

# TEKTALAN A2 SMARTTEC


With Tektalan A2 SmartTec we optimized the two layer combination of wood wool with rock mineral wool. The result is a lighter insulation board with an outstanding performance on fire resistance. While mounting with less fixings we ensure maximum fire resistance. International fire tests prove that concrete floors covered with Tektalan A2 SmartTec panels, can provide a fire resistance of 180 minutes\*. The panels work as a heat shield, ensuring the integrity of the structure for a longer period in the event of a fire.



## STANDARD VERSION

The Tektalan A2 SmartTec board is produced with PEFC certified wood and a fibre width of 2 mm as standard. The panels are factory finished with a nature tone colour spray and beveled all round.


## PERFORMANCE

 **Fire classification**  
A2-s1, d0



 **Sound absorption**  
 $\alpha_w$  max 1.00



 **Thermal resistance**  
 $R_D$  max. 6.40



When fire resistance is not required, you can mount Tektalan A2 SmartTec of 100 mm thickness or more with 2 fixings

\* Provided they are processed against solid concrete according to report 20859/20860 in accordance with European norm EN 1365-2 / EN 13501-2

## ADVANTAGES

- ✓ Quick installation, standard mounting against concrete with 2 fixings and if fire resistance is required with 5 fixings.
- ✓ Outstanding acoustic performance.
- ✓ Excellent fire resistance (up to 180 minutes).
- ✓ A2 reaction to fire classification, no drop formation and low smoke emissions in case of a fire.

## SPECIFICATIONS

Thickness (mm)	Composition mm [HW/SW]	$R_D$ (m <sup>2</sup> .K/W)	U value (indication) * Fire Resistant (m <sup>2</sup> .K/W)	U value (indication) ** (m <sup>2</sup> .K/W)	Weight (kg/m <sup>2</sup> )	Length (mm)	Width (mm)	Panels/pallet	Pallet (m <sup>2</sup> )
50	10/40	1.25	1.20	1.20	11.50	1000	600	22	13.20
75	10/65	2.00	1.80	1.90	13.00	1000	600	14	8.40
100	10/90	2.75	2.40	2.70	16.00	1000	600	11	6.60
125	10/115	3.45	3.00	3.30	17.50	1000	600	8	4.80
150	10/140	4.20	3.60	4.00	20.00	1000	600	7	4.20
175	10/165	4.95	4.20	4.70	22.50	1000	600	6	3.60
200	10/190	5.65	4.80	5.40	25.00	1000	600	5	3.00
225	10/215	6.40	5.40	6.00	28.50	1000	600	5	3.00

- \* • Calculated according to EPBD  
• Construction: 50 mm screed, 250 mm concrete  
• 5 DDS plus concrete screws per panel

- \*\* • Calculated according to EPBD  
• Construction: 50 mm screed, 250 mm concrete  
• 2 or 4 DDS plus concrete screws per panel (see processing instructions)

### Options

Fibre width	10 mm
Colour	White (RAL 9003) or RAL

Always process our Heraklith wood wool panels according to our processing instructions. These can be found on [heraklith.co.uk/downloads](http://heraklith.co.uk/downloads)



[www.heraklith.co.uk](http://www.heraklith.co.uk)

Wood Wool Panel in accordance with EN 13168:2012+A1  
 WW-C/2-EN 13168-L2/L3-W1/W2-T1-S2-P2-CS(10/Y)20-TR5-CI1

## TECHNICAL INFORMATION

Properties	Symbol	Description					Unit	Norm
Fire class	-	A2-s1,d0*					-	EN-13501-1
Fire resistance	-	REI 120/180 (If treated in accordance with Classification Report no. 20859/20860)					-	EN-13501-2
Thermal conductivity coefficient	$\lambda$ D	Wood wool: 0,095; Rock mineral wool: 0,034					[W/mK]	EN 12667
Compressive strength	CS(10/Y)20	$\geq 20$					[kPa]	EN 826
Chloride concentration	CI	CI1					-	EN 13168
Water vapour permeability	$\mu$	Wood wool: 2/5; Rock mineral wool: 1					-	DIN 4108-4
Tensile strength perpendicular to surface	TR5	$\geq 5$					kPa	EN 13168
Tolerances	-	Thickness (T1)	Length (L2/L3)	Width (W1/W2)	Squareness (S2)	Flatness (P2)	[mm]	EN 13168
		3/-2	$\leq 75$ : +3/-5 100-200: +2/-3 $\geq 225$ : +3/-5	$\leq 75$ : +3 >75: $\pm 1$	$\leq 2$	$\leq 3$		
Edge finishing insulation		Straight edges						
Edge finishing wood wool		Bevelled						
DoP		W4302GPCPR ( <a href="http://www.dopki.com">www.dopki.com</a> )						

