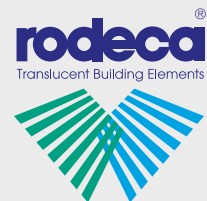# PRODUCT GUIDE

## About Rodeca

Rodeca was founded in 1971 and is a medium-sized company with more than 45 years of experience in production, development and sales of translucent products for façades and roofs made of high quality polycarbonate.

Our qualified sales and technical staff based in Muelheim an der Ruhr provides support from design stage to project completion. Our sales offices in Europe plus a well-developed international sales network enables us to provide customer-related project assistance worldwide.

We supply products to our customers with our own lorries, forwarding agents and for collection at our premises. The products are produced in Muelheim an der Ruhr, located in the heart of the Ruhr area and then packaged and prepared for dispatch respectively for collection. Short lines of communication and qualified staff help with words and deeds.

Rodeca offers a unique and broad range of products in terms of colours and systems for varying applications. Our production facility in Muelheim an der Ruhr runs around the clock, manufacturing customer specific orders worldwide. The production facility in Kamp Lintfort fabricates the Rodeca window series designed for integration into Rodeca façade and roof systems. We always guarantee best quality "made in Germany".

**What are your advantages?**

• Customer focused service, individual advice and professional technical support
• Light weight materials provide cost savings in installation and transportation
• Long lasting, translucent systems with outstanding properties
• Choose from a wide range of colours
• Polycarbonate is recyclable and thus very eco-friendly
• We are a reliable and professional business partner at your side

Our mission is to assist our customers in their daily work with our creativity, competence and innovation. Amongst those are architects, designers, contractors for industrial, façade and glass construction as well as trading companies for building plastics, roofing and construction materials.

Thanks to creative architecture, buildings old and new can be designed to provide visually exciting and energy efficient solutions. Our goal is to bring new ideas and innovation to the markets. With us you have a reliable, professional and creative business partner aside providing you cost effective solutions. Rodeca has a share every day in fulfilling customer demands and to bring more daylight through facade and roofs into the world.

# Content

# Translucent Building Elements

## Applications

- glazings
- sports and industrial halls
- roofing construction
- northern lights
- window glazing
- interior applications, e. g. partition walls or exhibition stand constructions
- refurbishments for wall and roof
- rain screens
- curtain façades

## Production program/ available thicknesses

| 30 | Panel | Up value[1] W/m²K | Building width[2] | Fire rating |
|---|---|---|---|---|
| | 2333-30-6 | 1.3 - 1.4 | 333 mm | B - s1, d0 |

### PC 2333-30-6

Colours
standard: crystal / opal

Color[3] version from 300 m²

| 40 | Panel | Up value[1] W/m²K | Building width[2] | Fire rating |
|---|---|---|---|---|
| | 2540-4 | 1.3 - 1.5 | 500 mm | B - s1, d0 |
| | 2540-4 MC | 1.3 - 1.6 | 500 mm | B - s1, d0 |
| | 2540-6 | 1.1 - 1.2 | 500 mm | B - s1, d0 |
| | 2540-7 | 1.0 - 1.1 | 500 mm | B - s1, d0 |
| | 2540-10 | 1.0 | 500 mm | B - s1, d0 |
| | 2540-10-DX | 1.1 | 495 mm | B - s1, d0 |

### e.g. PC 2540-4 MC

Colours
standard: crystal / opal

Color[3] version from 300 m²

| 50 | Panel | Up value[1] W/m²K | Building width[2] | Fire rating |
|---|---|---|---|---|
| | 2550-10 | 0.80 - 0.92 | 495 mm | B - s1, d0 |

### PC 2550-10

Colours
Standard: crystal / opal / Color
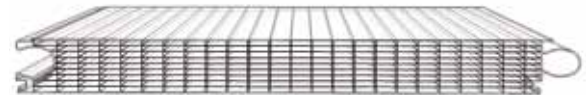
DuoColor version from 300 m²
Color[3] version from 300 m²

| 60 | Panel | Up value[1] W/m²K | Building width[2] | Fire rating |
|---|---|---|---|---|
| | 2560-12 | 0.71 - 0.77 | 500 mm | B - s1, d0 |

### PC 2560-12

Colours
Standard: crystal / opal
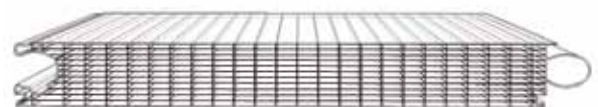
DuoColor version from 300 m²
Color[3] version from 300 m²

[1] Depending on horizontal or vertical installation as interior or exterior application according to DIN EN ISO 6946:2008 / DIN EN ISO 10077-2:2008
[2] Width tolerance of - 2 / + 6 mm, for tolerances see our general information
[3] For minimum quantities, colour combinations and versions see our technical manuals
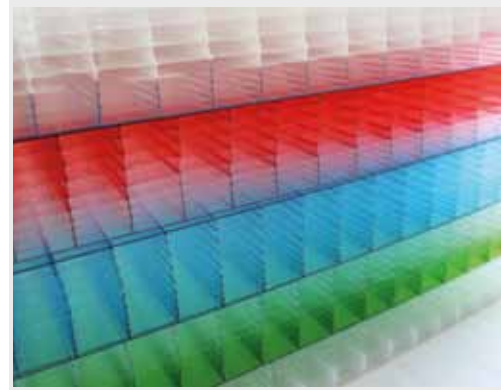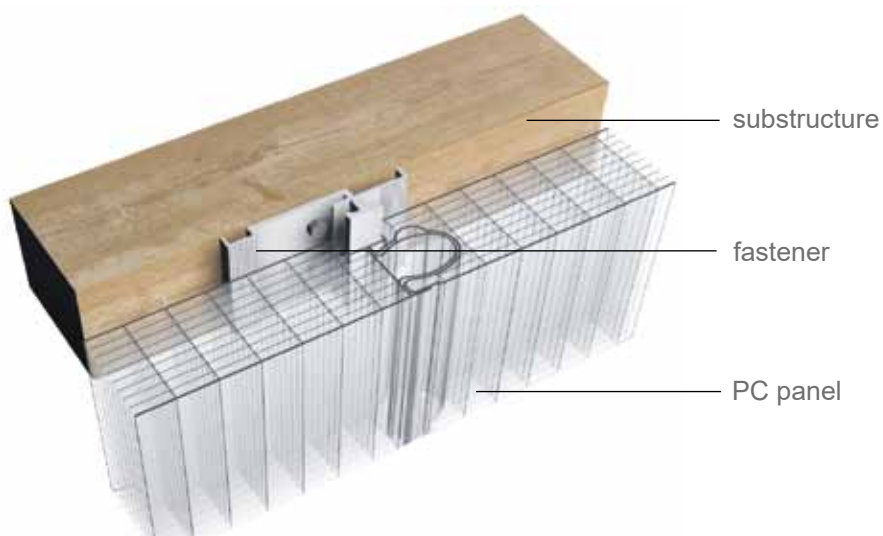
## Fixing of tongue and groove panels

The fasteners slide into the panel groove and are fixed at the substructure. The fasteners provide a continuous and seamless glazing, which gives a light and smooth appearance to the façade.

