

# More light and space for a sense of wellbeing

Conservatory and terrace roof systems







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# Conservatories – a sheer delight

The conservatory or “winter garden” really ought to be called the “four seasons garden”. Flooded with light, this room offers absolute living comfort for a feeling of well-being in every season – regardless of whether it is raining or snowing, whether it is freezing or the sun is shining.



**More light, more living space,  
more comfort**  
A sheer delight for the whole family

In a conservatory, you and your family are at home all year round. In the spring, you can watch as the first green shoots appear in the garden. In summer, you can enjoy the light breeze drifting in through the fully opened front. In autumn, you can make yourselves

comfortable as the wind pulls the leaves from the trees. And in winter, as you look out at the snowy garden landscape, you can begin to dream about welcoming the next spring in your conservatory.

## A real bright spot



Energy generation: a conservatory with BIPV

Space flooded with light for even greater quality of life



PRC 50 terrace roof –  
protected open-air seating

Sunlight is vitalising and transmits a feeling of wellbeing. With a conservatory, you give the sun free access and bring more light into the house. Generous glass areas and slimline Schüco aluminium profiles ensure maximum light penetration. Or would you like a covered seating area in the open air? Thanks to the Schüco terrace roofs, now you can use your terrace in a variety of ways and, at the same time, benefit from a transparent rain cover. All of this will bring you great pleasure!



# Living among the greenery

Nature is the calm antithesis to the stress of everyday life. Being amongst greenery – surrounded by plants – encourages you to relax and leave all your cares behind. What a delight it would be to be able to spend time there enjoying nature outside of the warmer months. A conservatory makes this wish come true – every day, twelve months of the year. You create a stimulating new living space for yourself which connects your home harmoniously to nature. In this way you can

enjoy the view of the greenery without having to consider the wind and weather. And thanks to the consistently pleasant climate and all-round glazing, even exotic plants can flower in all their splendour – a real enhancement in terms of living comfort and quality of life.



Living among the greenery and yet protected from wind and rain



Paradise for plants and people



## More living space ...

Having a conservatory built not only enhances your quality of life, but also enlarges your living space – in an exceptionally elegant fashion. And irrespective of whether you use the new space as a wonderful dining room, cosy living room or bright study, your outlook is always outstanding.



A fabulous outlook: the ultimate in luxury living



Open for beautiful moments:  
your individual conservatory



## ... more comfort

Gain independence from the weather. Embellishing your house with a conservatory enables you to enjoy sunny days in spring, summery days in autumn and rainy days in summer in a far more pleasant and intense way than ever before. Thanks to the all-round glazing, you will be sitting comfortably, protected from the wind and rain – even if you are sitting in the garden.



How an extension becomes a residential paradise

Your very own place in the sun









# Conservatories – more than just a usable space

A beautiful conservatory is the dream of many home owners. And the variety of types and forms of conservatory on offer is matched only by the variety of the benefits for the home owner once they opt to add a conservatory.

There are many good reasons to build a conservatory. Practical reasons, because people simply need more space. Emotional reasons, because people would like to live closer to nature. Or aesthetic reasons, because an elegant extension adds a certain air to even a normal terraced house.

From a financial perspective, a conservatory is also an investment that pays off. On the one hand, a high quality conservatory increases the appeal and value of a home. And on the other hand, the conservatory is an intelligent buffer zone which helps you to save energy in both summer and winter.

Good reasons by the pageful – a conservatory is a worthwhile investment all round





## Increased value – for a lifetime



Whether a smaller ...

A conservatory means added value in both senses. On the one hand, the garden oasis radiates great warmth and gives you a little bit of that holiday feeling every day. That's the life! On the other hand, the investment also

pays off financially. By adding an aluminium conservatory or terrace roof as part of a renovation, you are enhancing the value of your house and investing in the future.