\* Mounted directly to concrete

## CERTIFICATIONS



Always process our Heraklith wood wool panels according to our processing instructions. These can be found on [heraklith.co.uk/downloads](http://heraklith.co.uk/downloads)



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Wood Wool Panel in accordance with EN 13168:2012+A1  
WW-C/2-EN 13168-L2/L3-W1/W2-T1-S2-P2-CS(10/Y)20-TR5-C11

## SOUND ABSORPTION COEFFICIENT\*

Panel type	F(Hz)	125	250	500	1000	2000	4000	$\alpha_w$	NRC	SAA
Tektalan A2 SmartTec [2mm], 50mm	$\alpha_s$ (1/1 octave)	0.20	0.70	1.00	1.00	0.80	0.60	<b>0.80</b>	0.90	0.89
Tektalan A2 SmartTec [2mm], 60mm	$\alpha_s$ (1/1 octave)	0.30	0.90	1.00	0.95	0.80	0.60	<b>0.80</b>	0.95	0.89
Tektalan A2 SmartTec [2mm], 75mm	$\alpha_s$ (1/1 octave)	0.55	0.95	0.95	1.00	0.80	0.60	<b>0.80</b>	0.95	0.93
Tektalan A2 SmartTec [2mm], 100mm	$\alpha_s$ (1/1 octave)	0.70	1.00	1.00	0.95	0.80	0.65	<b>0.80</b>	0.95	0.96
Tektalan A SmartTec 2 [2mm], 125mm	$\alpha_s$ (1/1 octave)	0.75	0.95	1.00	1.00	0.85	0.65	<b>0.85</b>	0.95	0.94
Tektalan A2 SmartTec [2mm], 150mm	$\alpha_s$ (1/1 octave)	0.80	0.95	1.00	1.00	0.85	0.70	<b>0.85</b>	0.95	0.95
Tektalan A2 SmartTec [2mm], 175mm	$\alpha_s$ (1/1 octave)	0.75	0.90	1.00	1.00	0.90	0.70	<b>0.85</b>	0.95	0.94
Tektalan A2 SmartTec [2mm], 200mm	$\alpha_s$ (1/1 octave)	0.60	0.80	0.95	1.00	0.95	0.80	<b>0.85</b>	0.90	0.92
Tektalan A2 SmartTec [1mm], 50mm	$\alpha_s$ (1/1 octave)	0.25	0.75	1.00	1.00	0.95	0.80	<b>0.95</b>	0.95	0.94
Tektalan A2 SmartTec [1mm], 60mm	$\alpha_s$ (1/1 octave)	0.30	0.85	1.00	0.95	0.90	0.75	<b>0.90</b>	0.95	0.93
Tektalan A2 SmartTec [1mm], 75mm	$\alpha_s$ (1/1 octave)	0.40	1.00	1.00	1.00	0.95	0.75	<b>0.95</b>	1.00	1.02
Tektalan A2 SmartTec [1mm], 100mm	$\alpha_s$ (1/1 octave)	0.65	1.00	1.00	1.00	0.95	0.85	<b>1.00</b>	1.00	1.03
Tektalan A2 SmartTec [1mm], 125mm	$\alpha_s$ (1/1 octave)	0.75	0.90	1.00	1.00	1.00	0.85	<b>1.00</b>	1.00	0.99
Tektalan A2 SmartTec [1mm], 150mm	$\alpha_s$ (1/1 octave)	0.75	0.90	1.00	1.00	1.00	0.85	<b>1.00</b>	1.00	1.02
Tektalan A2 SmartTec [1mm], 175mm	$\alpha_s$ (1/1 octave)	0.75	0.95	1.00	1.00	0.95	0.80	<b>1.00</b>	1.00	0.99
Tektalan A2 SmartTec [1mm], 200mm	$\alpha_s$ (1/1 octave)	0.60	0.80	0.95	1.00	0.95	0.80	<b>0.95</b>	0.90	0.92

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

\* Mounted directly to concrete

## Do you want more information? Please contact us

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V1-NL 06/2021

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