## Example of fastener
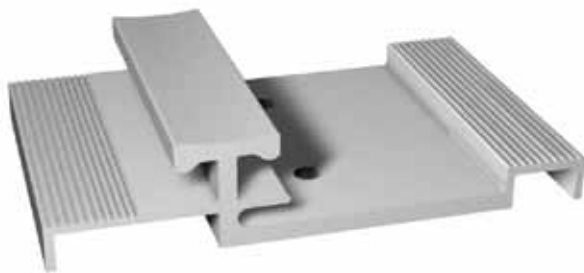
## Flat fastener fixing on substructure provided from client

substructure

fastener

PC panel

## Advantages

- Polycarbonate is a crystal clear, high impact thermoplastic
- Temperature resistance from - 40 to +115°C, temporarily up to 130°C
- Impact resistance virtually unchanged within these temperatures
- Good long term performance through UV protection
- 10 years warranty
- Translucent with excellent thermal properties

Installation advice, application requirements and further technical information can be found in our technical manuals and installation manuals.

## Framing systems and installation

Our framing systems for panel mounting are available in thermally broken and non-thermally broken versions. The examples below show the use of Rodeca framing systems for installation in reveal, as rainscreen and as pitched rainscreen construction.

### Installation in reveal

### rainscreen

### pitched rainscreen





## Prefabricated 90° corners for framing systems

We offer prefabricated 90° corners. The corners are made of 0.55 m long frame profiles, including front plates. Prefabricated 90° corners are available for all framing systems in 40, 50 and 60 mm thickness.
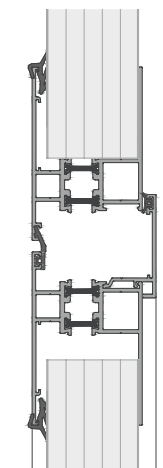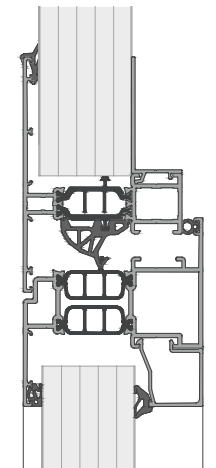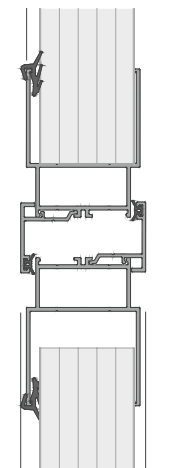
Installation advice, application requirements and further technical information can be found in our technical manuals and installation manuals.

# General information windows

Rodeca windows are designed to integrate with Rodeca facades. Rodeca windows can be glazed with our poly-carbonate panels or with insulating glass. Divided into three different product series we can cover all demands from sashes to skylights. For more detailed information about our window series check our technical manual.
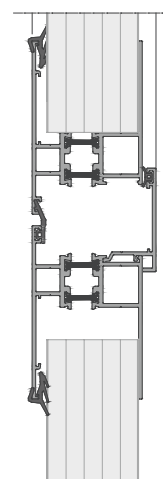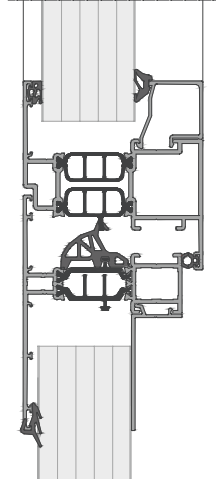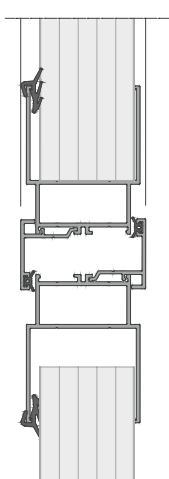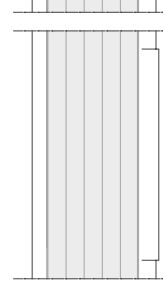


System section
Series 80

System section
example Series 85

System section
Series 86

Series 80

Series 85

Series 86

Installation advice, application requirements and further technical information can be found
in our technical manuals and installation manuals.

info@rodeca.de

## Production program windows

### Series 80

Non-thermally broken aluminium window. Glazing is possible with 40 mm panels respectively with insulating glass up to 20 mm

top hung window
outwards opening

horizontally pivoted
sash window

special pivot-tilt
window

special top hung
window

fixed glazing element

combination element
vertical / horizontal

rooflight top hung window

### Series 85

Thermally broken aluminium window system. Glazing is possible with 40 / 50 / 60 mm panels depending on the type of opening respectively with insulating glass up to 48 mm

tilt window
inwards opening

top hung window
outwards opening

tilt and turn window

horizontally pivoted
sash window

fixed glazing element

combination element
vertical / horizontal

rooflight top hung window

### Series 86

Thermally broken aluminium window system. Glazing is possible with 40 / 50 / 60 mm panels

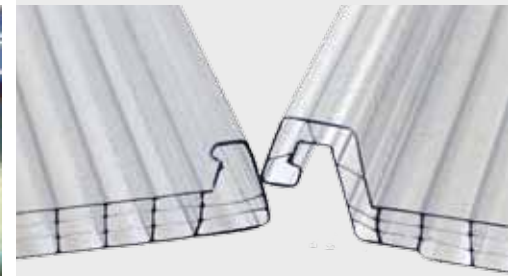horizontally pivoted
sash window

special pivot-tilt
window

special top hung
window

combination element
vertical / horizontal

## Multi Function Panels

## Multi Function Panels

Multi Function Panels are suitable for transparent roofing of buildings and open spaces and allow creative freedom due to their flexible lengths and possible radii.
The 600 mm wide transparent systems are suitable for both, curved and straight applications, and find their wide range of use in roofs, rooflight strips and large-scale hall coverings. The slim widths of 250 mm are particularly suitable for smaller roofs such as in DIY projects.
Light weight, high insulation and high impact properties provide an extremely weather resistant roofing solution. The absence of glazing bars and minimal use of alloy components creates an almost seam free, economical interior finish.

## Production program

| Panel | Thickness | Building width[1] | Up-value[2] W/m²K | Fire rating |
|---|---|---|---|---|
| PC 2253-2 | 3 mm | 250 mm | approx. 4.5 | B - s1, d0 |
| PC 2250-10-4 | 10 mm | 250 mm | approx. 2.5 | B - s1, d0 |
| PC 2610-4 | 10 mm | 600 mm | approx. 2.7 | B - s1, d0 |
| PC 2625-5 | 25 mm | 600 mm | approx. 1.6 | B - s1, d0 |

## Cold bending

Multi Function Panels can be cold-curved over an appropriate substructure. The minimum radius depends on the panel thickness.

| | |
|---|---|
| PC 2253-2 | min. radius 2.00 m |
| PC 2250-10-4 | min. radius 3.00 m |
| PC 2610-4 | min. radius 3.00 m |
| PC 2625-5 | min. radius 8.00 m |



## Advantages

- quick and easy to mount
- light weight products
- integrated coupling/connection
- minimized cold bridges
- heat insulating
- good long term performance through UV protection
- 200 x thougher than glass
- polycarbonate doesn't splinter

## Applications

- roofing construction
- sports and industrial halls
- canopies
- roof lights - flat and curved
- pyramids
- natural smoke and heat exhaust
- carports
- patio coverings

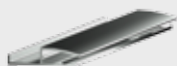[1] Width tolerance of - 2 / + 6 mm
[2] Reference value

