

INDIVIDUAL TERRACE ROOF

PRIME

System description



PRIME at a glance

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4 wall connection types

P. 6/7

- Flexible
- Fast installation
- Balcony connection
- Self-supporting

2

3 rafter types

P. 8/9

- Plane rafter with external statics
- Plane rafter with internal statics
- Edge rafter

3

4 eaves carrier variants

P. 10/11

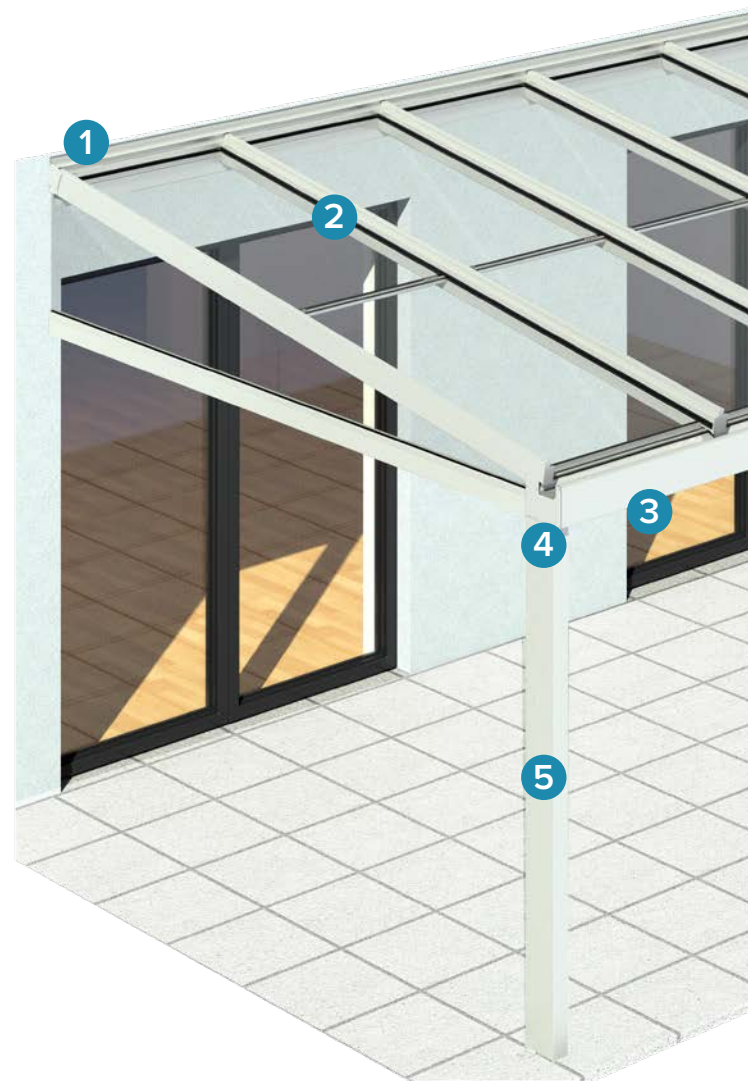
- Eaves carrier 130
- Eaves carrier 170
- Eaves carrier 205
- Eaves carrier 240

4

Individual designs

P. 12/13

- Modern & angular
- Classical & curved
- Panel for shading



Surface load

Up to 3.5 kN/m²

Higher surface loads available on request



DIN EN1090

Process certified as per standard

Proof of stability on request



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4 post types

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- The corner post
- The offset post
- The middle post
- The protruding post

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Optional: roof overhang

P. 16

- Divided glass with integrated gutter
- Solid glass with protruding gutter

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Optional: ventilation

P. 16

- For improved air circulation
- Easy to operate system

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Optional: LED lighting

P. 16

- Flush integrated in the rafters
- Matching clip-on profile
- Easy, plug&play installation



Span

up to 6.7 m without steel or middle post
Larger spans possible with middle post



Roof depth

up to 5.5 m without steel insert
Larger roof depths possible

This is what distinguishes PRIME

When it comes to choosing a design featuring the new PRIME terrace roof, the sky's the limit. PRIME convinces with numerous roof variants, large support widths without middle post and additional special installation, safety and design features:

Easy installation

Thanks to its sophisticated technical concept, PRIME can be easily and quickly installed:

- Eaves carrier without steel inserts.
- Specially developed connection of front support and post already stabilises the frame at the time of installation.
- Numerous pre-fitted parts ex works.

