

SLIDING GLASS WALL

GSW 17

System description



Product information

The GSW 17 is an all-glass sliding wall with panels that slide individually. It is suitable as a glazing system for loggias, summer gardens, terrace canopies and also as a dividing system indoors. Thanks to panel overlaps of 40 mm and brush seals, it offers optimum protection against the weather while providing maximum transparency.

System characteristics

- All-glass sliding wall with bottom track
- 2-, 3-, 4-, 5-, or 6-rail
- 1 to 12 panels
- Single-glazed safety glass (ESG) of 8 mm or 10 mm
- Maximum panel width of 1600 mm
- Maximum panel height of 2700 mm
- Track lengths of up to 6700 mm without a joint connection
- Bottom track in system colour with stainless steel running tracks
- Optimum opening and closing due to catch and stopper
- Concealed screws the floor and wall profile
- 40mm panel overlap (vertical brush profiles included in delivery)
- 3mm air gap for centrally opening system (H-profile included in delivery)
- Height-adjustable rollers on the outer panels
- Standard turn lock (VD) on the active panel for locking
- All handle types in stainless steel
- Available in Sunparadise-Trend-colours and in clear anodising E6/EV1 at no extra charge
- Black, grey or white covers made of aluminium on the carriage profile of the panels

Options

- Height compensation profile
- 70° to 180° corner solutions
- Locks available in clear or black anodising finish (only available with 10 mm glass)
- Track connection for systems over 6700 mm
- One-piece bottom profile
- 42° threshold profiles, inside and outside
- EPDM mounting profile can be ordered with or without weatherboarding
- Assembly plate
- Floor attachment profile, inside
- Rail extension for systems in front of a wall

Performance characteristics



Wind resistance

Up to 2000 PA according to EN 12211



Impact resistance

Class 3 according to EN 13049



Panel weight

Up to 85 kg maximum



Continuous function test

Class 2: 10,000 cycles, according to DIN EN 12400



Sound test

18 dB according to EN ISO 717-1



Heat soak test (optional)

EN 14179-1&2:2005

Current test values and certificates are available online at: www.sunparadise.com

What makes GSW 17 special



1

Stainless steel running track and rollers

- The running tracks and rollers are made of weather- and abrasion-resistant stainless steel.
- The hardened rollers support panels weighing up to a maximum of 85 kg and remain durable and low-maintenance even when carrying this load.
- The panels are easy to move and roll smoothly in the guide.



2

Innovative handle and lock types

- Large selection of handles in elegant stainless steel.
- All locks are in clear or black anodising finish available.
- Lock types, including on the wall profile (VW type), secure and close any GSW 17 design.



