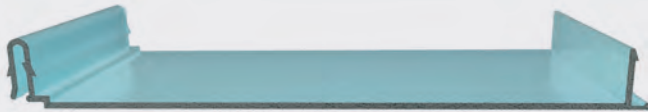


Installation manual

SWP

Scope of delivery

PC Panel SWP



Art.No.: PC 2250-3-T1

Aluminum Fastener

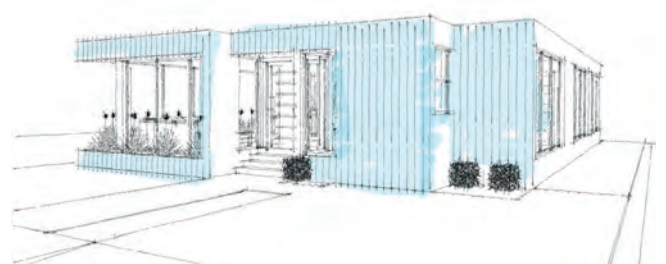
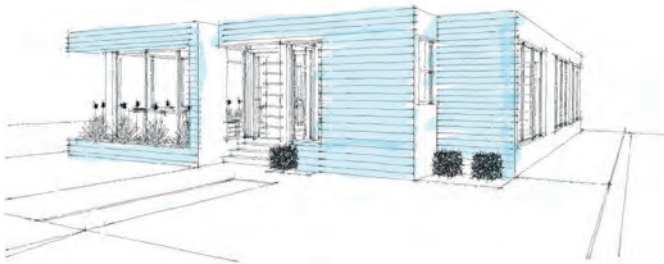


Art.No.: 494005

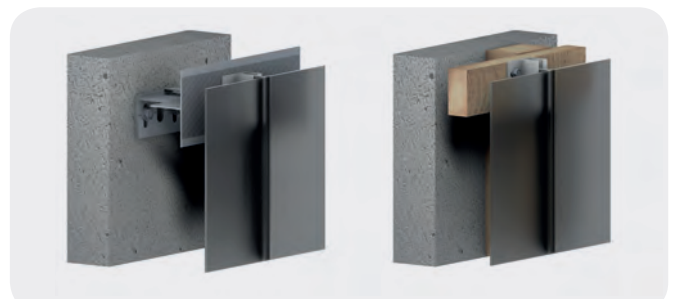
Before installation

Please check the delivery for completeness and observe our general information on storage as well as our assembly instructions!

The scope of delivery of the Rodeca SWP system includes the polycarbonate panels "PC 2250-3-T1" and aluminum fasteners "Art. No.: 494005", which are to be attached to an on site substructure. Depending on the direction of installation, the substructure must be checked for its condition and evenness before installing the panels.



Examples of the substructure of a horizontal installation



Examples of the substructure of a vertical installation

SWP can be installed on almost any substructure. For horizontal installation, the substructure must be arranged vertically; for vertical installation, the substructure must be arranged horizontally. Recommended distances between supports can be found on page 7.

Installation manual

SWP

Horizontal installation



Substructure

The substructure should consist of at least 50 mm wide profiles. The horizontal distance from each other should be between 60-80 cm depending on the wind load (see page 7).



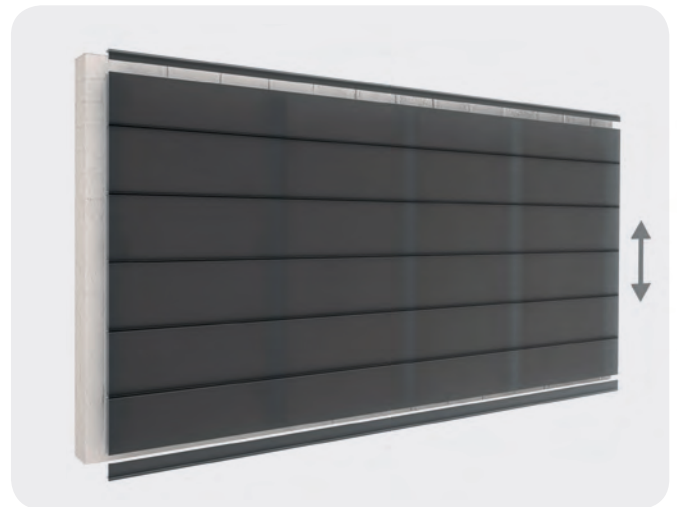
Edge support

To support the PC panels cut lengthwise, a 30 mm thick square tube must be attached at the top and bottom.