## Accessories PC 2253-2

fastener

PC lateral end profile

PC end cap silver

sealing tape

filling piece

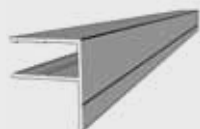## Accessories PC 2250-10-4

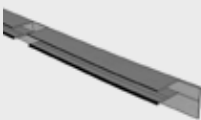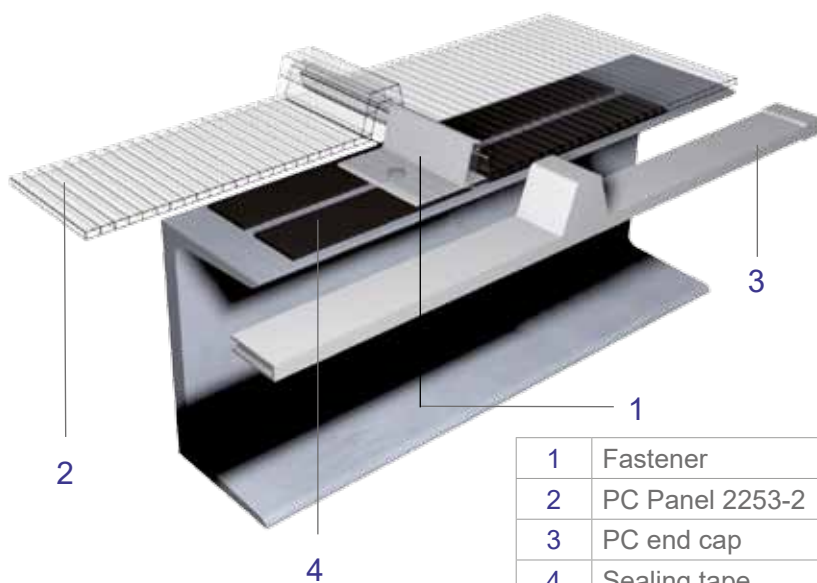fastener

PC end cap

lateral end profile

end profile

sealing tape

filling piece

## System example PC 2253-2

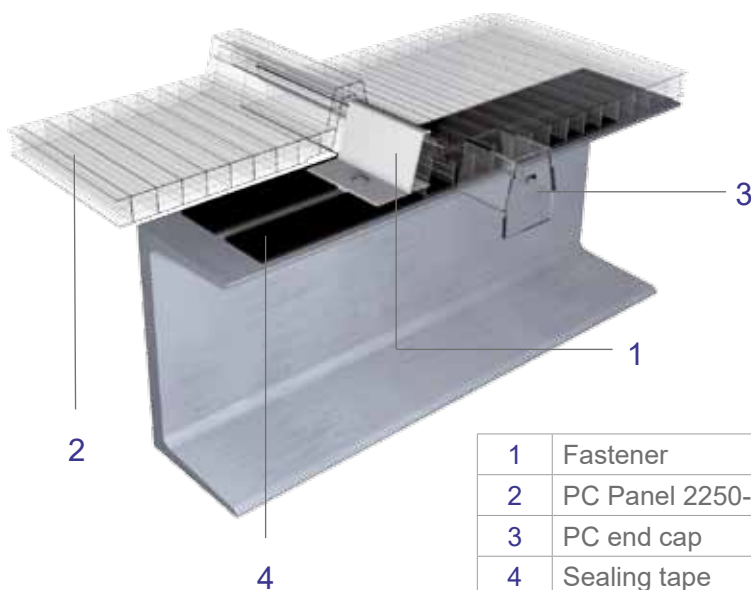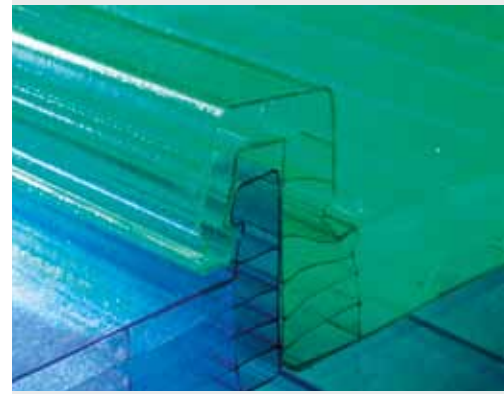The Multi Function Panel PC 2253-2 is a 3 mm thick panel with two layers and a building width of 250 mm.

| 1 | Fastener |
|---|---|
| 2 | PC Panel 2253-2 |
| 3 | PC end cap |
| 4 | Sealing tape |

## System example PC 2250-10-4

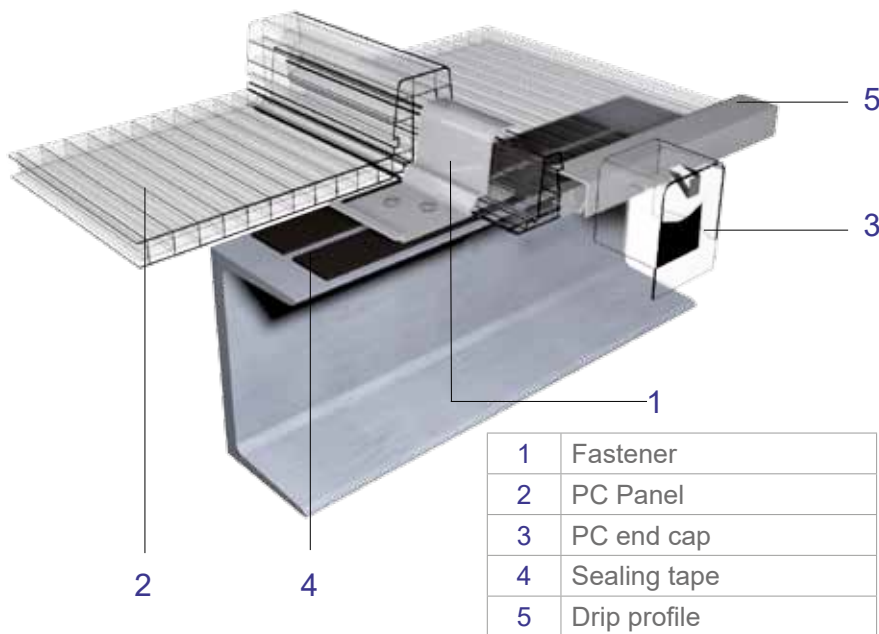The Multi Function Panel PC 2250-10-4 is a 10 mm thick panel with 4 layers and a building width of 250 mm.

| 1 | Fastener |
|---|---|
| 2 | PC Panel 2250-10-4 |
| 3 | PC end cap |
| 4 | Sealing tape |