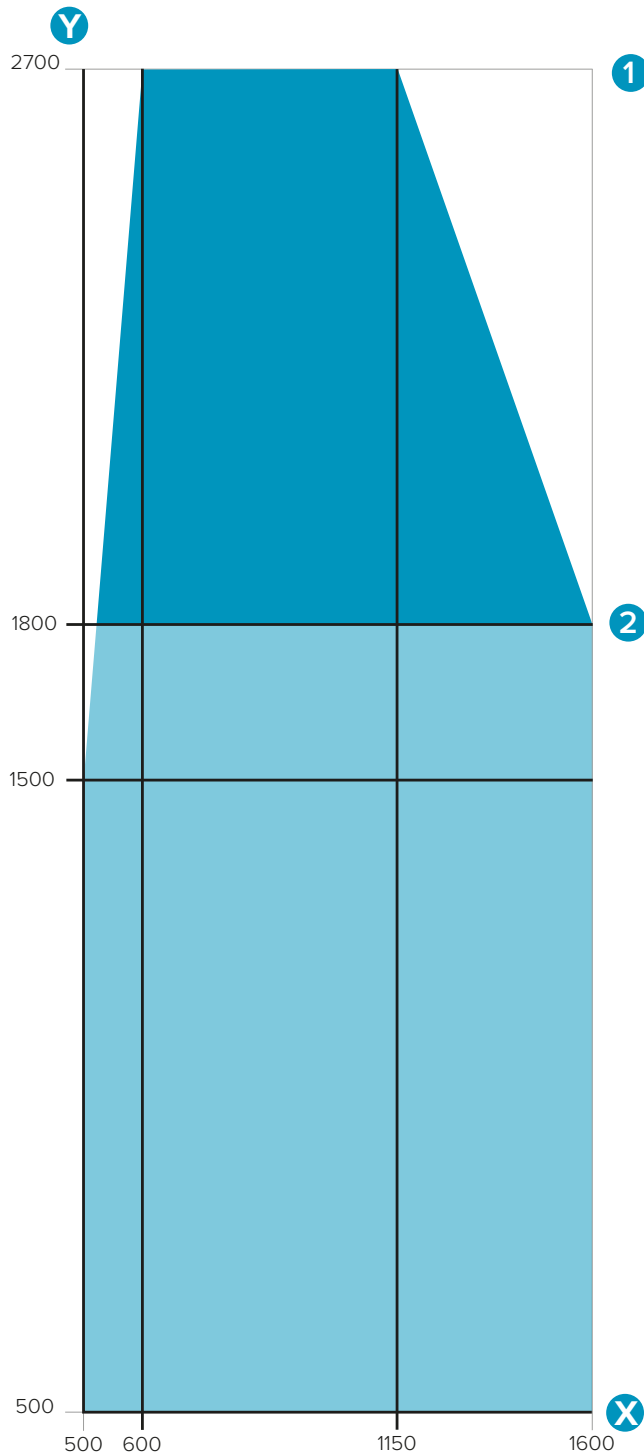
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Can be combined with ShadingPanel 17

- The ShadingPanel 17 sliding panel system can be integrated perfectly into the GSW 17 system.
- No additional profiles are needed for the integration.
- The sliding panels can be effortlessly pushed into the desired position and are thus the optimal shading solution.

(See page 14)

Size diagram



Y System height

X Panel width

1 Maximum system height (2700 mm)
10-mm single-layer safety glass (ESG).

2 Maximum system height (1800 mm)
8-mm single-layer safety glass (ESG).

Please note:

- 85 kg max. panel weight.
- Panel width is approx. system width divided by the number of panels + 40 mm overlap.
- Bespoke sizing may be available on request.

Heat soak test

In the case of single-layer safety glass (ESG), nickel sulphide inclusions may occur in isolated cases due to the material and production process, resulting in breakage.

We therefore recommend that you use heat-soak tested single-layer safety glass ESG-HST. Panes of ESG whose upper edge is assembled more than 4 m above the traffic area must be made of single-layer safety glass (ESG-HST).

Please keep this in mind when preparing a quotation and processing an order.

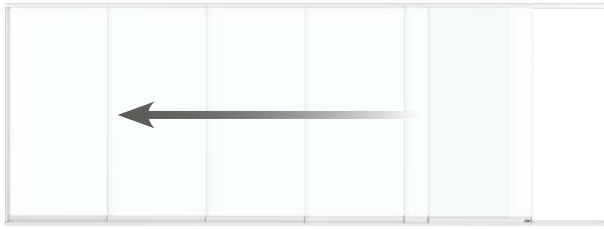


Information

The size diagram does not take into account wind & impact loads. The wind loads / wind pull vary depending on the height above wind zones and building areas. The actual values must be requested from the relevant structural engineer of the building and a calculation must be carried out according to the local conditions and applicable standards.