... or larger solution, e.g. as a round pavilion: the increase in value is always "built in"

# The conservatory as a buffer zone



The perfect climate –  
at any time of year

More light and space for a sense of well-being are not the only advantages of a Schüco conservatory. The large glass envelope works almost like a vast storage container for solar heat, reducing the requirement for external heat supply through conventional heating systems. The difference between the outside air temperature and the indoor temperature of a house with a conservatory is smaller than that for a house without a conservatory. This is how you can create an ideal protective zone between the outdoor and indoor climate – the so-called buffer zone. This energy-saving effect works day and night – and even without direct sunshine.

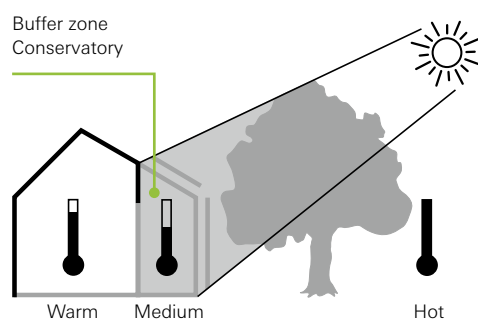
In summer, it can become very warm outside. With the appropriate solar shading systems, you can even enjoy spending time in the conservatory when it is hot.

- Awnings
- External blinds
- Solar shading glazing with a high degree of reflection reduces the build-up of heat
- Natural or mechanical ventilation devices

You will find more information about these system accessories on pages 19 and 20.

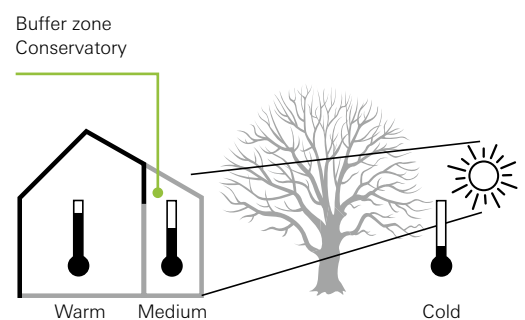
## Thermal insulation in summer

### Summer



In summer, shading is provided

### Winter



In winter, the sun can give off its heat without hindrance





# Conservatories and terrace roofs – system-based variety

Square, uniform, boring – this image of a conservatory is very outdated. For Schüco, the shape, colour and function are all-important. These parameters allow you to determine the appearance of your dream conservatory on an individual basis.

A conservatory or terrace roof from Schüco can be easily adapted according to your individual wishes and requirements. You can choose from a wide variety of forms – from classic to modern, from decorative to practical. You have the freedom to select your ideal colour for the profile surfaces from the entire colour range. And you have access to an extensive range of accessories, which you can use to make the

functions of your conservatory more individual to you.

At the same time, the combination you opt for is immaterial. Since Schüco only offers system-based conservatories, you can be sure that all of the units you choose will combine perfectly to form a whole.



When it comes to conservatories, there are no limits to the choice of colours. The profile surfaces can be designed in different colours inside and outside to satisfy individual requirements. Your specialist dealer will be happy to give you personal advice in this regard.



# Individual architectural style

There is always a spot suitable for a conservatory or a terrace roof: the uncovered terrace in the garden, the unused area on an extension with a flat roof or the space integrated into a newbuild.

Whether a small or large solution – the variety of individual design options provides you with unimaginable scope to use your conservatory for:

- Modernising an existing building
- A newbuild
- Hotels, cafés or restaurants
- Light-flooded wellness oases such as swimming pools

One or two-storey solutions can be harmoniously adapted to any architectural style.



**Existing building**  
Elegant modernisation



**Newbuild**  
The perfectly integrated conservatory – weatherproof and worth living in



**Swimming pools**  
Wellness without low pressure areas every day



**Hotel**  
More comfort for the guests at the Hanseatic Hotel, Rügen



# System-based living spaces

Thermal and moisture-related loading on conservatories requires sophisticated structural measures. With the PRC 50 terrace roof or the high-quality Schüco Conservatory CMC 50, you create individual rooms of well-being on the basis of an optimised system, thus turning clients' dreams into light-filled living spaces.