Installation advice, application requirements and further technical information can be found in our technical manuals and installation manuals.
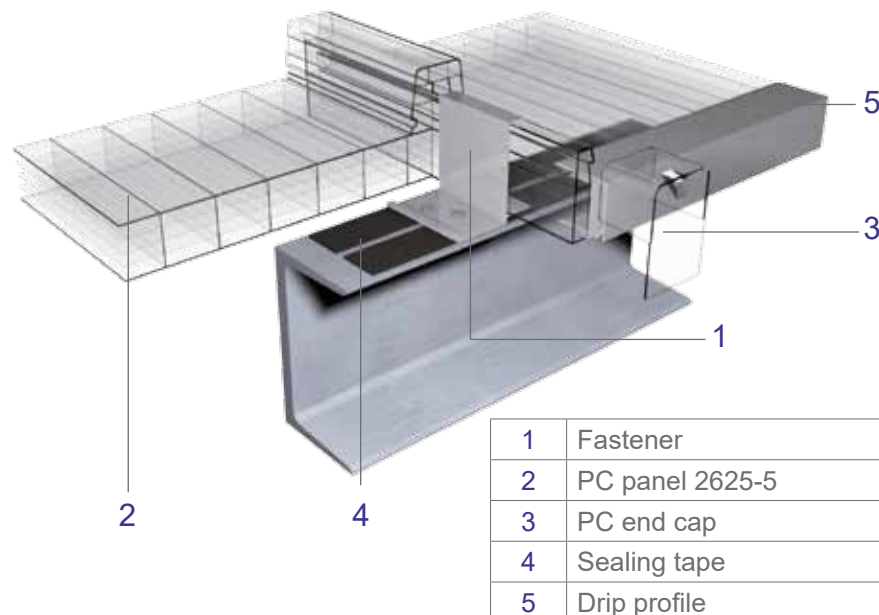
## System example PC 2610-4

The Multi Function Panel PC 2610-4 is a 10 mm thick panel with 4 layers and a building width of 600 mm.



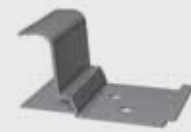| 1 | Fastener |
|---|----------|
| 2 | PC Panel |
| 3 | PC end cap |
| 4 | Sealing tape |
| 5 | Drip profile |

## System example PC 2625-5

The Multi Function Panel PC 2625-5 is a 25 mm thick panel with 5 layers and a building width of 600 mm.



| 1 | Fastener |
|---|----------|
| 2 | PC panel 2625-5 |
| 3 | PC end cap |
| 4 | Sealing tape |
| 5 | Drip profile |

Installation advice, application requirements and further technical information can be found in our technical manuals and installation manuals.

## Accessories


fastener


PC end cap


end profile with clamp batten


gasket


cover plate
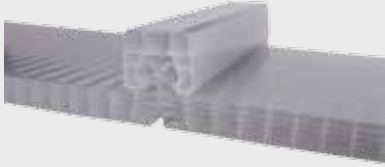

drip profile


retention washer


sealing tape


filling piece

# U-Panels



## Accessories



PC glazing bar for all U-Panels



PC end cap for all U-Panels



fastener for PC 2600-10-4-U



fastener for
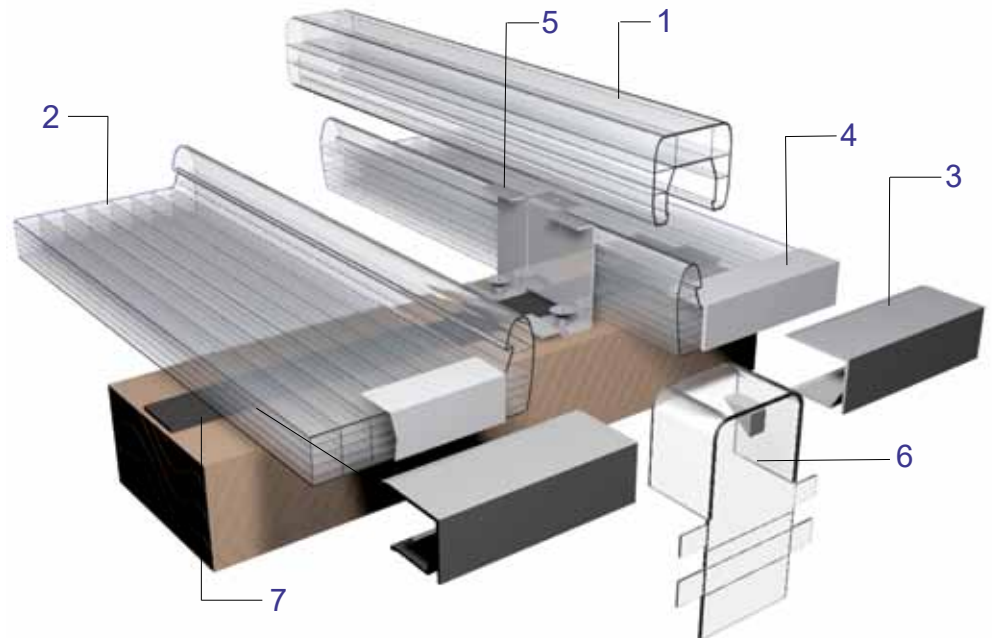PC 2630-16-6-U
PC 2630-20-6-U
PC 2630-25-6-U



fastener for PC 2600-40-7-U

## U-Panels production program and accessories

| Panel | Thickness | Building width[1] | Up value[2] W/m²K | Fire rating |
|-------|-----------|-------------------|-------------------|-------------|
| PC 2600-10-4-U | 10 mm | 600 mm | approx. 2.6 | B - s1, d0 |
| PC 2630-16-6-U | 16 mm | 630 mm | approx. 1.9 | B - s1, d0 |
| PC 2630-20-6-U | 20 mm | 630 mm | approx. 1.7 | B - s1, d0 |
| PC 2630-25-6-U | 25 mm | 630 mm | approx. 1.6 | B - s1, d0 |
| PC 2600-40-7-U | 40 mm | 605 mm | approx. 1.1 | B - s1, d0 |

Standard colours: crystal / opal; please inquire other versions / colours

## Overview systems PC 2630-16-6-U / PC 2630-20-6-U



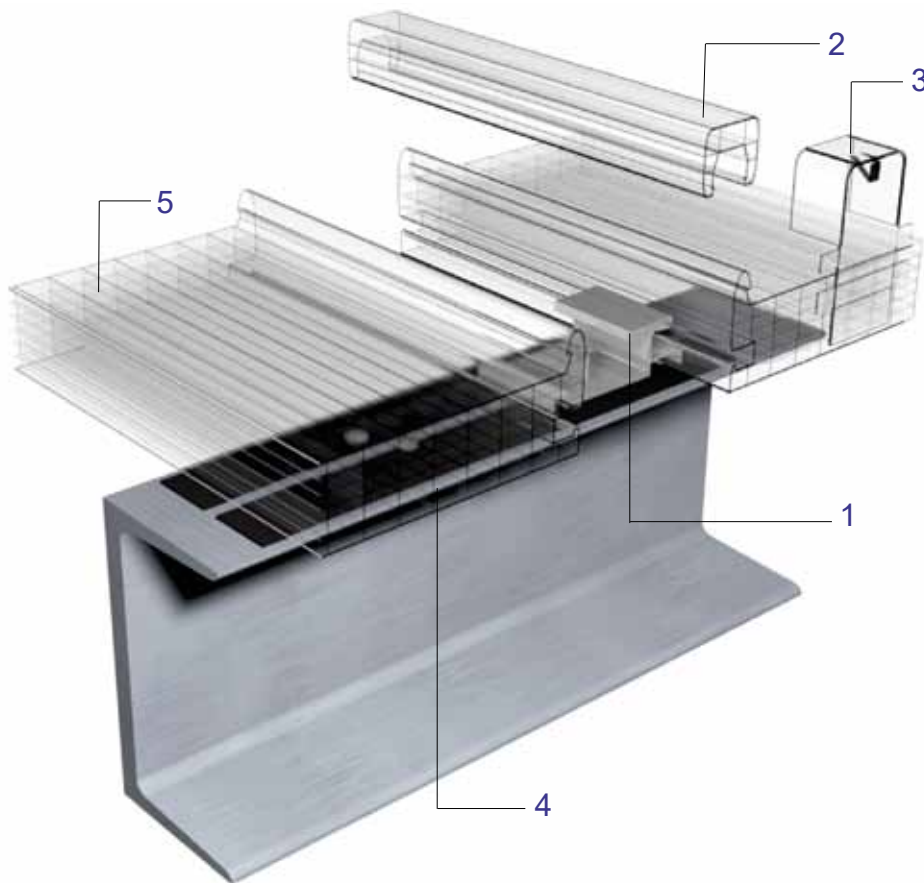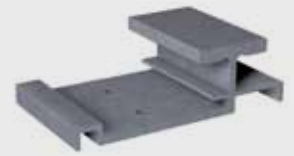| 1 | PC glazing bar |
|---|----------------|
| 2 | U-Panel PC 2630-16-6-U / PC 2630-20-6-U |
| 3 | Aluminium drip profile |
| 4 | Sealing panel end |
| 5 | Stainless steel fastener |
| 6 | PC end cap |
| 7 | Sealing tape |