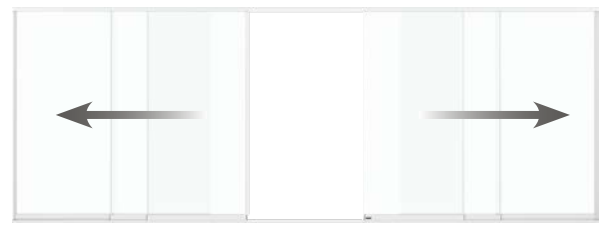
Opening variants

Left & right model



- 2- to 6-rail
- 1- to 6-panel
- Can be slid behind wall
- Opens to the left or right

Centre model



- 2- to 6-rail
- 1- to 12-panel
- Can be slid behind wall

70° to 180° corner model

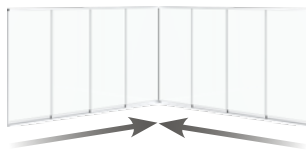
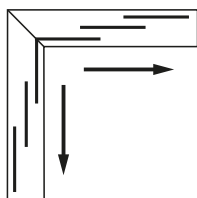


- 2- to 6-rail
- 2- to 12-panel
- Outside or inside corner.
- Diverse rail combinations available through special cut (e.g. 90° connection for 3- and 4-rail system).

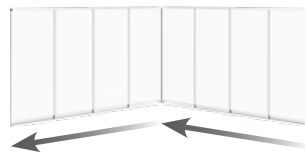
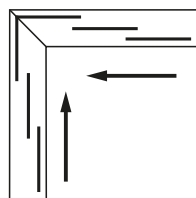
Panel positions for corner systems



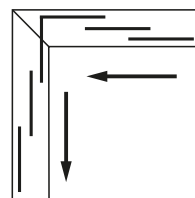
Typ 1 *



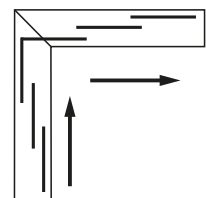
Typ 2 *



Typ 3 *



Typ 4 *



* The number of panels or rails can also be planned asymmetrically.

** Further designs possible on request.

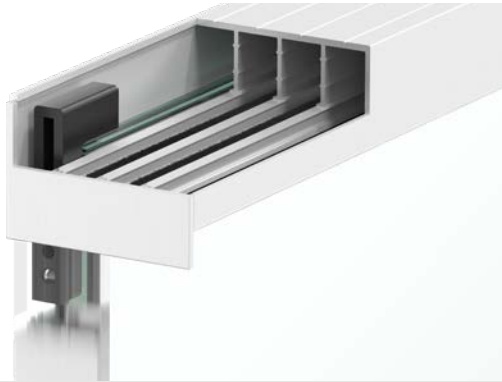


Information on balcony systems

No systems may be assembled on the outside of balustrades or railings.

Standard details

1



Safety catch in the ceiling track

- Safety catch pre-assembled in the wall profile.
- Safety catches supplied with the system must be fitted at the panel joints.
- Protection against the panels becoming unhinged in the event of wind or burglary.

1



2

3

2



Panel overlap & brush profile

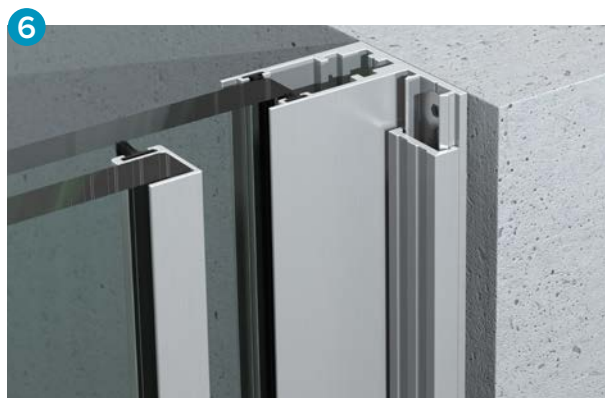
- Panel overlap of 40 mm. Protects against environmental influences such as noise, wind and driving rain.
- Vertical brush profiles included as standard.
- 3 mm air gap for permanent air circulation and reduced condensate formation (optional H-profile included in delivery)

3



Catch

- Concealed and integrated into the base profile.
- When closing, the panels are pulled closed.
- Quick and easy closing of the system.



Wall connection profile

- Easy and precise retraction and extension of the panel.
- The screw connections are concealed by the clip profile.
- The elegant visual effect rounds off the appearance of the system.