## **PRC 50 terrace roof**

- Stylish, economical system solution for large terrace areas or as a carport
- Concealed structure means a streamlined appearance
- Also available in an oversized version, e.g. as a carport



## **Schüco Conservatory CMC 50**

- Load-bearing structure on the inside
- Slim face width of the roof profiles of only 50 mm for maximum light penetration
- High thermal insulation ( $U_i$  of HI rafters  $< 1.0 \text{ W/m}^2\text{K}$ ) optionally available
- Interesting construction types with structural components on the inside



# Everything covered

From the conservatory with a simple, straight mono-pitch roof through to the polygonal, elegant pavilion style – new floor plan shapes continually emerge from the combination of various elements.

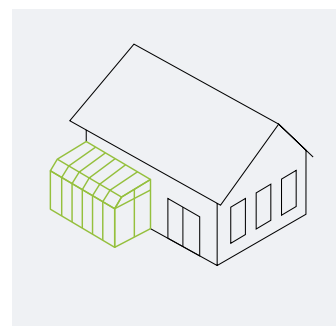
Basic dimensions and roof slopes can be adjusted to meet your individual design requirements. Schüco conservatories are custom built to the millimetre; there are no fixed dimensions.



Mono-pitch roof



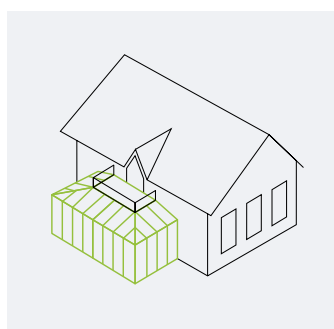
Mono-pitch roof – as an around-the-corner solution



Mono-pitch roof – with twin slope



Mono-pitch roof – as an integrated in-roof solution



Mono-pitch roof – with integrated balcony



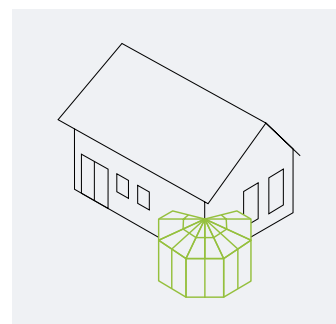
Mono-pitch roof – with polygon on one side



