



# VEKAPLAN S

Smooth and stable for unlimited applications



 **VEKAPLAN**

Always the ideal solution



# VEKAPLAN – a name that stands for quality, service and sustainability



## Recycling conserves resources

As a family-run company marked by an attachment to values we believe in our responsibility for the natural resources and for sustainable management. This is why the production of our VEKAPLAN sheet systems is designed to be as resource efficient as possible, among other things through comprehensive heat recovery. Furthermore we have implemented a system for the recycling of PVC which allows us to recover the valuable material from old products and to use it again for the production of new high quality sheets. The best example is VEKAPLAN CX, a sheet system with a solid and durable inner core made of recycled PVC.

## Quality is our basic philosophy

As the world market leader for PVC window and door profiles VEKA also stands for an unconditional commitment to the quality of the VEKAPLAN sheet systems. Only products of consistently high quality allow for easy processing and reliably meet all practical requirements. In order to secure this quality we apply strict controls along the entire production chain – from inspection of the delivered raw materials in our own lab through regular colour adjustments to the final checks of our extruded sheets and laminations.



## Service for your success

VEKAPLAN stands for an extensive range of services and high motivation. We maintain long-term business relationships with our partners and provide support in numerous ways. For example we offer comprehensive technical support on all issues regarding applications and the processing of our sheet systems and also by supplying attractive marketing materials. Last but not least we offer very high product availability. As a VEKA partner you enjoy valuable market advantages – we always have an open ear for your individual production requests.

# VEKAPLAN S: The true versatile sheet

VEKAPLAN S is an integral foam sheet made of rigid PVC, which is characterised by its smooth surface and nearly unlimited applications. The sheet, which is made by the Celuka process, has a particularly even inner cell structure. It is very light and at the same time stable enough even for challenging applications.



## Numerous processing possibilities

This high quality PVC sheet VEKAPLAN S can be processed with all commonly used machinery and methods:

- sawing, milling, drilling
- screwing, riveting
- welding, adhesive bonding
- slotting, bending
- screen printing, digital printing
- painting
- laminating



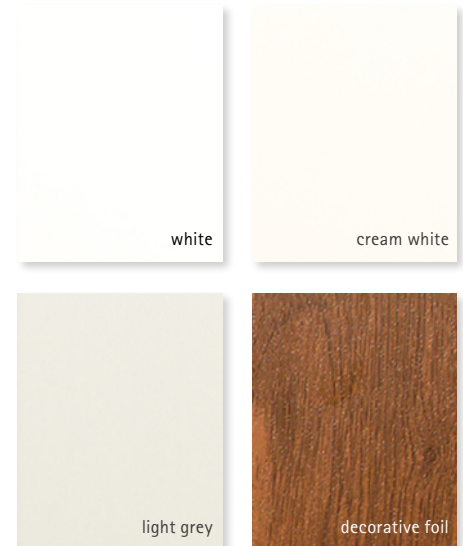
## At a glance

### Colours

- white
- cream white
- light grey
- wood grain foils
- single-colour foils

### Properties

- stable and impact resistant
- sound- and thermal insulating
- colourfast
- weather-resistant
- moisture-resistant
- non swelling
- highly chemical resistant
- recyclable



# A great variety of applications

## Quality is our basic philosophy

VEKAPLAN S, a stable lightweight sheet, is especially suitable for applications in the shipbuilding industry, the caravan industry and for the interior furnishing of vehicles. The great variety of processing methods and its moisture resistance make VEKAPLAN S an attractive choice for furniture manufacturing: Special closed furniture edges make edge bands unnecessary. They keep moisture and dirt from entering and at the same time they are very easy to clean. This makes VEKAPLAN S also suitable for all applications, which require a high degree of hygiene, such as ambulance vehicles and wet rooms.

### Application examples

- ship building
- caravan industry
- vehicle furnishing
- ambulance vehicles
- furniture manufacturing
- clean rooms and wet rooms
- interior and exterior architectural details
- container construction
- exhibition construction
- shop fitting
- slatted roller blind housing
- displays
- signage
- attics
- balcony cladding
- frame panelling
- sales vans
- balustrades
- partitions





# VEKAPLAN S

Also available as VEKAPLAN S-FR:

Quality „flame resistant“ according to EN 13501-1 or BS 476-7 (Class 1) upon request

## Packaging units/ Product range overview

### Colour: white

Celuka PVC sheet, white, protective film on both sides, packed on pallets.

| Thickness (mm) | Dimensions (mm) | Pieces/Pallet |
|----------------|-----------------|---------------|
| 8              | 3000 × 1250     | 60            |
| 10             | 2000 × 1000     | 40            |
|                | 2500 × 1000     | 40            |
|                | 3000 × 1000     | 40            |
|                | 4000 × 1000     | 30            |
|                | 2000 × 1250     | 40            |
|                | 2500 × 1250     | 40            |
|                | 3000 × 1250     | 40            |
|                | 4000 × 1250     | 30            |
|                | 3000 × 1500     | 40            |
|                | 4000 × 1500     | 30            |
|                | 3000 × 2000     | 30            |
|                | 4000 × 2000     | 20            |
| 13             | 3000 × 1250     | 40            |
| 15             | 3000 × 1250     | 30            |
| 17             | 3000 × 1250     | 30            |
| 19             | 2000 × 800      | 34            |
|                | 3000 × 800      | 34            |
|                | 3000 × 1250     | 20            |
|                | 4000 × 1250     | 20            |
| 24             | 3000 × 800      | 26            |
|                | 3000 × 1250     | 20            |
| 30             | 3000 × 1250     | 15            |

