



Tektalan[®] A2-E31-035/2

Two-layer Wood Wool insulation board



Description of Product:

- Two-layer Wood Wool insulation board with mineral-bonded non-flammable Wood Wool cover layer, 10 mm thick, fibre width 2 mm and non-flammable Rock Mineral Wool board with glasveil
- Bevelled edge on all sides.
- White collared (similar to RAL 9010) or nature

Purpose of use:

- Thermal insulation of walls, ceilings and supporting beams
- For fixing afterwards

Advantages:

- Improvement of thermal insulation, fire protection, sound absorption
- Fire resistance REI 120
- Diffusionopen
- Suitable for underground car parks
- Mechanically loadable surface
- Quick and simple installation

Note:

- Fixing with Heraklith concrete screws DDS plus or BTB or BTW
- Please observe the relevant processing guidelines. In addition, the relevant standards and the recognised rules of technology apply.

Technical data

Thickness	mm	50	75	100	125	150	175
Layer structure	mm	10/40	10/65	10/90	10/115	10/140	10/165
Weight	kg/m ²	11,0	14,0	17,0	19,5	22,5	25,5
Length	mm	1000					
Width	mm	600					

Form of delivery: palletised

Characteristics	Symbol	Description / Data						Unit	Standard	Level acc. EN 13168
Fire behaviour	--	A2-s1, d0						--	EN 13501-1	
Nominal thermal conductivity	λ_D	Mineral-bonded Wood Wool cover layer, 10 mm: 0,070 Rock Mineral Wool: 0,034						[W/mK]	EN 13168 EN 13162	
Thickness	d	50	75	100	125	150	175	[mm]	EN 13168	
Nominal thermal insulation resistance	R _D	1,30	2,05	2,75	3,50	4,25	5,00	[m ² K/W]	EN 13168	
Lambda value ¹⁾	λ	0,038	0,037	0,036	0,035	0,035	0,035	[W/mK]		
Compressive stress with 10% crushing	σ_m	≥ 30						[kPa]	EN 13168	CS(10/Y)30
Tensile strength normal to the board surface	σ_{mt}	≥ 7,5						[kPa]	EN 13168	TR7,5
Width tolerance		± 3						[mm]	EN 13168	W1
Thickness tolerance		+ 3 / -2			+ 4 / -3			[mm]	EN 13168	T1
Water vapour diffusion resistance coefficient	μ	Wood Wool cover layer: 5; Rock Mineral Wool: 1						--	EN 12086	

¹⁾To simplify calculation, the λ -value is calculated for the individual product thicknesses.

Sound absorption coefficient ¹⁾	F(Hz)	125	250	500	1000	2000	4000	α_{av}	Class of absorption	NRC	SAA
Tektalan A2-E31-035/2, 50 mm	α_s	0,24	0,79	1,03	1,01	0,97	0,76	0,95	A	0,95	0,95
Tektalan A2-E31-035/2, 75 mm	α_s	0,58	0,84	0,99	1,01	0,97	0,79	0,95	A	0,95	0,96
Tektalan A2-E31-035/2, 100 mm	α_s	0,73	0,74	0,93	0,99	0,99	0,85	1,00	A	0,90	0,93
Tektalan A2-E31-035/2, 125 mm	α_s	0,72	0,71	0,96	1,00	1,01	0,89	1,00	A	0,90	0,93

¹⁾ lying on underground

Knauf Insulation Rock Mineral Wool fibres are not hazardous to health. This is guaranteed by the RAL seal of quality.



Institut für Bauen und Umwelt e. V.

Sale via the specialist trade.

The values in this product data sheet correspond to the present state of development of our products and become invalid on the publication of a new version. Always make sure that you use the latest version of this information. The suitability of the product is not binding for individual cases of a special nature. Our General Terms of Sale, Delivery and Payment apply exclusively. All data are included without warranty. We reserve the right to make modifications.

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