Guaranteed stability

The innovative joining solution guarantees stability even without glass:

- Specially designed joint between eaves carrier and post made of high-quality steel
- Lightweight construction, no steel in the eaves carriers
- Stability during installation

Flexible and individual design

The two available design variants can be equipped with additional options:

- Optional panel for integrated shading
- Covers, downpipes and downpipe covers according to visual preferences
- Terrace roofs with roof overhang



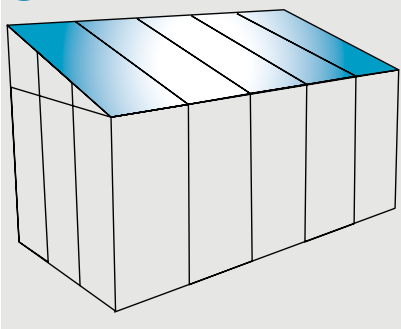
The roof types

Our 7 standard roof types

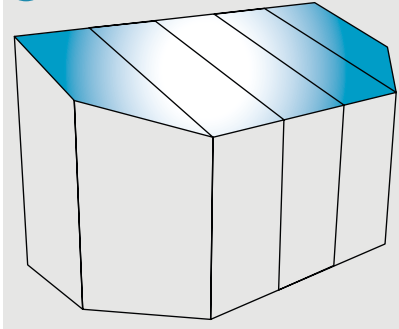
We offer 7 standard roof types that can be quickly and easily planned and calculated.

The PRIME terrace roof provides the ideal solution for any construction situation. Besides these standard roof types, individual roof types can also be adapted to the local surroundings and planned and implemented according to customer requirements.

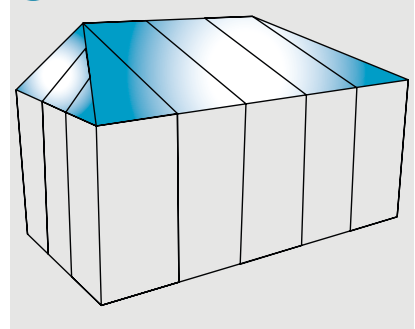
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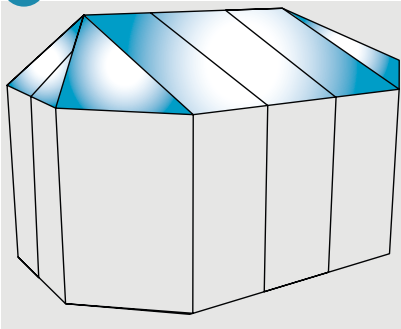
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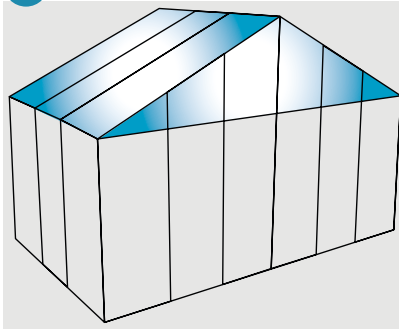
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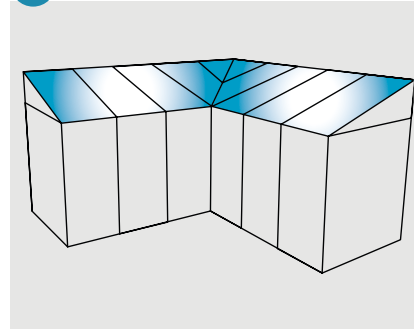
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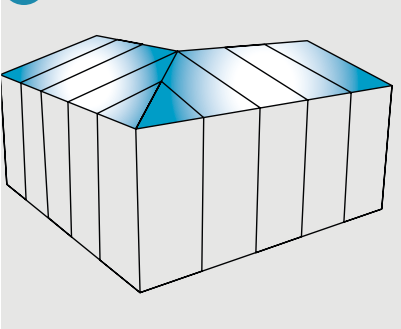
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6



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Information

Your construction situation requires a special roof shape? We can help you to find the right solution and can prepare the quotation for complex patio roofs. PRIME surely provides a solution.

1 Wall connections

Features

- Our wall connections are suitable for the most varied construction situations with four designs:
 - Wall connections attached to the facade:
 - Single-part or two-part wall connection
 - Special wall connections:
 - Self-supporting wall connection or balcony connection with integrated connection solution
- The wall connection can be selected according to the construction situation or the preferred installation type.
- Each wall connection can be supplemented with a cable duct for proper storage of all LED lighting cables.