Stainless steel running track and rollers

- Electropolished and hardened rollers and running tracks in stainless steel.
- The abrasion-resistant running tracks and rollers are durable and low-maintenance even with panels weighing up to 85 kg.
- Easy and smooth guidance of the panels.



Two-piece bottom track

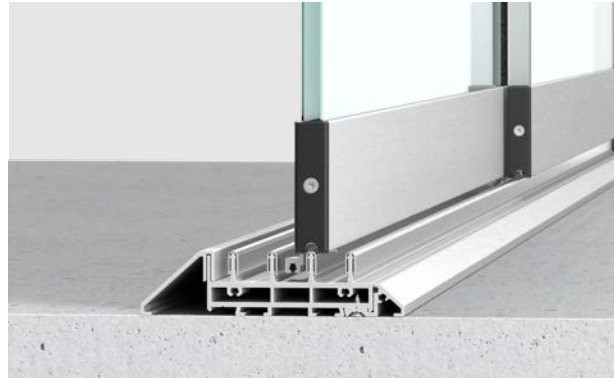
- Quick and easy installation with concealed screw connections.
- Controlled drainage to the outside through the running track and base profile.
- Base profile in system colour for a uniform appearance.

Extensions & options



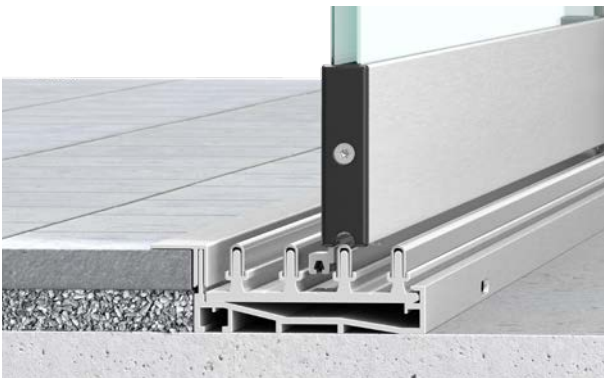
One-piece bottom track

- Bottom track made of one profile in system colour with stainless steel running track.
- Drainage slots allow water to flow to the outside.
- Can be combined with various connection profiles.



Good accessibility due to threshold profiles

- Profiles are adapted to the system ex works for ease of assembly.
- Ensures obstacle-reduced passage & transition thanks to the flat 42° pitch.
- Ideal for indoor use, e.g. as a room divider.



Floor connection profile

- Can be applied to the one-piece & two-piece bottom track.
- Simple installation by inserting into the bottom track profile.
- For the inside floor seal. Allows for a seamless transition into the garden.



Weather strip mounting profile

- EPDM mounting profile for the integration of a weather strip or other sheet metal closure.
- Two prefabricated sheet metal standard types can be ordered for easy assembly.
- Ideal protection against the weather or dripping water.



Information on profile types

Further profile types: pocket profile and mounting profile.

Detailed information can be found in the document "Technical drawings".



Lock types

- Elegant locks with profile cylinder or profile cylinder cut-out, in clear or black anodised finish.
- Can be used for systems with 10 mm glass.
- The sliding handle can be optionally assembled (included as standard / not pre-drilled).



Locking in the wall profile (VW)

- The first-opening panel is locked and secured in the wall profile.
- Operating lever integrated into the wall profile on the inside (active- and service panel).
- Easy operation at handle height.