[1] Width tolerance of - 2 / + 6 mm
[2] Reference value

# Roofing system example PC 2600-40-7-U

This is the only panel fixed with flat fastener which allows large free spans and avoids thermal bridges. For pitched mounting a minimum slope of 5° needs to be considered. For curved panels a minimum radius of 10 m is required.



| | |
|---|---|
| 1 | Fastener |
| 2 | PC glazing bar |
| 3 | PC end cap |
| 4 | Sealing tape |
| 5 | PC panel 2600-40-7-U |

## Accessories



fastener



PC glazing bar



PC end cap



sealing tape

Installation advice, application requirements and further technical information can be found in our technical manuals and installation manuals.

# RT-Thermolight
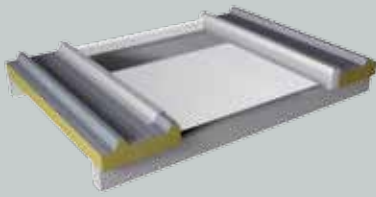


## Advantages

- easy and quick installation
- translucent
- heat insulating
- good temperature resistance
- does not splinter
- easy integration into roofing constructions with profiled sheeting or profiled sandwich panel constructions

## Production program

### PC 2685-3
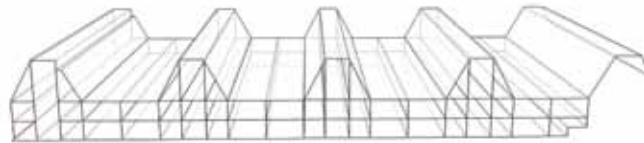


| Thickness | Cover width[1] | Up-value[2] W/m²K | Fire rating |
|---|---|---|---|
| 40/85 mm | 600 mm | approx. 1.6 | B - s1, do |

Crystal from 600 m²

### PC 21000-30-XL



| Thickness | Cover width[1] | Up value[2] W/m²K | Fire rating |
|---|---|---|---|
| 30 mm | 1005 mm | approx. 1.4 | B - s1, d0 |

Colour light opal from 900 linear metres

### PLP 1000-30 / PLP 1000-40
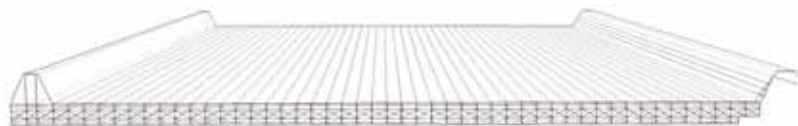


| Thickness | Cover width[1] | Up value[2] W/m²K | Fire rating |
|---|---|---|---|
| 30 mm | 1000 mm | approx. 1.3 | B - s1, d0 |
| 40 mm | 1000 mm | approx. 1.1 | B - s1, d0 |

Colour light opal from 900 linear metres

[1] Width tolerance of - 2 / + 6 mm

[2] Guide value

## PC 2685-3

Our polycarbonate panel 2685-3 has a thickness of 40 mm and a cover width of 600 mm.The panel height with corrugation is 85 mm. The panels can be interlocked to accommodate different openings. We recommend to fix the panel with flashings (provided by installer) on top of the high corrugation together with the side lap of polycarbonate panel.
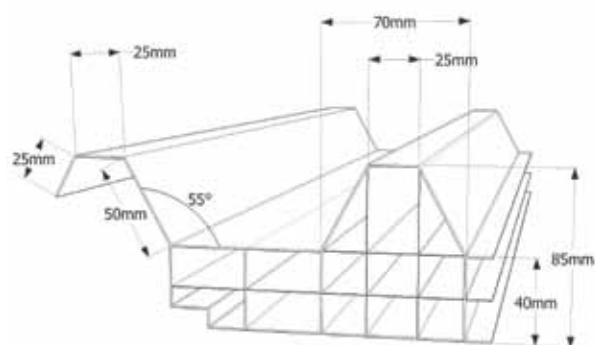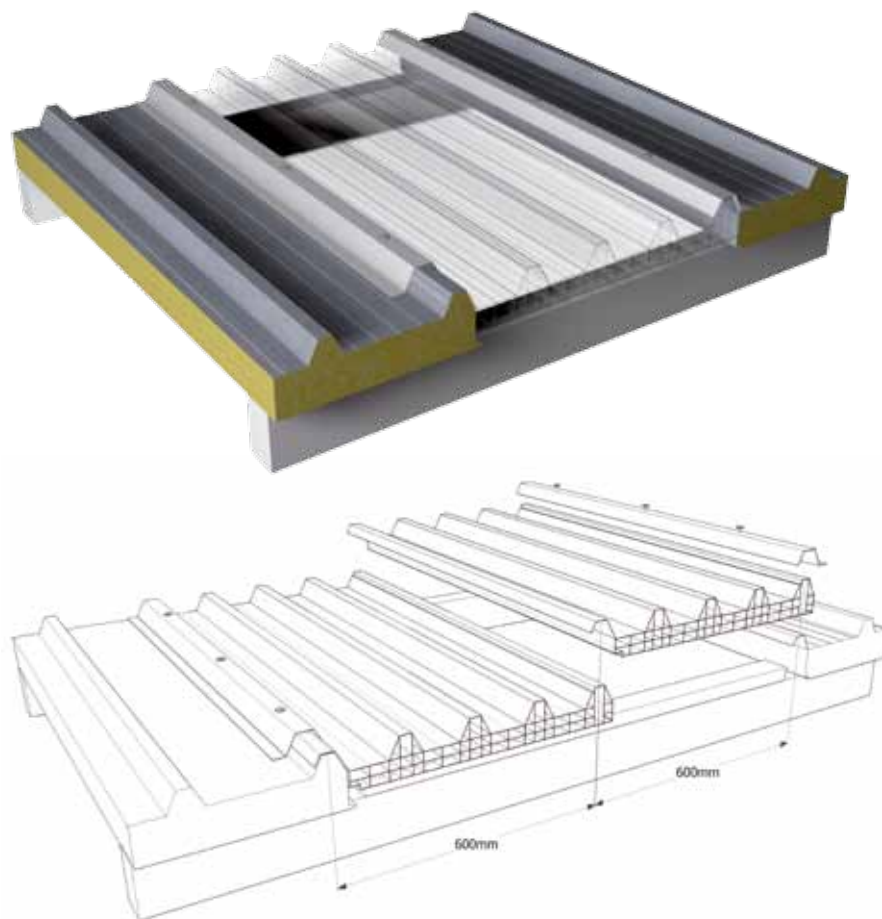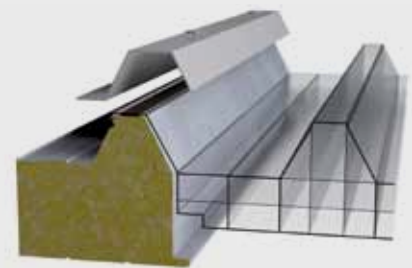