Single-part wall connection (fast installation)



- Roof inclinations from 5° up to 25° possible.
- Available in 6 different connection heights depending on the rafters and roof inclination.
- Developed for very simple and fast installation.

Two-part wall connection (flexible)



- Roof inclinations from 5° up to 45° possible.
- Available in 95 and 135 connection heights.
- Suited for all roof types and larger roof inclinations.
- Even roof types with rising wall connection are possible.

Advantages

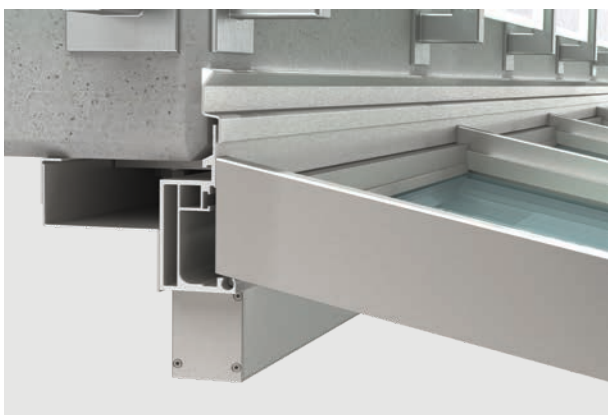
- The four designs help you make the right choice from the planning phase.
- Even for special roof variants, an ex works solution is available. This simplifies planning, calculation and assembly on site.
- The wall connections are supplied ex works largely ready for installation and matching the respective terrace roof.
- Besides these technical coordination options, the wall connection can also be visually adapted to the terrace roof, which results in a harmonious appearance.

Self-supporting on wall (not free-standing)



- Roof inclinations from 5° up to 25° possible.
- Rigid joints between wall connection and post ensure stability.
- The surface and side loads are supported by the wall connection itself.
- Suited for installation on facades with external insulation or for installation in niches.

Balcony connection



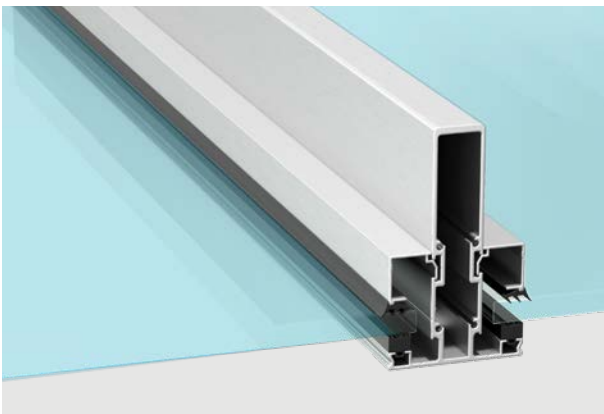
- Roof inclinations from 5° up to 25° possible.
- The wall connection is directly attached to the balcony.
- It is supplied with the end plate for covering the bracket screw fitting.
- Easy and fast installation even with complex construction situations.

2 Rafters

Features

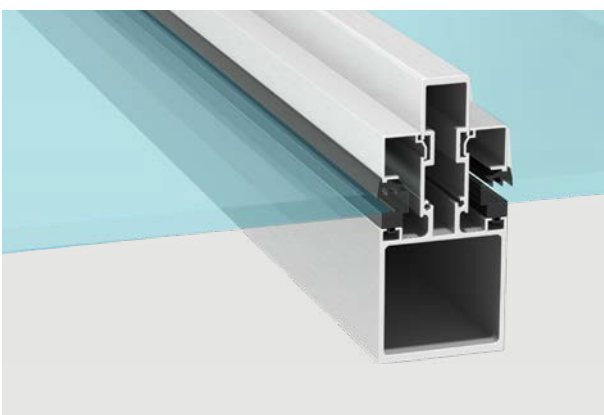
- Two types of plane rafters are available depending on the static and visual requirements:
 - Plane rafter with external statics
 - Plane rafter with internal statics
- The plane rafters are available in four different sizes (95, 135s, 135b, 165i).
- The edge rafters are laterally plane and fitted with a flush side cover.
- All rafters are optionally available with steel insert and can therefore also be used with extraordinarily high surface loads or large roof depths.
- Optionally, the applied plane rafter can be designed as an edge rafter

Plane rafter with external statics



- Available in the sizes 95, 135s and 135b.
- Flush view from inside.
- Optional steel insert available.
- Both roof overhang variants can be designed with this rafter.
- The LED lighting is integrated with a visually co-ordinated clip-on profile.

