

TECHNICAL DATA SHEET

DRVOLIT AKUSTIK DA (1,5 mm – NATURAL & WHITE)

Thermal insulation product with improved sound absorption capacity



The mark of responsible forestry

Product description:

A lightweight single-layer construction panel made of mineralized wood wool (WW), which is connected to a compact unit with a cement binder and additives. With the mineralization process, the fire resistance of the wood wool is significantly increased. Due to its porous internal structure and relief surface, it is an excellent insulator in noise protection systems.



Product characteristic:

- Excellent sound absorption and reduction of reverberation time
- Thermal conductivity: $\lambda_D = 0,083 \text{ W/m}\cdot\text{K}$
- Good adhesion with concrete
- Reaction to fire: class B-s1,d0 according to EN 13501-1
- Resistance to aging, chemical influences, pests and moulds
- Neutrality in contact with building materials and metals
- Very good mechanical properties
- High vapour permeability
- Simple formatting and other processing during installation
- Pleasant and natural appearance

Purpose, use and installation:

- Improvement of sound and thermal insulation
- Fire protection of wooden and metal load-bearing structures
- Construction of partition walls coated on one side and on both sides
- Thermal insulation in insulation systems of pitched roofs (attics) from the inside or outside
- Acoustic cladding of walls and ceilings as a visible surface
- Internal and external cladding of the structure in the construction of wooden houses
- Installation with subsequent cladding



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Designation code:

WW-EN 13168-L4-W2-T2-S2-CI3-CS(10)300

Product label		DA (1,5 mm – NATURAL & WHITE)	
Thickness – d_N	mm	25	
Length × width	mm	1200 × 600	
Mass per unit area ¹	kg/m ²	10,6	
Quantity on the pallet ²	PCS	80	
	m ²	57,6	

¹Tolerance: (-5, +20) % | ²Pallet dimensions: 630 × 2400 mm

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Essential characteristic	Symbol	Unit	Value	EN method
Thickness	d _N	mm	25	EN 13168
Thermal conductivity	λ _D	W/m·K	0,083	EN 12667 EN 12939
Thermal resistance	R _D	m ² ·K/W	0,30	EN 12667 EN 12939
Heat transfer coefficient	U	W/m ² ·K	2,122	EN ISO 6946
Length ^A	L4	mm	± 1	EN 822
Width ^A	W2	mm	± 1	EN 822
Thickness ^A	T2	mm	± 1	EN 823
Squareness	S2	mm/m	≤ 2	EN 824
Chloride content	Cl3	%	≤ 0,06	EN 13168
Reaction to fire	-	-	B-s1,d0	EN 13501-1
Compressive strength	CS(10)300	kPa	≥ 300	EN 826
Resistance to ball impact	1A			EN 13964
Release of asbestos	no content			EN 13964
Release of formaldehyde	E1			
Flexural tensile strength	Class D no load			
Durability exposure	Class D			

^APossible deviation

* Sound absorption coefficient – α _w (EN ISO 354):	
Directly on the substrate	0,35 [D]
With 30 mm spacing from the substrate, without filling	0,50 [D]
With 30 mm spacing from the substrate, with filling (MW)	0,90 [A]

*Ceiling installation (other applications in technical documentation)

Preparation

The panels must be dry before installation. Likewise, the panels need to be acclimatized for at least a week. If necessary, we recommend sawing the panel using an electric circular or manual saw. The surface on which they are installed must be flat, solid, free of dust and loose particles.

Cladding of walls and ceilings

- by direct fastening with screws (AKU S) to the load-bearing substructure made of wood or galvanized metal profiles
- by direct fastening to the substrate (reinforced concrete substrate – DDS-Z screws, brick - PS KOMBI fasteners). If it is necessary to level the surface less, the panels can be glued to the surface with construction adhesive in a strip application along the edge of the panel and in dots in the middle, but only as an additional and optimal fastening element that does not exclude mechanical fastening with anchors.
- by installing in a suspended ceiling system with T-profiles; easy panel replacement

Advice on the type and consumption of fasteners and installation methods can be found in our Installation Manual. The external, visible surface of the panels can be painted according to the project requirements after installation.

Factory-made processing options

- width of wood wool fibers: 1,5 mm
- format: 1200 × 600 mm
- cement color: natural
- coloring of one (visible) side: white
- edge processing: bevel 5 mm / 45°
- rabbet joint: without rabbet

Warning for the color tone of unpainted panels

The panels are produced with wood from responsibly managed forests. Wood has its own natural characteristics that affect the final natural color of the produced panels, namely its color tone, the conditions in which the tree grew, moisture content, and the time when the trees were felled. However, this does not affect the final quality of the panels. The final natural color of the panels also depends on the production conditions and their drying. In other words, there is no complete uniformity of color tone between the panels, but if it is important, then we recommend painting the panels in the natural color of the panel or in another color (at our factory or after installation).

Safety

The installation of panels should be entrusted to a professionally trained person with the use of protective equipment.

Storage

The panels are packed and delivered on pallets; the quantities are specified in the table on the first page. They should be stored in covered premises and protected against humidity and direct sunlight. The panels on the pallet are stacked in a horizontal position on a flat surface and they should be carried around in a vertical position (usually by the edge of the longer side).

Waste management

The waste generated during the application of the product, including the packaging in which it is packed, must be disposed of in accordance with your country's waste management laws and regulations .

Key waste number: (according to Commission Decision 2014/955/EU)

- wood wool waste – 17 06 04 – „insulation materials other than those mentioned in 17 06 01 and 17 06 03“
- cardboard – 15 01 01 – „paper and cardboard packaging“
- wrapping foil, plastic wrapping tape, plastic corners – 15 01 02 – „plastic packaging“
- pallets – 15 01 03 – „wood packaging“

Expiration date

Unlimited with proper storage and installation.

Certificate

The product complies with the requirements of: HRN EN 13168:2015 (EN 13168:2012+A1:2015).

- 0615 – Bureau Veritas Certification
- Declaration of Performance No DoP-WW-012/25-2, in accordance with Regulation (EU) No 305/2011



The quality and environmental management systems comply with EN ISO 9001 and HRN EN ISO 14001.

The product is FSC 100 % certified.