### Colour: Cream white (similar to RAL 9001)

Celuka PVC sheet, cream white, protective film on both sides, packed on pallets.

| Thickness (mm) | Dimensions (mm) | Pieces/Pallet |
|----------------|-----------------|---------------|
| 10             | 2000 × 1000     | 40            |
|                | 3000 × 1000     | 40            |
|                | 3000 × 1250     | 40            |
|                | 4000 × 1000     | 30            |
| 13             | 3000 × 1250     | 40            |
| 15             | 3000 × 1250     | 30            |
| 17             | 3000 × 1250     | 30            |
| 19             | 3000 × 1250     | 20            |

Also available: Grey, similar to RAL 7004

Dimensions 3000 × 1250 × 10 mm

### With decorative foil

Celuka PVC sheet, various decors, with protective film on both sides, packed on pallets. Laminated on one or on both sides. Many different decors to choose from. Please contact us!

| Thickness (mm) | Dimensions (mm) | Pieces/Pallet |
|----------------|-----------------|---------------|
| 10             | 3000 × 1250     | 1             |
| 19             | 3000 × 1250     | 1             |
| 24             | 3000 × 1250     | 1             |
| 30             | 3000 × 1250     | 1             |

## Product properties VEKAPLAN S/VEKAPLAN S-FR\*

| Properties  | Standard             | Value                         |                               |           |
|---|----------------------|-------------------------------|-------------------------------|-----------|
| Thickness [mm]  |                      | 8, 10, 13, 15, 17             | 19, 24                        | 30        |
| Density [g/cm <sup>3</sup> ]                          | DIN EN ISO 1183      | 0,43–0,50                     | 0,43–0,50                     | 0,45–0,55 |
| E-modulus [MPa]                                       | ISO 527 (50 mm/min)  | 1050                          | 1050                          | 1050      |
| Impact strength (Charpy) [kJ/m <sup>2</sup> ]         | ISO 179/1eU          | 20                            | 20                            | 20        |
| Tensile strength [MPa]                                | ISO 527 (50 mm/min)  | 11                            | 11                            | 11        |
| Flexural strength [MPa]                               | ISO 178 (2 mm/min)   | 21                            | 21                            | 21        |
| Shore hardness D                                      | ISO 868              | 50–70                         | 60–70                         | 60–70     |
| Surface resistance ROE [Ω]                            | DIN IEC 60167        | 2,00E+14                      | -                             | -         |
| Volume resistance RD [Ω]                              | DIN IEC 60093        | 1,86E+14                      | -                             | -         |
| Dielectric constant ε <sub>r</sub>                    | DIN 53483            | 1,6–1,8                       | -                             | -         |
| Coefficient of expansion [mm/mK]                      | DIN 53752            | 0,06                          | 0,06                          | 0,06      |
| Compressive strength [N/mm <sup>2</sup> ]             | DIN 53421            | 3,5                           | -                             | -         |
| Vicat-softening point [°C]                            | ISO 306 (B50)        | 49                            | 49                            | 49        |
| Heat distortion temperature [°C]                      | ISO 75-2 (1,8 MPa)   | 57                            | 57                            | 57        |
| Water absorption [%]                                  | ISO 62 (after 216 h) | 4,9                           | 4,9                           | 4,9       |
| Water vapour diffusion equivalent- s <sub>d</sub> [m] | DIN 52615            | 157 (at 10 mm)                | -                             | -         |
| Fire rating   | NFP 92-512           | M1 (8, 10, 13 mm)*            | M1 (19 mm)*                   | -         |
|   | DIN EN 13501-1       | class E                       | C - s3 d0<br>„fire resistant“ | class E   |
|   |                      | VEKAPLAN S-FR*                | -                             | -         |
|   |                      | C - s3 d2<br>„fire resistant“ | -                             | -         |
|   | BS 476-7             | Class 1 (10 mm)               | -                             | -         |
|   | NFP 92-512           | M1 (17 mm)                    | -                             | -         |

\*upon request

| Properties                     | Standard      | VEKAPLAN S |       |       |       |       |       |       |  |
|--------------------------------|---------------|------------|-------|-------|-------|-------|-------|-------|--|
| Thickness [mm]                 |               | 8          | 10    | 13    | 17    | 19    | 24    | 30    |  |
| Thermal conductivity [W/(mK)]  | DIN 52612     | 0,049      | 0,051 | 0,053 | 0,057 | 0,060 | 0,062 | 0,067 |  |
| U-value [W/(m <sup>2</sup> K)] | DIN 52612     | 3,0        | 2,8   | 2,4   | 2,2   | 2,0   | 1,8   | 1,6   |  |
| Sound insulation value [dB]    | DIN ISO 717-1 | 26         | 27    | 28    | 30    | 30    | 31    | 32    |  |

---

# What can we do for you?

Quality, trust, security: Based on these principles VEKA has become the world leading manufacturer of PVC profiles for windows and doors. Since 1985 we have been using our PVC expertise also for the production of our first-class VEKAPLAN sheet systems – and have established ourselves as quality supplier also in this segment. You can rely on our commitment: We offer you a wide standard product range as well as customised solutions for your individual projects or complex technical tasks. Please contact us!

**VEKA AG**  
Dieselstr. 8  
D-48324 Sendenhorst  
Tel. +49 2526 29-0  
Fax +49 2526 29-3710

**[www.vekaplan.de](http://www.vekaplan.de)**  
[info@vekaplan.de](mailto:info@vekaplan.de)

Ein Unternehmen der Laumann Gruppe

---

 **VEKAPLAN**