Plane rafter with internal statics



- Available as rafter 165i.
- Flush view from outside.
- Only available with the large cable duct.
- Optional steel insert available.
- The LED lighting is integrated directly in the rafter.
- Specially suited for large roof depths.

Technical details

Rafter design	Dimensions (H x W)	Roof depth without steel *	Roof depth with steel *	Statics
Plane rafter 95	95 x 77 mm			Outside
Plane rafter 135s	135 x 77 mm			Outside
Plane rafter 135b	135 x 128 mm			Outside
Plane rafter 165i	165 x 77 mm			Inside
Edge rafter 95	95 x 53 mm			Outside
Edge rafter 135s	135 x 53 mm			Outside
Edge rafter 135b	135 x 104 mm			Outside

* Initial values: surface load = 0.75 kN/m² / roof inclination = 5° / L200 / rafter spacing = 0.8 m

 = 1 metre

Ridge & valley rafters

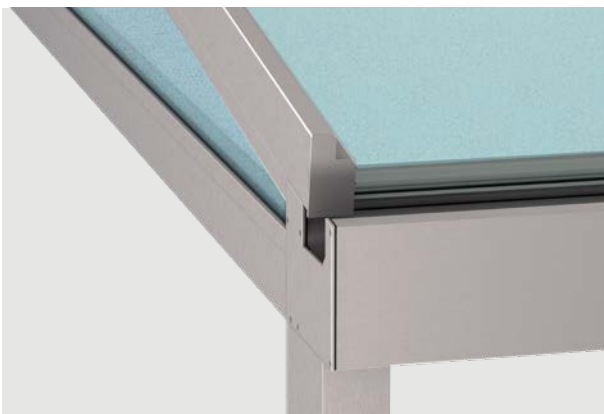
Design: 95 and 135s

Inclination angle 90° to 180°



All rafters are also available as wall rafters incl. wall flashing.
For detailed information see the document "Technical drawings".

Edge rafter



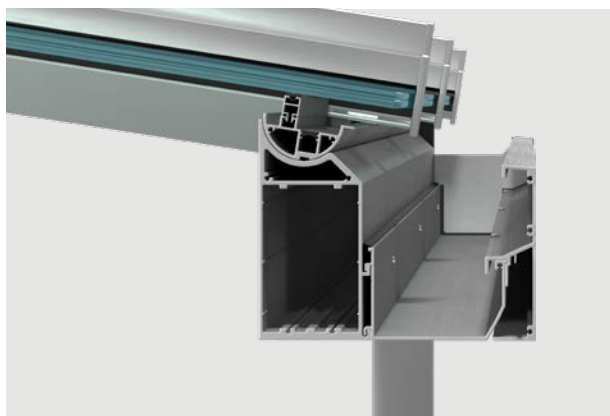
- Available in the edge rafters designs 95, 135s and 135b.
- Only available as external statics.
- Lateral plane flashing for a clean connection between roof and wall. Eaves have flush fitting co-ordinated end cap.
- Designed as a wall-connected rafter for constructions connected laterally to the wall.

3 Eaves carrier

Features

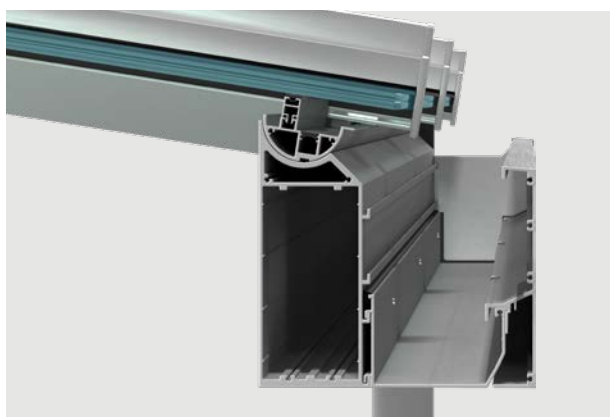
- The eaves carriers for PRIME are available in four designs:
 - Eaves carrier 130
 - Eaves carrier 170
 - Eaves carrier 205
 - Eaves carrier 240
- The optimum design of the eaves carrier allows large spans even without middle post and without additional steel insert.
- Each eaves carrier is fitted with a matching panel in the desired design. (See page 12)
- Specially developed joints guarantee stability even before inserting the glass.