Rear ventilation

It is important to ensure that there is sufficient ventilation in the space between the wall and the PC panel.



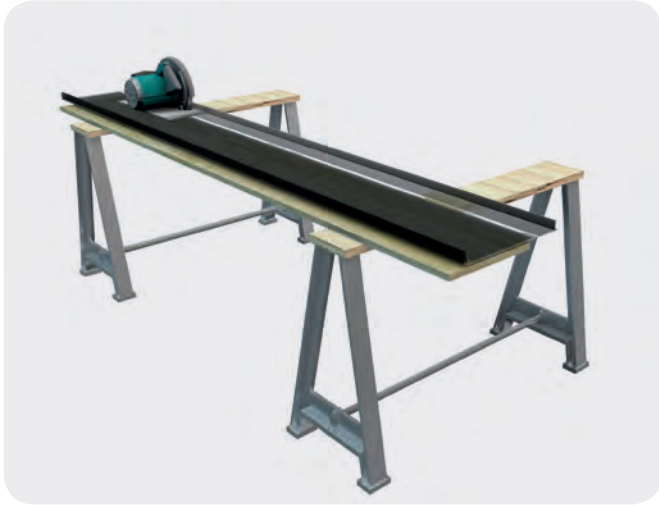
Centering out the PC panels

We recommend centering out the area to be clad before starting installation so that panels of approximately the same width can be installed at the edges.

Installation manual

SWP

Horizontal installation



Cutting the SWP panels

The first and last panels need to be cut. For this purpose, commercially available tools such as jigsaws or circular saws with fine-toothed saw blades or angle grinders with appropriate cutting discs can be used.



Fastening the first panel

The first panel must be aligned horizontally. The suction anchors are pressed onto the groove of the panels until they audibly click into place and then screwed to the substructure. To ensure that the panel is not compressed, the suction anchors must be aligned accordingly.



Assembling the SWP panels

The following panels are pressed into the couplings of the previous ones until the panels are completely connected and firmly seated in the suction anchor. A soft or rubber hammer must be used. Each panel must be attached to the substructure with fasteners as described above.



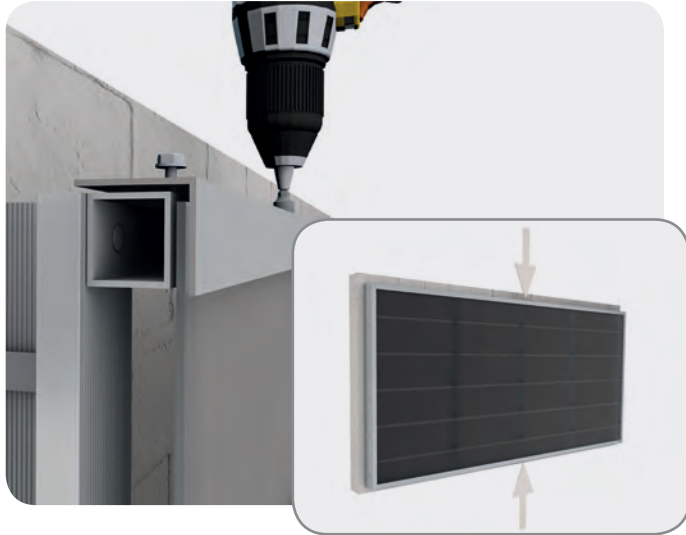
Fastening the last panel

The last panel is to be cut and connected to the previous panel as described previously.

