

Non-rotting and very stable!

- » Very good thermal insulation
- » Screwable cover and core layers
- » Processable with conventional tools
- » Very low weight
- » 100% non rotting

## Characteristics

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
Edges	On one long side machined with profile
Lenght	Up to 5200 mm without joint. Lenghts more than 5200 mm with Hoffmann jointing pin.
Gluing	Water resistant

## Properties PET core layer

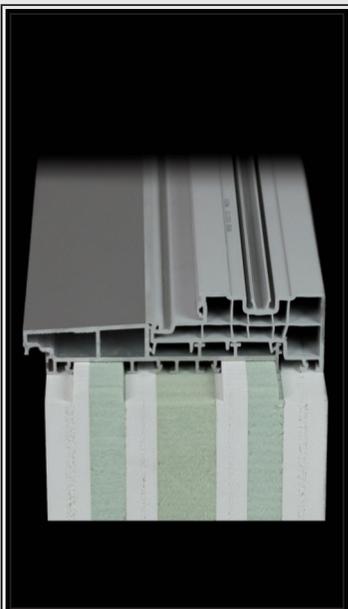
Raw density	$\rho_a$	80	kg/m <sup>3</sup>	ISO 845
Compressive strength	$\sigma_{dB}$	1	MPa	ISO 844
E-Module	E	20	MPa	ISO 1922
Thermal conduction value	$\lambda_D$	0.027	W/(mK)	EN 13162
Diffusion resistance	$\mu$	650	--	EN 12086
Fire resistance class		B2		EN ISO 11925:2
Screw withdrawal resistance	$F_{ax}$	1240	N	EN 1382

## Extension elements on the upside or on the side

Standard length mm	Construction mm	Thermal value W/m <sup>2</sup> K	Acoustic value R <sub>w</sub>	Weight kg/m <sup>2</sup>
5200	PVC 4.0 PET 25 PVC 24 PET XX PVC 24 PET 25 PVC 4.0	~ 0.180	~ 41 dB	~ 35.0

## Threshold elements

Standard length mm	Construction mm	Thermal value W/m <sup>2</sup> K	Acoustic value R <sub>w</sub>	Weight kg/m <sup>2</sup>
5200	PVC 24 PET 25 PVC 17 PET XX PVC 17 PET 25 PVC 24	~ 0.210	~ 44 dB	~ 48.0



## 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<sup>®</sup> 555 - SikaFast<sup>®</sup> 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<sup>®</sup> WT-480 - High strength 2-component silicone-based adhesive. Good mechanical properties and adhesion are built within a short time.
- » SikaBond<sup>®</sup> 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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