Mono-pitch roof – with polygon on both sides



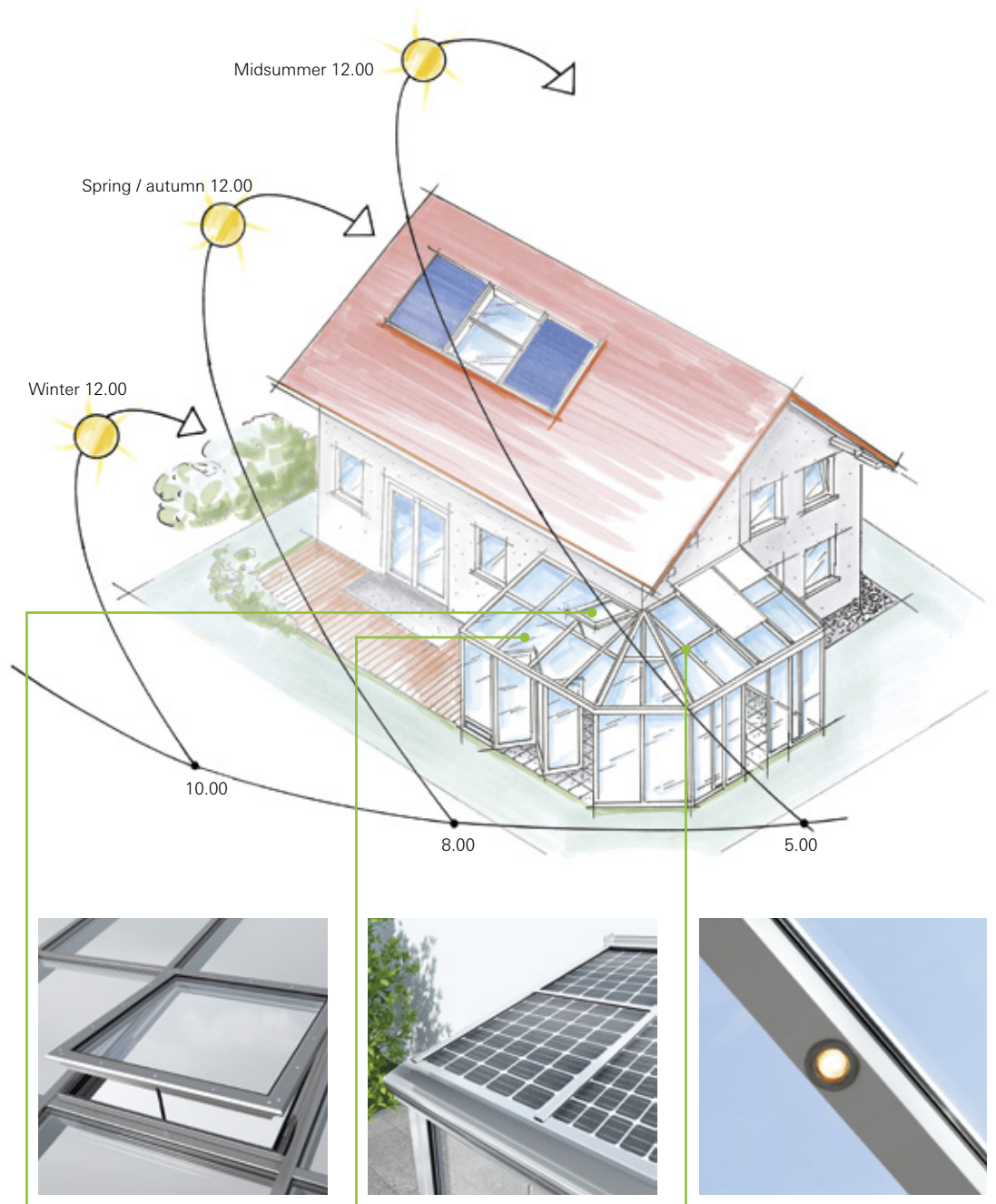
Mono-pitch roof with polygon – as an around-the-corner solution



Polygon – as an around-the-corner solution

# Accessories: the major advantage

With the comprehensive range of accessories, Schüco provides you with more options for adapting the system to the specific location and your own personal requirements. You should also factor the movement of the sun into the design as much as possible.



## Roof ventilation windows

Essential accessories for conservatories. The window ensures a pleasant air exchange and prevents a build-up of heat on sunny days.

## Generating energy with photovoltaics

With building-integrated photovoltaics (BIPV), you can turn your conservatory into a solar power station. A further benefit: tailored transparency allows a view to the outside whilst also providing solar shading.

## Lighting

Low voltage lighting is integrated in the rafters. It is easy to install using spring clips. Any number of rafters can be designed with lighting.



# A room with a view

The desire for open space and fresh air, a personal place for relaxation in the garden, the wish to enjoy the skyline visible from the roof garden – everyone has their own dream of what they would like to see from their window. Balconies, patios and conservatories are the link between busy, everyday life and spirited relaxation. And who wouldn't want to open up their living space with a few quick turns of a handle when the weather is nice? Make your dream come true.

## Lift-and-slide doors

Lift and slide doors made from aluminium or PVC-U give you access to the balcony, terrace or conservatory almost without any sound or effort on your part. Enjoy the fresh feel of your living space and easy access to your garden.

Sliding units with e-slide – the most comfortable way to move windows and doors electrically.