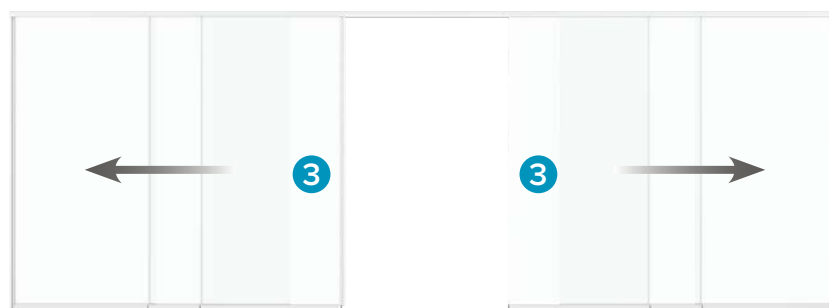
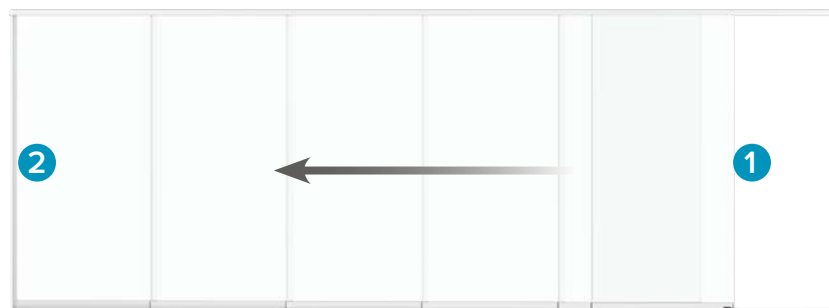


Locking in the bottom profile

- Use with corner systems $\neq 90^\circ$, systems without wall profile and rail extension.
- The first-opening panel is locked into the bottom profile and secured in place.
- Concealed locking in the base profile.



Handle types



Information

We recommend that you install the stopper with all handle and lock types.



GE

Type: Glass single bore
 Ø: 30 mm
 Option: Individual Ø

1 2 3 4



II

Type: Sliding handle
 Operation: Inside
 Material: Stainless steel
 Surface: Brushed

1 3 4



ISI

Type: Sliding handle
 Operation: Inside
 Material: Stainless steel
 Surface: Brushed

1 3 4



IB

Type: Sliding handle
 Operation: Inside & outside
 Material: Stainless steel
 Surface: Brushed

1 2 3 4



ISB

Type: Sliding handle
 Operation: Inside & outside
 Material: Stainless steel
 Surface: Brushed

1 3 4



IH

Type: Sliding handle
 Operation: Inside
 Material: Stainless steel
 Surface: Brushed

2 4



IMB 65

Type: Recessed handle
 Operation: Inside & outside
 Material: Stainless steel
 Ø: 65 mm
 Surface: Brushed

1 2 3 4

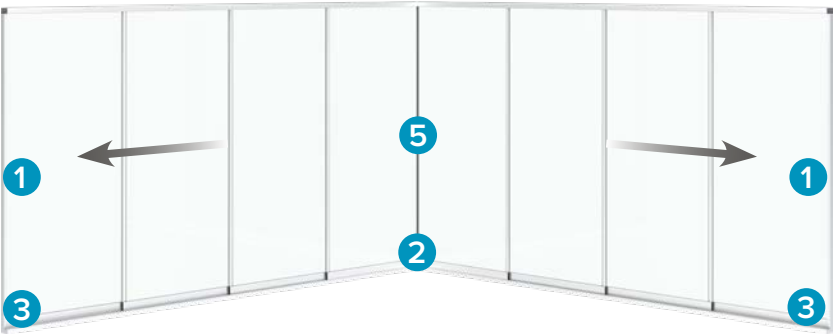
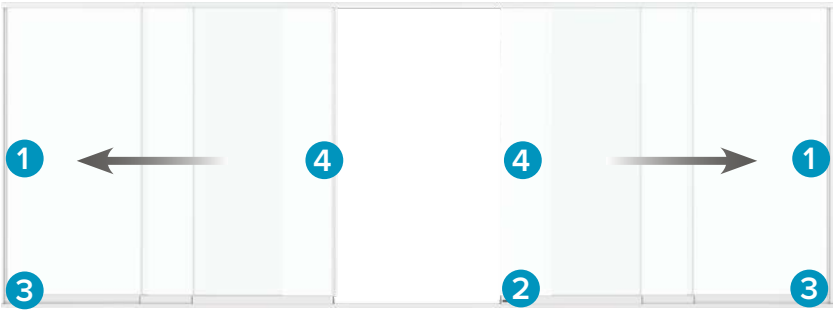
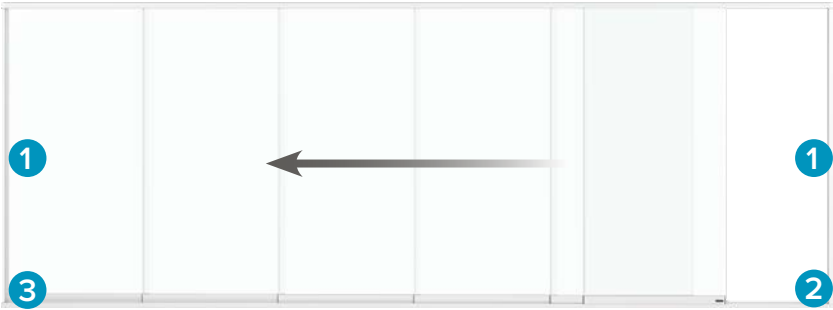
IB/IH length specifications

