DRVOLIT AKUSTIK DA

Product description:

Light construction plate made of mineralised wood-wool with a specific fine structure that together with cement binder and additives makes up 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. During the manufacturing process the appearance of the surface is accurately controlled, because the boards stay visible after installation.

Characteristics:

- Excellent sound absorption and reduction of reverberation time
- Thermal conductivity : λ_D =0,074 W/m·K
- Good adhesion to concrete
- 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
- Very good mechanical properties
- High vapour permeability
- Easy formatting and other processing at installation
- Pleasant and natural look

Purpose, use and installation:

- Acoustic cladding of walls and ceilings in order to reduce noise levels and reduce reverberation time in sports facilities, office buildings, concert halls, theatres, recording studios, catering facilities, production halls, garages, shooting ranges, ...

CE

WW-EN 13168-L1-W1-T1-S1-P1-CS(10)150-BS*-CI3

Thickness	(mm)	25	35	50
BS*	(kPa)	1300	1000	700

DRVOLIT AKUSTIK (Table 1)		DA 25	DA 35	DA 50
Board format	(mm)		1000 x 600	
Board thickness	(mm)	25	35	50
Average specific mass	(kg/ m^2)	11,50	14,50	19,50
Thermal resistance R_D	(m^2K/ W)	0,30	0,45	0,65
Pallet quantity	(pcs/m^2)	80 / 96	60 / 72	40 / 48

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Essential Characteristics	Designation	Units	Data			Standard
Board thickness	d	[mm]	25	35	50	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 za l ≤ 1.250 mm +4; -3 za l > 1.250 mm			EN 822
- Squareness	S1	[mm]	≤ 4			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^2K/W	0,30	0,45	0,65	EN 12667 EN 12939
Bending strenght	BS	kPa	1300	1000	700	EN 12089, A
Compressive strenght at 10% deformat.	CS	kPa	≥ 150			EN 826
Diffusion resistance coefficient	μ		6		4	
Cloride content	Cl3	%	≤ 0,06			EN 13168
Reaction to fire	Class		B.s1, d0			EN 13501-1
Sound absorbption coef : 1. Directly on the substrate 2. With spacing 75mm of the substrate, without filling 3. With spacing 75mm of the substrate with infill (MW)	 Class D Class D Class A		 α_w = 0,30 α_w = 0,50 α_w = 0,95			 EN ISO 11654:1993/A1

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

DRVOLIT AKUSTIK DA boards are installed:
- Directly on the substrate
- With spacing 75mm of the substrate, without filling
- With spacing 75mm of the substrate with infill (MW)

Safety

The boards should be installed by a professionally qualified person. The use of prescribed protection equipment at work is mandatory.

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).

Shelf life: Not limited with proper storage **DRVOLIT AKUSTIK DA** boards**.**

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
- Test report No.: B13.500.001.355, B13.500.005.355, B13.500.009.355, Technische Universität,Labor für bauphysik, Graz, Austria
- Declaration of performance Nr. CPR-DoP-TI 002- Rev 2 in accordance with REGULATION (EU) No: 305/2011