ASS 50 and ASS 70.HI aluminium lift-and-slide door



Schüco EasySlide PVC-U lift-and-slide door

## Folding sliding doors

Truly amazing space savers: folding sliding doors allow you to open entire glass walls almost completely – by folding the individual units up and pushing them to one side. You can fold the leaves of this door inwards or outwards quickly and easily and move them to the left and/or right. The door leaves roll almost silently on roller carriers and are securely guided at the top and at the bottom.



Folding/sliding doors



## Tilt/slide doors

Tilt/slide window doors represent the perfect combination of sliding doors and turn/tilt windows. Tilt/slide units "float" on ball-bearing rollers and even large designs are very easy to move. Whether you just want to ventilate or want to open the entire area, operation is simple. The tilt/slide units can be designed with different colours on the inside and outside and are also available with burglar resistance up to resistance class WK2.



Tilt/slide door closed



Tilt/slide door in tilt position



Tilt/slide door open

# PRC 50 terrace roof – an outdoor space flooded with light



Oversized version can also be used as a carport



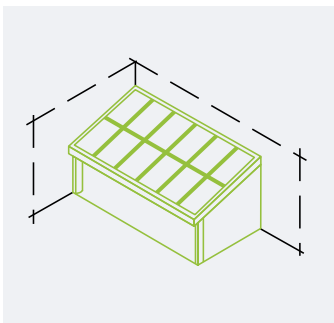
PRC 50 terrace roof – protected open-air seating

Whereas conventional terraces with wooden pergolas and dark canopies used to make rooms gloomy, Schüco terrace roofs make rooms bright and flooded with light again. The timeless design of the transparent roof terraces allows them to be incorporated as an integral and attractive feature of any façade. They also offer an enormous number of practical benefits, for example, the internally located structural beams allow dirt and leaves to be removed more easily by wind and rain. The high-quality construction ensures a long product life.

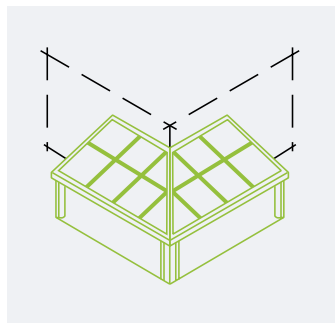
Reap the benefits of the PRC 50 terrace roof.

- Attractive design options
- Uniform external appearance
- Flat profile contours on the roof surface ensure a high degree of self-cleaning
- Durable construction due to powder coating and panes of laminated safety glass
- Can be extended with side wind protection – or even to a non-insulated conservatory with non-insulated sliding/folding systems
- Narrow rafter face widths of just 50 mm

## Construction types



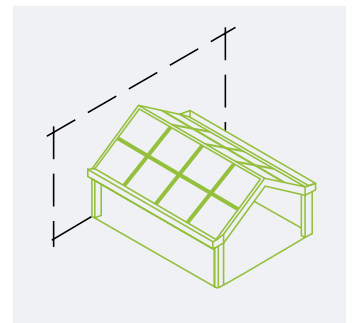
Mono-pitch roof with variable roof pitch



Mono-pitch roof – as an around-the-corner solution



Carport



Saddle roof







# Well planned, perfectly executed

As a planning aid, we have compiled the most important aspects for you in a systematic and practical checklist. In this way, the dream of your own conservatory can soon become a reality.



