501-1

Preparation

Before installation, the boards must be dry. We recommend cutting the boards to the size of 1000×600 mm (using an electric circular saw or manual saw). The base should be level and free from dust or discrete particles.

Wall and Ceilings Lining

The boards are glued to the base by construction adhesive (e.g. STIROLIM, to be applied in strips at the edge of the board and dots in the middle of the board) and, in addition, mechanically fixed (polyamide anchors with galvanized steel bolts; 6 to 8 pcs/m² are needed).

An efficient, cost-effective and well-known installation method is also fixing of KOMBI boards by concrete in the manner of lost formwork. Concreting anchors (SPK KOMBI) of appropriate length are inserted in the board, and then the boards are laid on the formwork tightly fitting each other. Reinforcing mesh is then laid on the boards; it is recommended to use spacers. The following step is concrete pouring. The formwork is simple to remove since it is in no contact with concrete, while the boards are joined by concrete across their entire surface. Further treatment of the boards (rendering, painting, etc.) is possible, but even untreated boards are durable and of pleasant appearance.

Storage

The boards are packed on wooden pallets; the quantities are specified in the table. They are stored in covered premises, protected against humidity and direct sunlight. Without their original packaging the boards are stored in horizontal position on a flat surface, and carried around in vertical position (usually by the edge of the longer side).

The product is in compliance with the requirements: HRN EN 13168 : 2012 + A1 : 2015



- Initial testing report (ITT), INSTITUT IGH d.d. Zagreb, HR
- Initial testing report (ITT), L1-04-033, izdao FIW München,
- Test report, Magistrat der Stadt Wien, No.: MA 39 - VFA 2015-0288.01.
- Declaration of performance Nr. CPR-DoP-TI 001- Rev 5 in accordance with REGULATION (EU) No: 305/2011

This product is FSC 100 % certified.