## Accessories



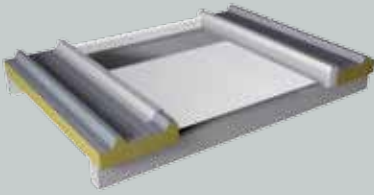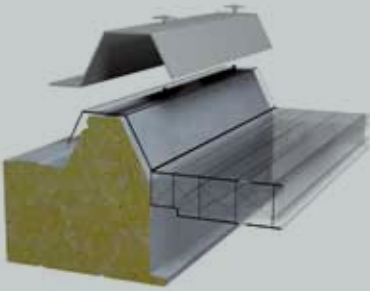recommended fixing with flashing (provided by installer) on top of the high corrugation and PC panel



alternate fixing
retention washer



sealing tape

Installation advice, application requirements and further technical information can be found in our technical manuals and installation manuals.

# RT-Thermolight

## Accessories

recommended fixing with flashing (provided by installer) on top of the high corrugation and side lap of PC panel
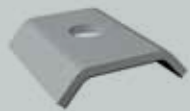
alternate fixing retention washer

sealing tape
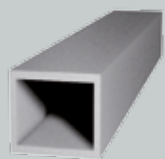
e. g. rectangular bar (provided by installer) for lining of substructure

## PC 21000-30-XL

The 21000-30-XL is a 30 mm thick panel and offers a flexible holding fixture for various high corrugations. The side laps (depends on ordered quantity) can be customized to requirements. We recommend fixing of panel to high corrugations.
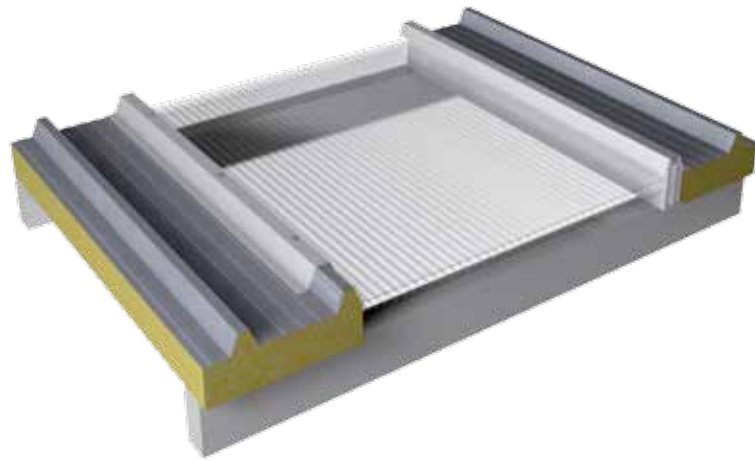
## Customisation of side laps

The PC 21000-30-XL offers the possibility to change dimensions of side laps with relatively small investments (depends on ordered quantity). This way a wide variety of shapes is possible and depending on customer requirements the high corrugation can be adapted to shape of sandwich panel intended for use.
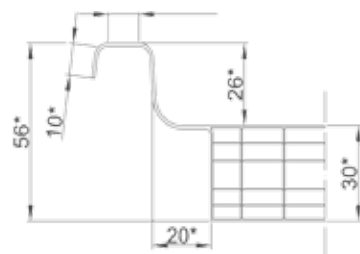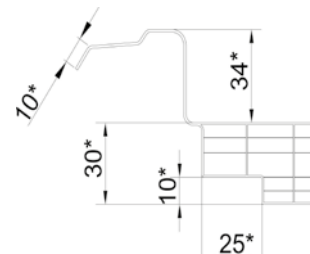Following side lap shapes can currently be offered:

### PC 21000-30-XL
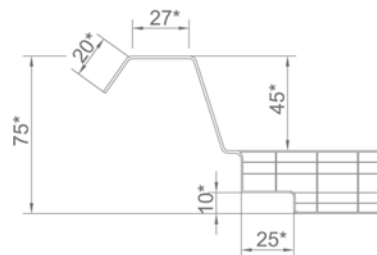
### PC 21000-30-XL-PA
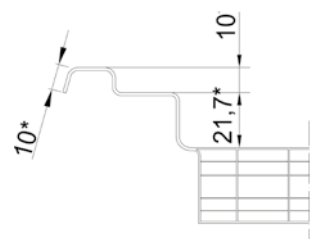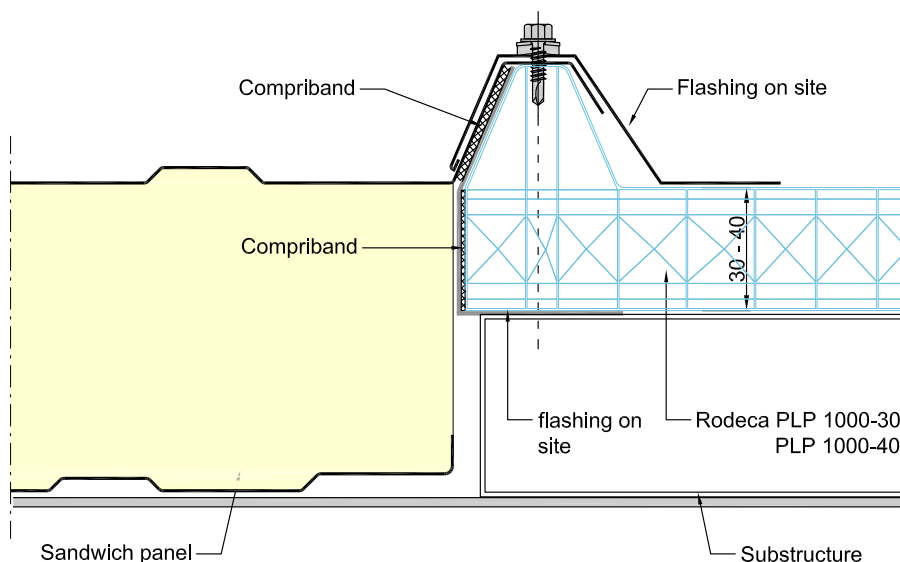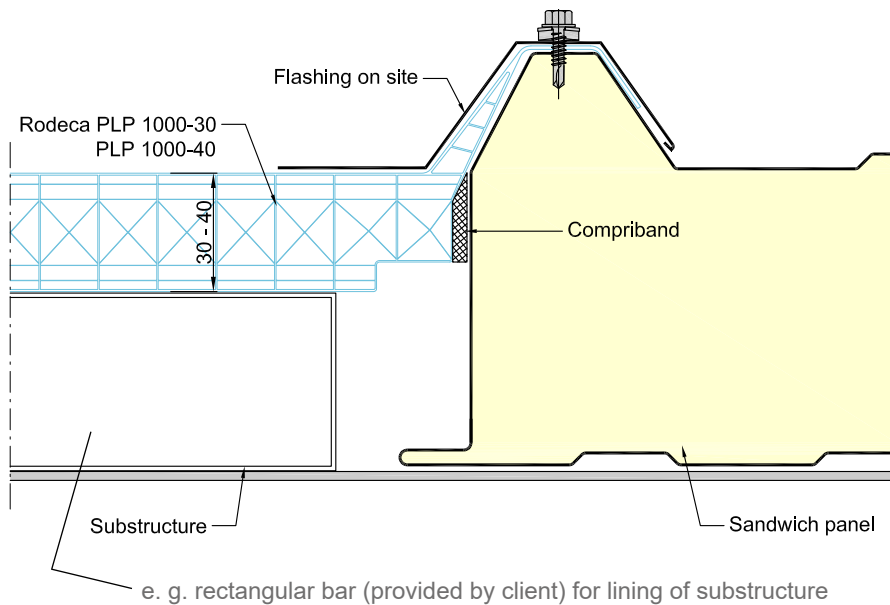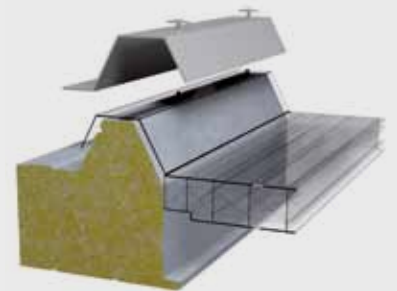
### PC 21000-30-XL-AC