Inside handle length is defined based on the number of rails:

- IB1/IH1: 45 mm = 2- and 3-rail
- IB2/IH2: 57 mm = 4-rail
- IB3/IH3: 71 mm = 5- and 6-rail

It is possible that the handle shell may contact the next panel. In this case, the stopper supplied must be mounted by the customer.

Lock types



VD (standard)

Type: Turn lock
 Operation: Inside
 Material: Aluminium
 Surface: Black, grey or white

2



VS (standard)

Type: Service lock
 Operation: Inside
 Material: Aluminium

3



VW

(locking in the wall profile)

Type: Lock
Operation: Inside
Material: Aluminium
Surface: Brushed
Colour: Clear or black anodised

1



VE

(90° corner locking)

Type: Lock
Operation: Inside
Material: Aluminium
Surface: Brushed
Colour: Clear or black anodised

5



VM

(centred-opening locking)

Type: Lock
Operation: Inside
Material: Aluminium
Surface: Brushed
Colour: Clear or black anodised

4



Info on locks

Locks (VM, VE, VZ, VH, VPZ, VZE, VHE and VPE) only available with 10 mm glass.



VZ

(lock case)

Type: Lock
Operation: Inside & outside
Material: Aluminium
Surface: Brushed
Colour: Clear or black anodised

1 4

Options: lock case

- VZ: Lock with cylinder (incl. 2 keys)
 - VH: Lock with semi-cylinder
 - VPZ: lock with profile cylinder cut-out
- Centred opening with strike box (GK)



Information on lock cases

The sliding handle can be optionally assembled (included as standard / not pre-drilled).



VZE

(90° corner lock case)

Type: Lock
Operation: Inside & outside
Material: Aluminium
Surface: Brushed
Colour: Clear or black anodised

5

Options: corner lock

- VZE: Lock with cylinder (incl. 2 keys)
- VHE: Lock with semi-cylinder
- VPE: lock with profile cylinder cut-out

GSW 17 with integrated sliding panels

ShadingPanel 17

On particularly sunny days, we need suitable protection from too much sunlight. In combination with the GSW 17, the ShadingPanel 17 sliding panels provide the ideal amount of shade.

The ShadingPanel 17 sliding panels can be effortlessly moved into the desired position. As the sun moves round during the day the sliding panels can be swiftly adjusted.