Eaves carrier 130 & 170



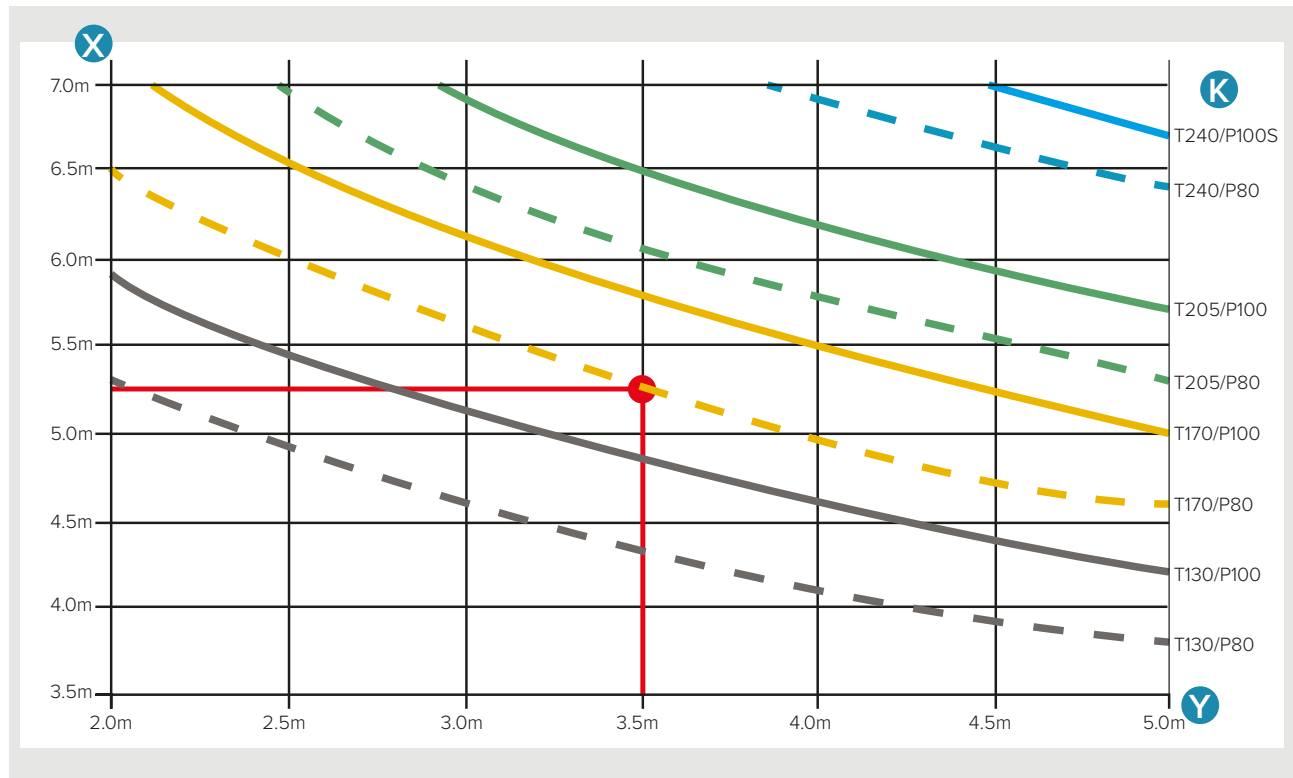
- Can be combined with panel 135.
- The slender appearance ensures a refined look.
- Cost-efficient eaves carrier that allows for high surface loads with low aluminium content.

Eaves carriers 205 & 240



- Can be combined with panel 170.
- Can be combined with the optional panel 276 for integrated shading.
- Vertical shading can be integrated unobtrusively.
- Ideal for large roofs and spans without additional middle post.

Surface loads of the eaves carrier and post combinations



Initial values: surface load = 0.75 kN/m^2 / L200 / without elements

X Span in metres

Y Roof depth in metres

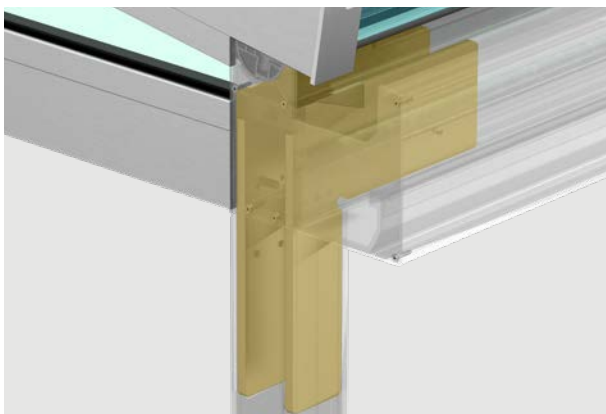
● The T170/P80 combination allows a span of 5.25 m and a roof depth of 3.5 m.