### PC 21000-30-XL-PE

## PLP 1000-30 / PLP 1000-40

The PLP 1000-30 is a 30 mm thick Polycarbonate panel (alternatively 40 mm - PLP 1000-40) with a side lap on one side and a full PC high corrugation on the other side to fix various types of sandwich panels. The cover width of 1000 mm makes it the ideal solution for buildings with usual sandwich panel roofing. The recommended minimum pitch is 5°.

## Fixing to sandwich panel construction



Flashing on site

Rodeca PLP 1000-30
PLP 1000-40

30 - 40

Compriband

Substructure

Sandwich panel

e. g. rectangular bar (provided by client) for lining of substructure



Compriband

Flashing on site

Compriband

30 - 40

flashing on site

Rodeca PLP 1000-30
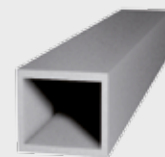PLP 1000-40

Sandwich panel

Substructure

## Accessories



recommended fixing flashing (provided by installer) on top of the high corrugation and side lap of PC panel
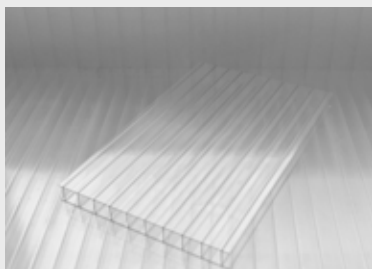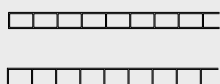


sealing tape



e. g. rectangular bar (provided by client) for lining of substructure

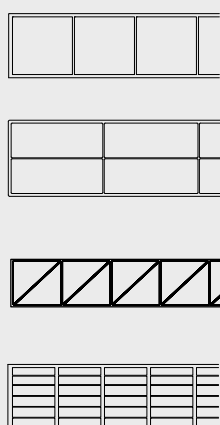# Multi Wall Sheets



# Multi Wall Sheets





4



6



10



16



## Production program / available thicknesses

Multi Wall Sheets (MWS) can be used in many different ways. They are producable in different thicknesses and widths. Variable widths can be produced with closed edges according to customers demand. All MWS are fire rated B-s1, d0 according to DIN EN 13501. Standard colour for all MWS is clear. Additional standard colours depending on product type are available.

| 4 | MWS | Up value[1] Installation vertical / horizontal | Weight kg/m² | Variable width | Standard width[2] |
|---|---|---|---|---|---|
| | 4-2 | 3.9 / 4.4 W/m²K | approx. 0.83 | 500 - 1050 mm | 2100 mm |
| | 4,5-2 | 3.8 / 4.3 W/m²K | approx. 1.0 | 500 - 1050 mm | - |

| 6 | MWS | Up value[1] Installation vertical / horizontal | Weight kg/m² | Variable width | Standard width[2] |
|---|---|---|---|---|---|
| | 6-2 | 3.5 / 3.9 W/m²K | approx. 1.3 | - | 2100 mm |
| | 6(10)-2 | 3.5 / 3.9 W/m²K | approx. 1.3 | 550 - 1250 mm | 1200 mm |

| 10 | MWS | Up value[1] Installation vertical / horizontal | Weight kg/m² | Variable width | Standard width [2] |
|---|---|---|---|---|---|
| | 10-2 | 3.0 / 3.2 W/m²K | approx. 1.7 | 550 - 1250 mm | 2100 mm |
| | 10-4 | 2.5 / 2.7 W/m²K | approx. 1.75 | 730 - 1250 mm | 2100 mm |

| 16 | MWS | Up value[1] Installation vertical / horizontal | Weight kg/m² | Variable width | Standard width[2] |
|---|---|---|---|---|---|
| | 16-2 | 2.6 / 2.9 W/m²K | approx. 2.0 | 630 - 1250 mm | 980 + 1200 mm |
| | 16-3 | 2.2 / 2.4 W/m²K | approx. 2.7 | - | 980 + 1200 mm |
| | 16-7 | 1.8 / 1.9 W/m²K | approx. 2.6 | 700 - 1230 mm | 980 + 1200 mm 2100 mm |
| | 16-N | 2.4 / 2.6 W/m²K | approx. 2.7 | 950 - 1260 mm | - |
| | 16- 5 HI | 2.0 / 2.1 W/m²K | approx. 4.0 | - | 980 + 1200 mm |

[1] Depending on horizontal or vertical installation as interior or exterior application according to DIN EN ISO 6946:2008 / DIN EN ISO 10077-2:2008
[2] Width tolerance of - 2 / + 6 mm for all widths (variable and standard)

# Production program / available thicknesses

| 20 | MWS | Up value[1] Installation vertical / horizontal | Weight kg/m² | Variable width | Standard width[2] |
|----|-----|-----|-----|-----|-----|
| | 20-2 | 2.5 / 2.8 W/m²K | approx. 2.8 | 630 - 1250 mm | - |
| | 20-7 | 1.5 / 1.6 W/m²K | approx. 2.9 | 700 - 1230 mm 2100 mm | - |

| 25 | MWS | Up value[1] Installation vertical / horizontal | Weight kg/m² | Variable width | Standard width[2] |
|----|-----|-----|-----|-----|-----|
| | 25-7 | 1.4 / 1.5 W/m²K | approx. 3.2 | 700 - 1230 mm 2100 mm | 980 + 1200 mm |

| 32 | MWS | Up value[1] Installation vertical / horizontal | Weight kg/m² | Variable width | Standard width[2] |
|----|-----|-----|-----|-----|-----|
| | 32-10 | 1.2 / 1.2 W/m²K | approx. 3.6 | 700 - 1230 mm | 1230 mm |

| 40 | MWS | Up value[1] Installation vertical / horizontal | Weight kg/m² | Variable width | Standard width[2] |
|----|-----|-----|-----|-----|-----|
| | 40-10 | 1.0 / 1.1 W/m²K | approx. 4.0 | 700 - 1230 mm | 980 mm |

## Versions

- Heatbloc-Design (depends on product type) either as DecoColor or DuoColor
- Frozen-Design, DecoColor with structuring agent for outer wall of PC 16-2
- High Impact version PC 16-5 HI for improved protection against hail
- Closed edges for all above mentioned widths upon customer request (please inquire minimum order quantity)

## Performance characteristics

All Multi Wall Sheets are CE marked in accordance to the CPR and EN 16153. The corresponding performance characteristics are given in the declarations of performance.