## Checklist for conservatory planning

1. Type of use		
Greenhouse	<input type="checkbox"/>	
Extension to living space	<input type="checkbox"/>	
Working space	<input type="checkbox"/>	
Cafeteria, hotel	<input type="checkbox"/>	
Patio roofing	<input type="checkbox"/>	
2. Orientation		
North	<input type="checkbox"/>	
East	<input type="checkbox"/>	
South	<input type="checkbox"/>	
West	<input type="checkbox"/>	
3. Heated conservatory (EnEV)		
Integrated home extension	<input type="checkbox"/>	
Without home connection	<input type="checkbox"/>	
4. Unheated conservatory		
Verandah	<input type="checkbox"/>	
Closed climate buffer	<input type="checkbox"/>	
5. Design		
Type	<input type="checkbox"/>	_____
Roof pitch	<input type="checkbox"/>	_____ °
Projection	<input type="checkbox"/>	_____ m
Width	<input type="checkbox"/>	_____ m
Eaves height of building	<input type="checkbox"/>	_____ m
Height of conservatory apex	<input type="checkbox"/>	_____ m
6. Insert units		
Aluminium	<input type="checkbox"/>	
PVC-U	<input type="checkbox"/>	
Fixed glazing	<input type="checkbox"/>	_____ (Qty)
Toplights	<input type="checkbox"/>	_____ (Qty)
Side-hung / turn/tilt function	<input type="checkbox"/>	_____ (Qty)
Tilt/slide system	<input type="checkbox"/>	_____ (Qty)
Lift-and-slide system	<input type="checkbox"/>	_____ (Qty)
Folding sliding system	<input type="checkbox"/>	_____ (Qty)
With burglar resistance	<input type="checkbox"/>	_____ (Qty)

## Checklist for conservatory planning

7. Glazing		
Thermal insulation glazing	<input type="checkbox"/>	_____ mm
Solar shading glass	<input type="checkbox"/>	_____ mm
Safety glass (burglar resistance)	<input type="checkbox"/>	_____ mm
8. Solar shading		
Natural shading (trees)	<input type="checkbox"/>	
External blinds	<input type="checkbox"/>	
Awnings	<input type="checkbox"/>	
9. Ventilation		
Manual roof window	<input type="checkbox"/>	_____ (Qty)
Electrically-operated roof window	<input type="checkbox"/>	_____ (Qty)
Manual toplights	<input type="checkbox"/>	_____ (Qty)
Electrically-operated toplights	<input type="checkbox"/>	_____ (Qty)
Manual inlet ventilator	<input type="checkbox"/>	_____ (Qty)
Electrically-operated inlet ventilator	<input type="checkbox"/>	_____ (Qty)
Electrically-operated extractor	<input type="checkbox"/>	_____ (Qty)
10. Control unit		
For the solar shading	<input type="checkbox"/>	
For the roof windows	<input type="checkbox"/>	
For the ventilators	<input type="checkbox"/>	
With VentoControl central unit	<input type="checkbox"/>	
11. Solar installation		
Photovoltaic modules	<input type="checkbox"/>	
12. Lighting		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No
13. Foundations / floor plate available		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No
14. Direct drainage into sewers		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No
15. Documentation available for building application		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No



## Conservatories and terrace roofs made from aluminium – the right decision



A conservatory or a terrace roof is made up of many individual elements. All of these must fit together perfectly to enable your ideas to become reality and your requirements to be met. With the intelligent Schüco system solutions, you are always on the safe side. You receive all of the components from a single source – from the roof, the awning and the ventilators through to the doors and other

accessories. A variety of designs and fast installation are also included. That means premium quality – perfectly fabricated in aluminium, which is durable and holds its value. All of this produces conservatories and terrace roofs that set the standard. At the same time, every project is unique, and is manufactured specially in accordance with your wishes and requirements – by your local Schüco partner.

### Schüco International KG

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### Schüco – System solutions for windows, doors and façades

Together with its worldwide network of partners, architects, specifiers and investors, Schüco creates sustainable building envelopes which focus on people and their needs in harmony with nature and technology. The highest demands for design, comfort and security can be met, whilst simultaneously reducing CO<sub>2</sub> emissions through energy efficiency, thereby conserving natural resources. The company and its Metal and PVC-U divisions deliver tailored products for newbuilds and renovations, designed to meet individual user needs in all climate zones. With 4800 employees and 12,000 partner companies, Schüco is active in 78 countries and achieved turnover of 1.5 billion euros in 2013. For more information, visit **[www.schueco.com](http://www.schueco.com)**.

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