K Eaves carriers & posts combination

T = eaves carrier P = post

Example: T170/P80 = eaves carrier 170 / post 80
(post 100S = with steel)

Rigid corner and centre joint



- Rigid joint between front support and pillar developed specially for PRIME.
- Additional steel inserts are no longer required thanks to this joint.
- Each PRIME is thus stable without glass insert.
- The stable frame statics of this structure simplify the installation.

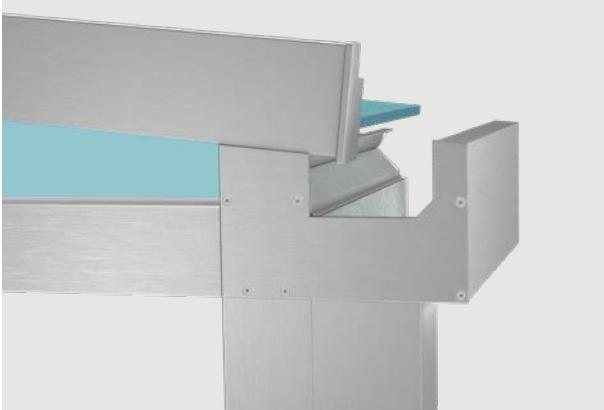
4 Individual design variants

Features

- PRIME can be constructed in two design variants:
 - Modern & angular
 - Classical & curved
- Two standard panel variants and the post types are adapted to the desired design.
 - Panel 135 (can be combined with the eaves carriers 130 and 170)
 - Panel 170 (can be combined with the eaves carriers 205 and 240)
- The optional panel 276 (combined with the eaves carriers 205 and 240) is ideally suited for integrating vertical shading.
- The side covers of the gutter are flush and individually adapted to the roof inclination.

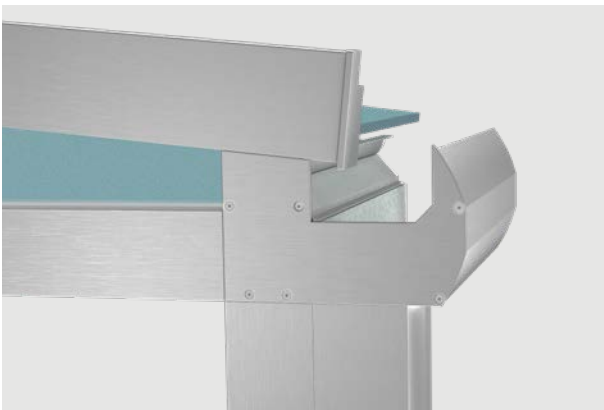


Modern & angular



- The angular design is supplied as the standard variant.
- Panel and downpipe cover are also angular.
- The entire terrace has a uniform design.
- Suited for buildings with a cubic architectural style.

Classical & curved



- The curved design is available as an optional variant without at no extra cost.
- Panel and downpipe cover have a round design.
- The entire terrace roof has a classical design.

Panel for the integrated shading



- The optional panel 276 is suited for integrating vertical shading.
- Opening dimensions: W = 140 mm / H = 170 mm
- Can only be combined with the eaves carriers 205 and 240 and the cross beam 200/80.
- Provides enough space for the installation of standard shading.

5 Post types and variants

Features

- The four post types are available in the following designs, irrespective of spans and surface loads:
- **80/80/4** — Standard post size when planning a PRIME.
- **80/100/4** — Optional post, specially suited for integrated installation of substructure elements.
- **100/80/4 with static reinforcement** — Can be combined with all eaves carriers to achieve a higher surface load.
- **80/40/4** — Optional post underneath the single or two-part wall connection. This visually terminates the roof structure with an element frame.
(IMPORTANT: This post cannot be used with the self-supporting wall connection.)



Information

The self-supporting wall connection can be combined with the posts "80/80/4" or "100/80/4 with static reinforcement".

Corner post / offset post



- Standard: 80/80/4
- Optional: 80/100/4 or 100/80/4 with static reinforcement
- The offset post is indented by min. 300 mm up to max. 1500 mm.
- Rigid connection with corner joint and T-joint.
- The offset post allows larger spans and higher surface loads.