Installation manual

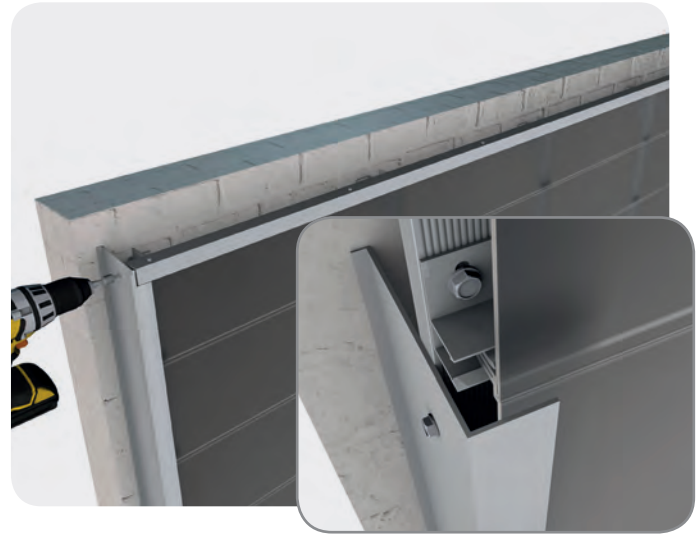
SWP

Horizontal installation



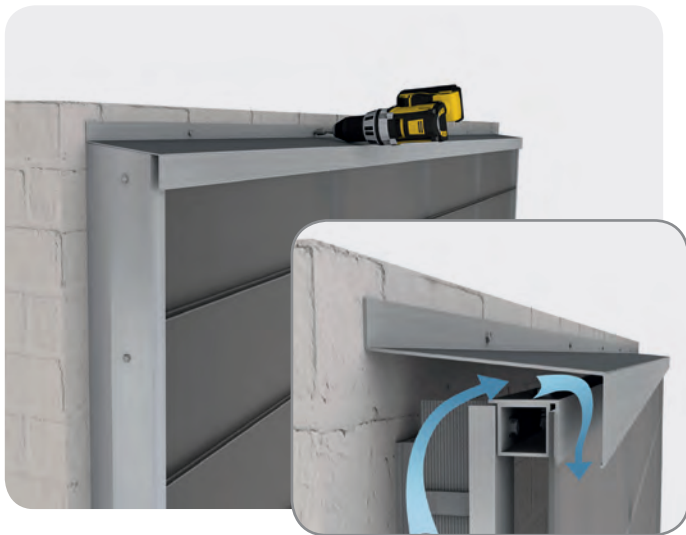
Upper and lower edging

The cut long sides of the panels are to be attached to the square tube using an aluminum angle. It is important to ensure that the clamped panel can expand unhindered.



Side edging

The side ends of the glazed area must be covered with folded metal sheets. It is important to ensure that the panels can expand unhindered. As a rule of thumb, an expansion of 3 mm per m at a 50° temperature difference can be assumed.



Upper edging

It is important to ensure that the area for venting the gap is at least as large as the supply air opening at the bottom.



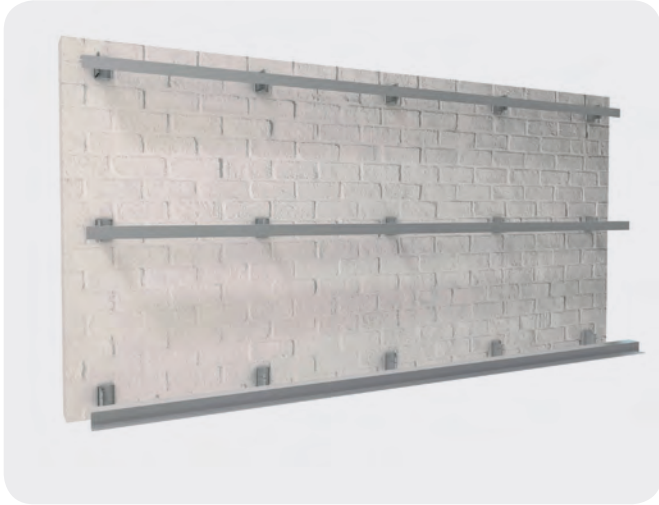
Longitudinal connection

If panels have to be connected lengthwise, a joint must be planned. This can be implemented, for example, with a hat profile. It is important to ensure that the panels can expand unhindered.

Installation manual

SWP

Vertical installation



Substructure

The substructure should consist of at least 50 mm wide profiles. The vertical distance from each other should be between 60–80 cm depending on the wind load (see page 7).



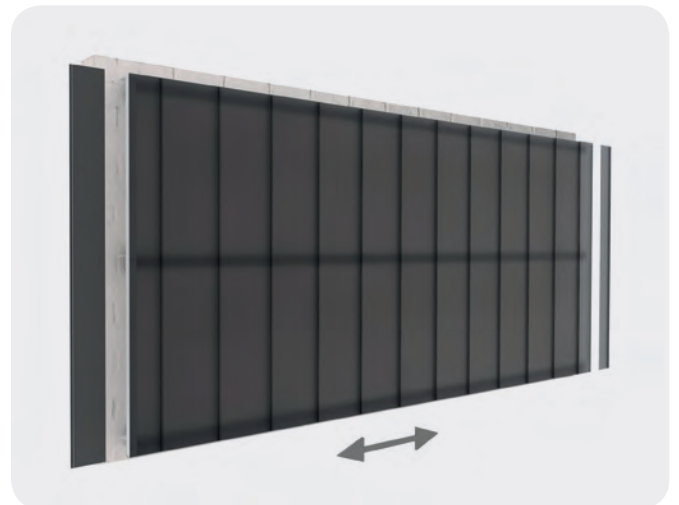
Edge support

To support the PC panels cut lengthwise, 30 mm thick square tubes must be attached to the sides.