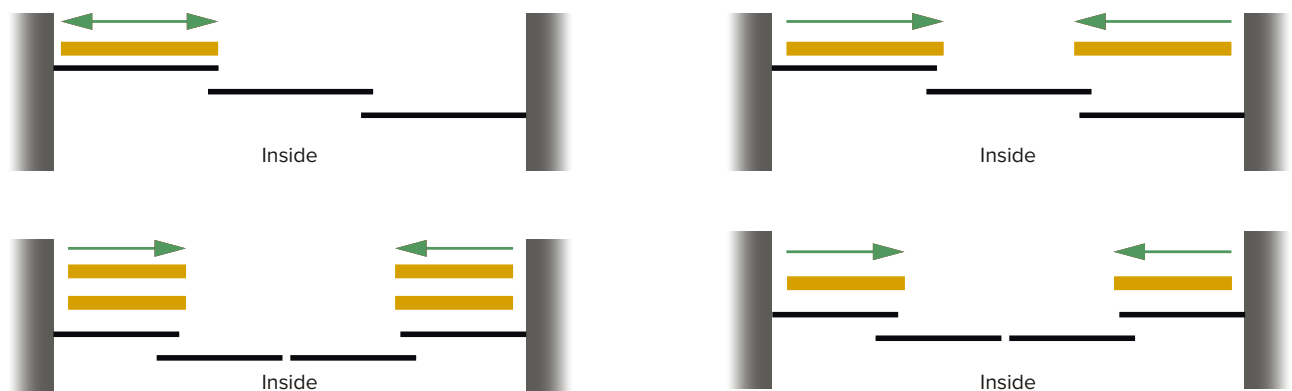


Technical details

- Sliding panels made of high-quality aluminium
- Stainless steel rollers
- Slat tilt of 45°
- Gap dimensions between slats = 12 mm
- Sliding panel width = 500 mm to 1200 mm
- Sliding panel height = 800 mm to 2700 mm
- Sliding panel depth = 40 mm
- Exterior protrusion = 22 mm

Individually combined

Depending on the size of the system and the number of GSW 17 panels, the sliding panels can be integrated in different designs.



Bespoke options are available on request.

 ShadingPanel 17

 GSW 17

GSW 17 & ShadingPanel 17



Integration in ceiling profile

- The ShadingPanel 17 fits perfectly into the ceiling profile of the GSW 17 without an additional clip-on profile.
- Safety catches provide protection against unintentional unhooking or in windy conditions.
- The assembly times for the GSW 17 with an integrated ShadingPanel 17 are almost identical.

