KNAUF INSULATION

Heraklith® Tektalan A2 SmartTec

March 2025

Build on us.

Description

Heraklith® Tektalan A2 SmartTec is a cement-bonded wood wool panel combined with a rock mineral wool insulation slab, used for the thermal & acoustic performance and the decorative finish of structural soffits.

It is non-combustible with a Euroclass A2-s1, d0 reaction to fire classification and can provide a fire resistance of up to 180 minutes to concrete floors.

Benefits

- Available as standard in nature tone
- Aesthetically pleasing; finished with bevelled edges.
- Manufactured from mineral wool which provides the best levels of sound absorption and reduction compared to other mainstream insulants.
- Quick installation on site as only 2 fixings required per panel (where the overall thickness is greater than 100mm)*.
- Can be used as a solution in structural soffits.

** If fire resistance is required, 5 fixings need to be used*

NON-COMBUSTIBLE INSULATION

Heraklith® Tektalan A2 SmartTec

Technical Specifications

HERAKLITH® TEKTALAN A2 SMARTTEC

Thickness (mm)	**Composition** mm (WW/MW)	**R_D** (m^2K/W)	**Weight** (kg/m^2)	**Length** (mm)	**Width** (mm)	**Panels Per Pallet**	**Pallet** (m^2)	**Pallet product code**
225	10/215	6.40	28.50	1000	600	5	3.00	743516
200	10/190	5.65	25.00	1000	600	5	3.00	743515
175	10/165	4.95	22.50	1000	600	6	3.60	743514
150	10/140	4.20	20.00	1000	600	7	4.20	743513
125	10/115	3.45	17.50	1000	600	8	4.80	743512
100	10/90	2.75	16.00	1000	600	11	6.60	743511
75	10/65	2.00	13.00	1000	600	14	8.40	743510
50	10/40	1.25	11.50	1000	600	22	13.20	743507

Standard thickness.

All dimensions are nominal.

Heraklith® Tektalan A2 SmartTec

- <100mm – 4 fixings per slab
- >100mm – 2 fixings per slab
- All thicknesses – 5 fixings if REI180 fire resistance is required

SOUND ABSORPTION COEFFICIENT*

Panel type	**Frequency** (Hz)	**125**	**250**	**500**	**1000**	**2000**	**4000**	**Alpha w**	**NRC ****	**Absorption Class**
Heraklith® Tektalan A2 SmartTec [2mm], 50mm	αs (1/1 octave)	0.20	0.70	1.00	1.00	0.80	0.60	**0.80**	0.90	0.89
Heraklith® Tektalan A2 SmartTec [1mm], 50mm	αs (1/1 octave)	0.25	0.75	1.00	1.00	0.95	0.80	**0.95**	0.95	0.94

Sound absorption tests have been executed in accordance with the norm ISO 11654/ ASTM-C423.

** Mounted directly to concrete.*

*** Noise Reduction Coefficient.*

Heraklith® Tektalan A2 SmartTec

Performance

THERMAL (W/mK)

0.034	0.095
Mineral Wool	Wood Wool

A1	A2-s1, d0	B	C	D	E	F

Euroclass reaction to fire classification

SOUND ABSORPTION

Alpha w: max 1.00

Applications

Structural soffit floors

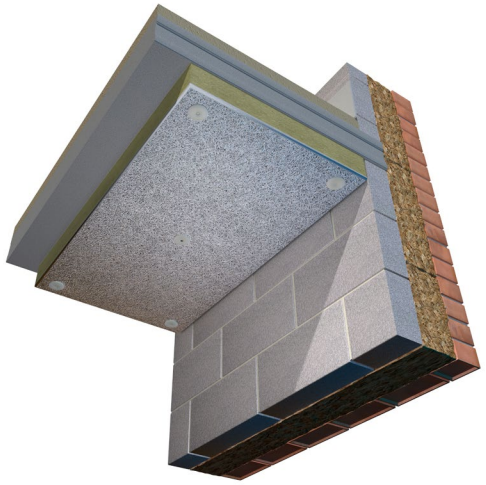
Internal walls

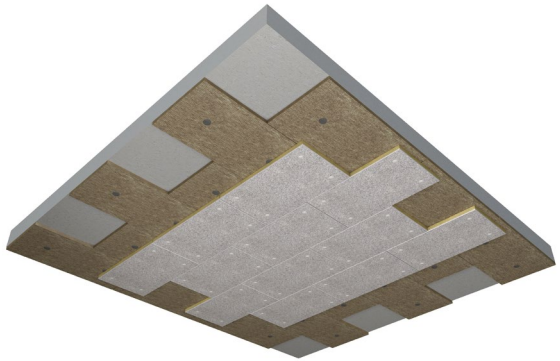
Certification, accreditations and industry standards

CE

EPD®
THE INTERNATIONAL EPD® SYSTEM

Typical Build-Up





Heraklith® Tektalan A2 SmartTec

Application

Heraklith® Tektalan A2 SmartTec is used specifically developed for the thermal insulation, acoustic performance and decorative finish of walls and ceilings , and is a suitable solution for structural soffit applications. Heraklith® Tektalan A2 SmartTec is non-combustible with a Euroclass A2-s1, d0 reaction to fire classification.

