



Tektalan[®] A2-SD

Three-layer Wood Wool insulation board



Description of Product:

- Three-layer Wood Wool insulation board with 2 mineral-bonded non-flammable Wood Wool cover layers, each 5 mm thick, fibre width 2 mm and insulation core made from non-flammable Rock Mineral Wool laminated board
- 15 mm stepped profile on all sides

Purpose of use:

- Thermal insulation of walls, ceilings and supporting beams
- For concreting in

Advantages:

- Improvement of thermal insulation, fire protection, sound absorption
- Fire resistance REI 180
- Diffusionopen
- Suitable for underground car parks
- Mechanically loadable surface
- Quick and simple installation
- Long term use

Note:

- If the insulating board is to be subsequently plastered, at least 8 Heraklith stainless steel anchors must be used for each board as an additional bonding aid
- For the application "concreted in and plastered", the rules of construction physics must be observed
- For concreting on soaked boards or in case of rain and/or incorrect installation, penetration of concrete sludge cannot be ruled out
- For boards thicker than 175 mm, additional bonding aid with stainless steel anchors (6 x per board, non-plastered)
- Installed area: 1,16 m².
- 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	5/40/5	5/65/5	5/90/5	5/115/5	5/140/5	5/165/5
Weight	kg/m²	12,0	15,0	18,5	21,5	24,5	27,5
Length	mm	2000					
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 5 mm: 0,070 Rock Mineral Wool: 0,039						[W/mK]	EN 13168	
Thickness	d	50	75	100	125	150	175	[mm]	EN 13168	
Nominal thermal insulation resistance	R_D	1,15	1,80	2,45	3,05	3,70	4,35	[m²K/W]	EN 13168	
Lambda value ¹⁾	λ	0,043	0,041	0,041	0,040	0,040	0,040	[W/mK]		
Compressive stress with 10% crushing	σ_m	≥ 50						[kPa]	EN 13168	CS(10/Y)50
Compressive stress with 4% crushing	σ_4	≥ 20						[kPa]	EN 13168	
Tensile strength normal to the board surface	σ_{mt}	≥ 15						[kPa]	EN 13168	TR15
Width tolerance		± 3						[mm]	EN 13168	W1
Thickness tolerance		+ 3 / -2			+ 4 / -3			[mm]	EN 13168	T1
Water vapour diffusion resistance coefficient	μ	2	2	2	1	1	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_w	Class of absorption	NRC	SAA
Tektalan A2-SD, 50 mm	α_s	0,38	0,67	0,82	0,77	0,79	0,78	0,80	B	0,75	0,77
Tektalan A2-SD, 75 mm	α_s	0,58	0,63	0,81	0,90	0,96	0,93	0,90	A	0,85	0,84
Tektalan A2-SD, 100 mm	α_s	0,68	0,72	0,91	0,93	0,95	0,83	0,95	A	0,90	0,89
Tektalan A2-SD, 125 mm	α_s	0,77	0,75	0,97	1,00	1,05	0,92	1,00	A	0,95	0,96

¹⁾ lying on underground

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

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.
Stand: 04/2014 li-jb (ersetzt 07/2013 li-jb)

Heraklith® is registered trademark of **KNAUF INSULATION**



Institut für Bauen und Umwelt e. V.

Knauf Insulation GmbH
Industriestraße 18
A-9586 Fürnitz
Telefon +43 4257 3370-0
Telefax +43 4257 3370-2300
www.knaufinsulation.at