Lower support / rear ventilation

Since the panels are fastened vertically by fasteners, the lower support must be able to bear the weight of the panels (approx. 3.8 kg/m²). When planning the substructure, care must also be taken to ensure adequate ventilation of the gap.



Centering out the PC panels

We recommend centering out the area to be clad before starting installation so that panels of approximately the same width can be installed at the edges.

Installation manual

SWP

Vertical installation



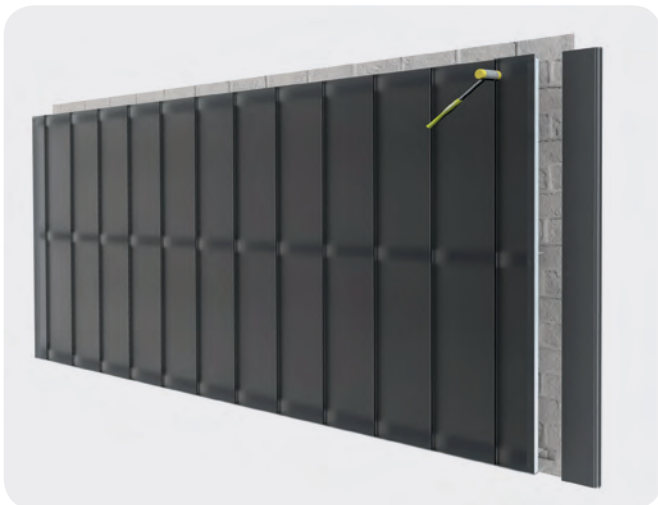
Fastening the first panel

The first panel must be aligned vertically. The suction anchors are pressed onto the groove of the panels until they audibly click into place and then screwed to the substructure. To ensure that the panel is not compressed, the suction anchors must be aligned accordingly.



Assembling the SWP panels

The following panels are pressed into the couplings of the previous ones until the panels are completely connected and firmly seated in the fastener. A soft or rubber hammer must be used. Each panel must be attached to the substructure with fasteners as described above.



Fastening the last panel

The last panel is to be cut and connected to the previous panel as described previously.



Side edging

The cut long sides of the panels are to be attached using aluminum angles and the square tube. It is important to ensure that the clamped panel can expand unhindered.

Installation manual

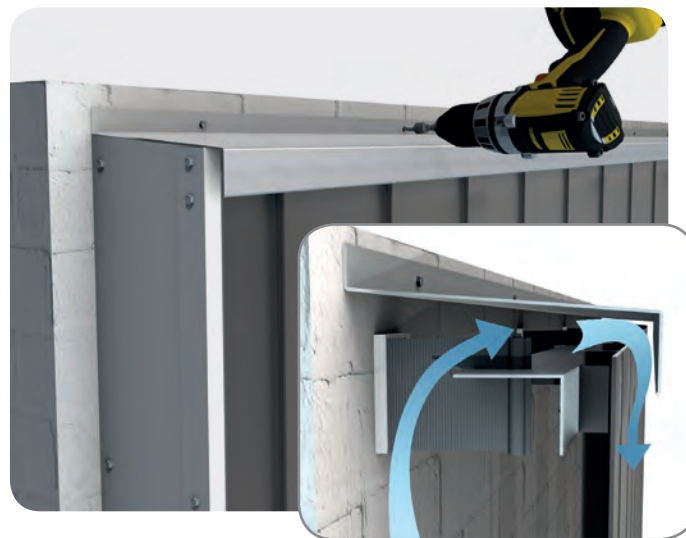
SWP

Vertical installation



Lower edging

The lower end of the glazed area must be enclosed with a metal sheet or angle.



Upper edging

It is important to ensure that the area for venting the gap is at least as large as the supply air opening at the bottom. Furthermore, the upper end must be designed in that way that the panels can expand unhindered. As a rule of thumb, an expansion of 3 mm per m at a 50° temperature difference can be assumed.

Distance between supports

The following distance between supports show the breaking loads of the SWP panel depending on different spans. The values do not replace national building regulations and only apply in conjunction with RODECA accessories and in compliance with the RODECA assembly guidelines. Appropriate safety factors must be taken into account in accordance with national requirements.

Distance between supports	Area load
0,60 m	3,0 kN/m ²
0,80 m	2,4 kN/m ²