Protruding post



- Standard: 80/100/4
- Possible as middle post or offset post (min. 300 mm, max. 1500 mm offset).
- Suited for the installation of substructure elements (e.g. solid sliding wall).
- Also permits the construction of terrace roofs with roof overhang.

6 Optional: roof overhang

Features

- Protrusion up to 1500 mm.
- The roof overhang can only be realised with external statics.
- All rafter sizes of the external statics can be used to meet the required surface load.

Application areas

- Roof overhang protects substructure elements and/or the seat from soiling.
- Suited for individual design preferences or visual adaptation to the building.

Aesthetic preferences

- The roof overhang can be created in the following designs to meet the visual preferences:
 - Divided glass with gutter integrated in the front support
 - Solid glass with protruding gutter

Roof overhang with divided glass



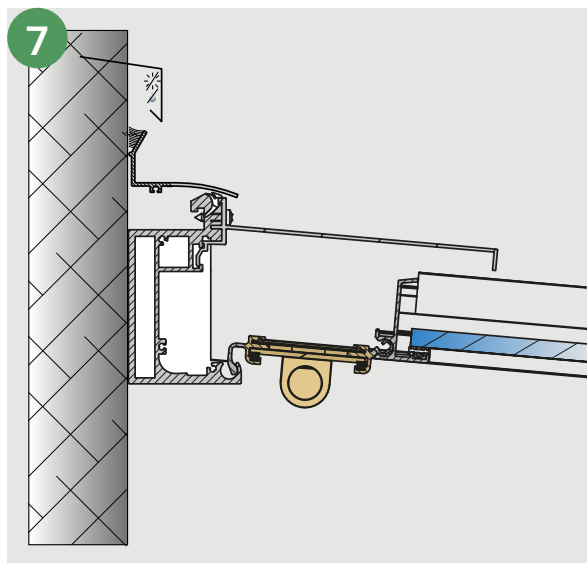
Divided glass with integrated gutter

Roof overhang with solid glass



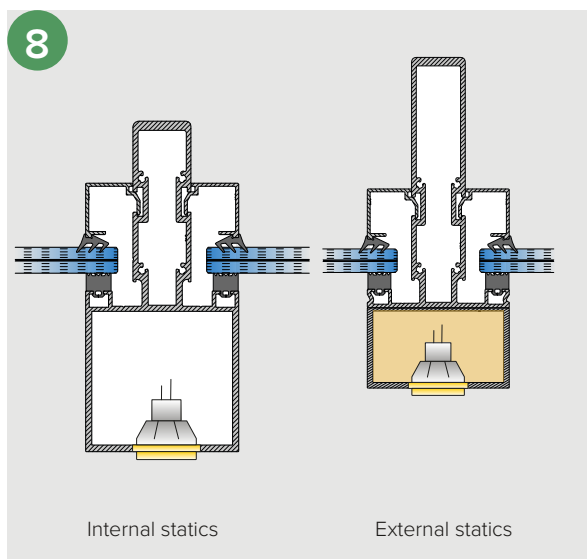
Solid glass with protruding gutter

Further options



Passive ventilation

- This system is the ideal solution for air circulation and to prevent heat accumulation underneath the terrace roof.
- The aluminium sliding ventilation option is supplied in system colour ready for installation.
- The integrated insect screen effectively deters insect intrusion.
- The sliding ventilation is easy to operate with the supplied rod.

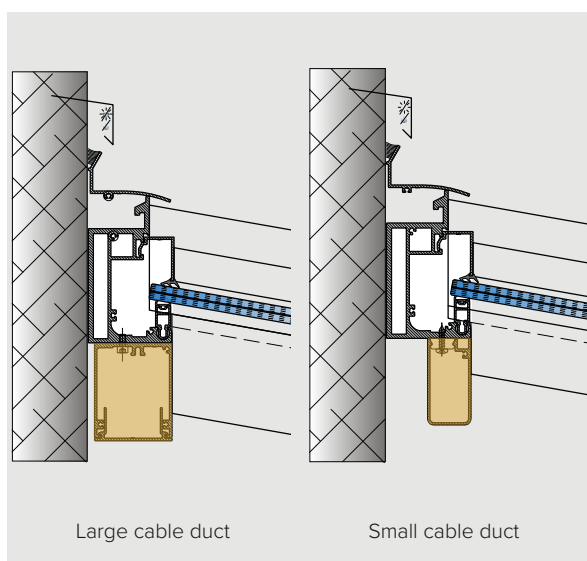


LED lighting

- With external statics, the LED channel is attached and secured with a clip-on profile.
- With internal statics, the illumination is integrated in the rafters.
- Easy plug&play principle for easy and quick installation.



