TAVAPAN

Product Datasheet
Version A, 2025

TAVAPET® pvc

Good value and longevity!

» Very good thermal insulation
» Screwable cover and core layers
» Processable with conventional tools
» Very low weight
» 100% non rotting
» High quality product with long lifetime

Merkmale

Cover layers	PVC panels White with protection film » Weather-resistant » Color corresponding to PVC System
Core layers	PET hard foam made of recycled PET bottles » Water resistant » Frost resistant » Alkali resistant » Ecological » Screwable
Edges	Non treated, raw and untrimmed
Formats	5200 x 1020 mm
Gluing	Water resistant

Characteristics PET core layer

Raw density	ρ_a	80	kg/m³	ISO 845
Compressive strength	σ_{dB}	1	MPa	ISO 844
E-Module	E	20	MPa	ISO 1922
Thermal conduction value	λ_D	0.027	W/(mK)	EN 13162
Diffusion resistance	μ	650	--	EN 12086
Fire resistance class		B2		EN ISO 11925:2
Screw withdrawal resistance	F_{ax}	1240	N	EN 1382

Technical values

Thickness	Cover layers	Thermal value	Acoustic value	Weight
mm	mm	W/m²K	R_w	kg/m²
28	4.0	1.068	32 dB	12.74
36	4.0	0.815	32 dB	13.39
40	4.0	0.729	32 dB	13.72
44	4.0	0.659	32 dB	14.04
70	4.0	0.410	34 dB	16.16
76	4.0	0.374	34 dB	16.64
80	4.0	0.355	34 dB	16.97
82	4.0	0.346	34 dB	17.13
85	4.0	0.333	34 dB	17.37
86	4.0	0.329	34 dB	17.46

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Storage

The TAVAPET elements should be stored dry, at temperatures in the range of 15 - 25 °C and on a flat surface. Protective films must be removed after installation. Surfaces as well as edges must be protected from damage. The goods must be checked upon receipt, defects have to be reported within 3 days.

Screwing

The elements can be mounted by screwing directly into the PET core layer. Still, the following points should be considered:

» No pre-drilling
» No self-drilling screws
» Screw-in depth min. 90 mm if the screw is only anchored in the foam
» Screw diameter min. 6.5 mm
» Screw types: window mounting screws, or similar
e.g. SFS Art Nos. 317177 to 317188

Gluing

Before gluing, the adhesive surface should be cleaned from dirt and dust. It should also be dry and free of grease or oil contamination. We recommend the following types of adhesives:

» SikaFast® 555 - SikaFast® adhesives offer an ideal combination of relatively long open time and fast strength build-up. Just a few minutes after joining, 80% of the final strength has been reached.
» Sikasil® WT-480 - High strength 2-component silicone-based adhesive. Good mechanical properties and adhesion are built within a short time.
» SikaBond® AT-44 R - 1-component, tough-elastic mounting adhesive based on SMP. The same processing guidelines apply as when used with PVC.

Cutting or milling

All TAVAPET products can be processed like conventional wood-based materials.

Cleaning and chemical resistance

For the maintenance of the TAVAPET products, the same measures as for the window frame are needed. Regular care increases longevity and prevents irreversible soiling and loss of shine.
The TAVAPET products (with the exception of TAVAPETwood) are resistant to common materials that occur in construction, such as cement, gypsum and chlorinated lime. They must not be treated with silicone, alcohol, nitric lacquers, paint thinners, strong acids and alkalis and organic solvents.

Connections to sealing membranes

The following FLK liquid plastics are recommended for the jointing of flat roofs:

» Prenopur Decotop type WEF 111, with Prenopur PVC primer
» Prenopur Pumatop type WF 211, with Prenocryl universal primer

The short-term, maximum processing temperature of the TAVAPET elements is 60 °C.

Security and environment

The use of TAVAPET products does not require any special technical protective measures. Any leftover board or packaging material that can not be reused must be disposed of with the plastic waste or returned to the TAVAPAN at its own expense.

Note:

This information is based on the current state of the art. Changes are reserved.

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