Heraklith® Tektalan A2 SmartTec can be used in conjunction with Rocksilk® Soffit Linerboard Standard Unfaced to form a dual-layered solution for insulation thicknesses up to 300mm.

Standards and certification

The rock mineral wool element of Heraklith® Tektalan A2 SmartTec is manufactured in accordance with BS EN 13162, ISO 50001 Energy Management Systems.The wood wool element is manufactured in accordance with EN 13168:2012+A1WW-EN 13168-L2-W1-T1-S2-P2-CS(10/Y)200-Cl3, ISO 50001 Energy Management Systems, ISO 14001 Environmental Management Systems, ISO 45001 Occupational Health and Safety Management Systems and ISO 9001 Quality Management Systems.

Thermal Modelling

The U-value of a proprietary built element (rainscreen façade/ masonry cavity wall/garage soffit etc.) or system is dependent on the material properties and the degree of thermal bridging in the system.

Calculations should be created using 2D or 3D modelling programs which comply with the methodologies detailed in BS EN ISO 6946 or BS EN ISO 10211 and using guidance from BR443.

We offer simplified calculations to BS EN ISO 6946 and where required numerically modelled U-value calculations using software that is compliant with BS EN ISO 10211.

System Testing

Knauf Insulation maintains declared product characteristics and qualities which are defined in detail in its Declaration of Performances (DoPs) and product literature. The product literature also includes information relating to Knauf Insulation's requirements and recommendations for installation of its products when being used as part of a system. Any party using, or planning to use, our products in a system (with or without system testing) where performance may be dependent on product characteristics not declared on our DoPs or our product literature, must contact our Technical Service Team.

Knauf Insulation will not accept liability for any failure in system performance due to product characteristics not declared on DoPs or product literature, or not agreed in a Service Level Agreement.

In such an event, any warranty given in relation to those products will be invalidated.

Real Performance

Glass and rock mineral wool are easier to install correctly than other insulants, such as rigid boards, because they adapt to any slight imperfections in the substrate and knit together, eliminating any air gaps. Mineral wool is engineered to adapt to any imperfections, and any settlement/movement over time, so it maintains close contact and preserves thermal performance for the life of the building.

Evidence shows the absence of air gaps is crucial to achieving real performance in the relevant application. Any insulation material that doesn't deliver 'as-built' thermal performance is failing in its primary purpose, and therefore presents an unnecessary risk as the construction industry seeks to close the performance gap.

Durability and Fitness for Use

Heraklith® Tektalan A2 SmartTec is odourless, rot proof, non-hygroscopic, don't sustain vermin and will not encourage the growth of fungi, mould or bacteria. The product will have a life equivalent to that of the structure in which it is incorporated.

Sustainability

The overall environmental performance of our products is reported in their EPDs (Environmental Product Declarations), in accordance to ISO 14025, ISO 21930,EN 15804 +A2. EPDs are available to download on our website for relevant products.

Handling & Storage

Heraklith® Tektalan A2 SmartTec should be stored properly and handled in such a way as to ensure that the product remains clean and undamaged.

The shrink-wrapped pallets used for the supply of Heraklith® Tektalan A2 SmartTec is designed for short-term protection only. For longer term protection on site, the product should either be stored indoors or under cover and off the ground. Heraklith® Tektalan A2 SmartTec should not be left permanently exposed to the elements.

If the main hood is removed or damaged, the panels shoul d be kept under cover indoors or protected from the elements by a weatherproof cover. In coastal locations where weather is more extreme and bird damage is more common, use additional covering or store indoors.

The product must be protected from prolonged exposure to sunlight, and stored dry and flat.

Heraklith® Tektalan A2 SmartTec is easy to handle; care should be exercised to avoid crushing its edges or corners. If damaged, the product should be discarded. Damaged, contaminated or wet products must not be used.

During construction exposed areas of panels should always be covered at the end of a day's work or in heavy rain. Polyethylene covers should be used to provide protection and prevent work from becoming saturated.

Knauf Insulation Ltd
Stafford Road, St.Helens, Merseyside, WA10 3LZ Customer Service: 01744 766 766

KINE4791DAT-V0325

Build on us.