For more information, please refer to our LED brochure.



Cable duct

- The wall mounts can be optionally expanded with a matching cable duct.
- This ensures clean and concealed storage of all cables, for example for the LED lighting.
- The cable duct is available in two sizes.
 - Large = W: 63 mm / H: 80 mm
 - Small = W: 35 mm / H: 70 mm

Further options

Additional individual options

Each PRIME can be supplemented with an additional option. This makes each terrace roof unique and meets individual wishes and requirements:

- Snow trap
- Awning mount for horizontal shading
 - Internal installation
 - External installation
- Matching downpipe in 3 designs
 - PVC downpipe Ø 50 mm incl. downpipe covering (= standard)
 - Aluminium downpipe Ø 70 mm in system colour
 - Aluminium downpipe Ø 50 mm in system colour for roof protrusions
- Height-adjustable foot bracket
- Glass-dividing transom
- Gutter raised by 80 mm (possible for eaves carriers 205 & 240)
- Wall connector for eave beams for constructions connected to the wall (in most cases without posts)



For more detailed information about the respective options as well as exact dimension specifications and sectional images, please refer to the document "Technical drawings".

The combination matrix

Combination: wall connection – rafter – cable duct

	Rafter 95s	Rafter 135s	Rafter 135b	Rafter 165i
Wall connection standard 5° to 25°	● ■	● ■	● ■	▲
Wall connection two-part 5° to 45°	● ■	● ■	● ■	▲
Wall connection 5° to 25° self-supporting	● ■	● ■	● ■	▲

● Large cable duct 5° to 15° ■ Small cable duct ▲ Large cable duct 5° to 25°

Combination: post – eaves carrier – wall connection

	Self-supporting wall connection	Protruding post
Corner post	● ▲	
Offset post	● ▲	■
Middle post	● ▲	■
Middle post with butted roof	● ■ ▲	

● Post 80/80/4 ■ Post 80/100/4 ▲ Post 100/80/4 with static reinforcement



Information: The protruding post can only be combined with the downpipe Ø 50 mm.

Combination: eaves carrier – panel

	Panel 135	Panel 170	Panel 276 for shading
Eaves carrier 130	● ■		
Eaves carrier 170	● ■		
Eaves carrier 205	■	● ■	●
Eaves carrier 240	■	● ■	● ■

● without roof overhang ■ with roof overhang

PRIME FAQ

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

For what applications is the PRIME terrace roof suitable?

PRIME can be used as a terrace roof and summer garden.

It is an ideal solution where there are plans to retrofit a terrace roof, or it can also be brought in at the planning stage for an architecturally integrated terrace roof. Alternatively, it can be used as a summer garden. Sunparadise offers all the necessary components, from sliding and folding walls to all-glass systems.

What glass thicknesses can be used with PRIME?

PRIME can be used with a glass thickness of 8 mm to 35 mm. Using thicker glass makes it possible to create a larger spacing between rafters.

What type of wall connection should I choose for my roof design?

The ideal wall connection depends on the customer's requirements, as well as the conditions at the installation site. All of the wall connections have particular properties that make them ideal for specific projects. When planning your structure, pay particular attention to the surface loads and the conditions at the construction site.

What roof styles and variants can be created?

PRIME is designed for individual roof solutions, meaning it can fulfil all the wishes and requirements a customer may have.

Special roof shapes can also be created on agreement, for example with an architect in the planning phase.

What kinds of aesthetic finishes can be achieved with PRIME?

PRIME can be used to create a completely individual terrace roof. Special attention must be paid to the surface loads and construction situations when fulfilling individual customer wishes. For instance, it is possible to choose from internal or external statics, a linear or curved design, and many more options.

PRIME is additionally available in 28 standard colours.



Advice and assistance right from the start



Help with project execution

We offer you assistance ranging from project planning to installation.



Complete delivery

All our systems are prefabricated for easy on-site installation.



Our service does not stop there

Our competent after sales team will gladly assist you with any queries.

Certified quality

Accredited certificates prove the quality and expertise behind the systems and services.

- Quality management in accordance with **ISO 9001**
- In-house production control in accordance with **DIN EN 1090**

- Environmental management in accordance with **ISO 14001**
- Certified sound insulation and wind resistance categories
- Burglary resistant in line with **RC3**
- **CE label** in line with EU requirements

EN 1090