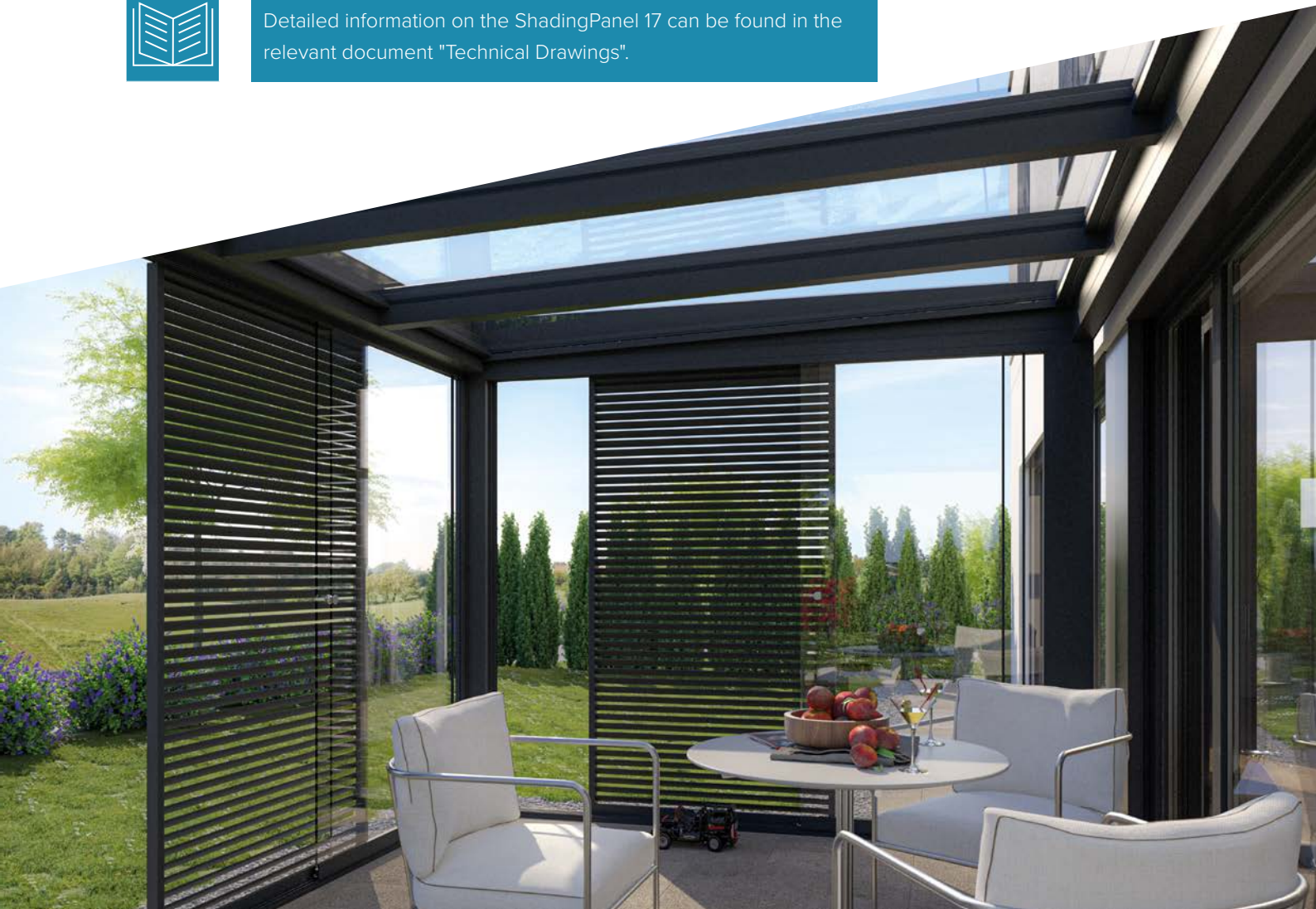


Integration in bottom profile

- The ShadingPanel 17 runs without an additional profile on the running tracks of the GSW 17.
- Stainless steel running technology for a quiet and durable system.
- The protrusion at the outside edge of the bottom track is 22 mm.



Detailed information on the ShadingPanel 17 can be found in the relevant document "Technical Drawings".



FAQs about the GSW 17

Here you will find further information and details as well as answers to frequently asked questions.

For which uses and areas of application is the GSW 17 suited?

The GSW 17 is a thermally non-separated system, which is ideal as glazing for your balcony or terrace, in summer gardens, or as a space-saving room divider in the home or in offices.

How does the bottom track need to be fitted to ensure optimal drainage?

The GSW 17 is always supplied with a two-piece bottom track. The base profile is provided with an additional profile that guides water directly to the drainage holes and thus prevents water accumulation. The running track clicks into the base profile in a simple and secure manner, which provides for a clean look.

Which system sizes and panel dimensions can be achieved with the GSW 17?

The largest possible system size depends on the panel dimensions as indicated in the panel diagram. The maximum system size is determined by the defined panel width and panel height, as well as the desired opening type.

Does the system offer protection from road noise?

Yes, the GSW 17 reduces the noise from outside by up to 18 db according to the results of tests performed in line with the ISO 717-1 standard.

Which glass thicknesses are used for the GSW 17 and are there certain limits here?

Single-layer safety glass (ESG) with a thickness of 8 mm or 10 mm is used for the GSW 17. 8 mm glass is always used for systems up to 1800 mm high, and 10 mm glass is used for system heights up to 2700 mm. The details can also be taken from the panel diagram.

Does an all-glass sliding wall help save energy and heating costs?

The large glass surfaces of a balcony or terrace glazing heat up the interior through natural solar gain, even on overcast days. By opening the inner door this warm air will permeate the inner room also. On warmer days, the glazing can simply be opened up for natural ventilation. This function manages natural energy and maximises efficiencies that reduce energy costs.