Installation advice, application requirements and further technical information can be found in our technical manuals and installation manuals.
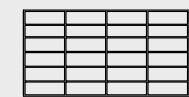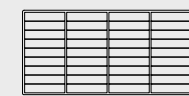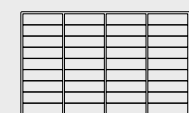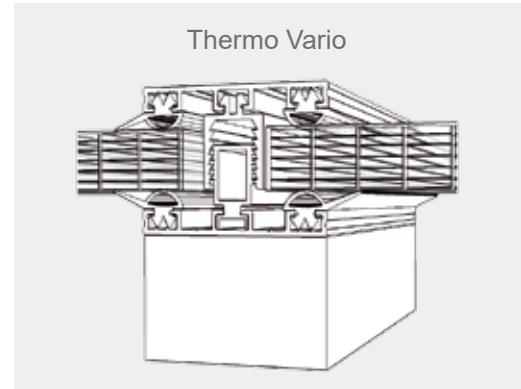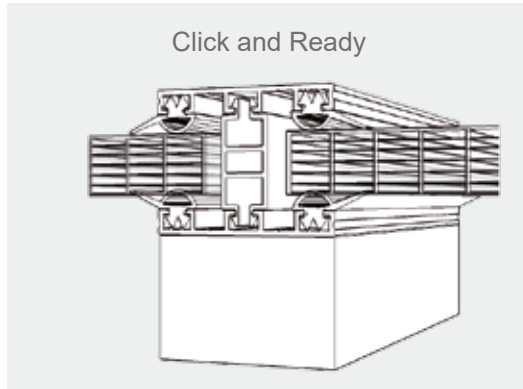
# Multi Wall Sheets



## Applications

- winter gardens
- conservatories
- roofing constructions
- pergola
- light-bands
- canopies
- interior applications

## MWS accessories of Aluminium and Polycarbonate

## Polycarbonate (PC) adapter profiles for „click and ready" applications

PC adapter profile
for 10 mm MWS

PC adapter profile
for 16 mm MWS

## Adapter profiles for Thermo Vario applications in Aluminium and PC

aluminium adapter
profile for 16 mm
aluminium profiles

aluminium adapter
profile for 25 mm
aluminium profiles

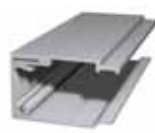aluminium adapter
profile for Thermo Vario
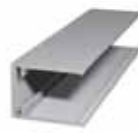aluminium profiles

PC adapter profile
for Thermo Vario

## Aluminium profiles

aluminium U profile
with drip nose for
6 to 40 mm MWS

two parts aluminium
profile with clamp batten
for 10 to 25 mm MWS

aluminium U profile
without drip nose for
16 mm MWS

aluminium profile 60 mm
width for all MWS

## Gaskets

TPE gasket grey for
60 mm aluminium profile

TPE purlin gasket grey

TPE gasket grey
for two parts
aluminium profile

EPDM gasket for wall
connection profile

self adhesive support strip
60 mm width, TPE grey

Installation advice, application requirements and further technical information can be found
in our technical manuals and installation manuals.

# Polycarbonat installations systems for MWS

## H connection profiles

H Profiles are available for following MWS thicknesses: 4 mm, 6 mm*, 8 mm, 10 mm* and 16 mm



PC H profile for 4 mm MWS    PC H profile for 8 mm MWS    PC H profile for 16 mm MWS

## U profiles

U profiles are available for following MWS thicknesses: 4 mm, 6 mm*, 8 mm, 10 mm* and 16 mm
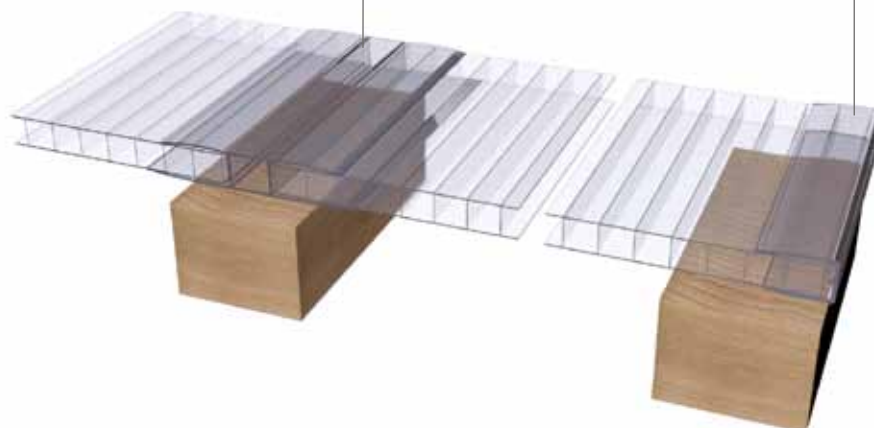


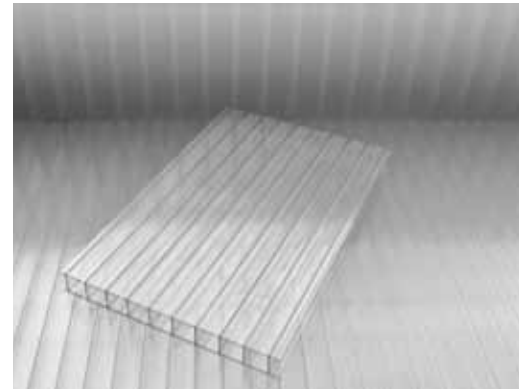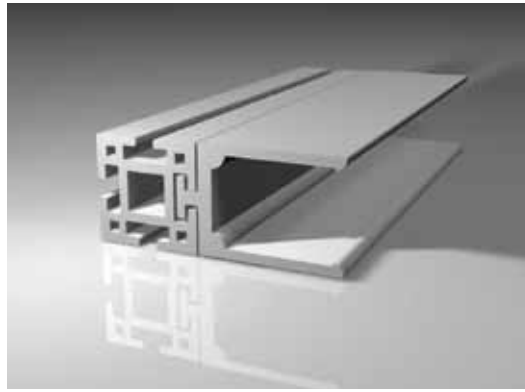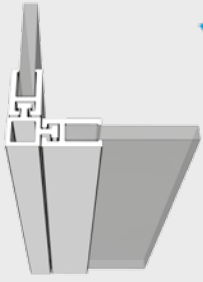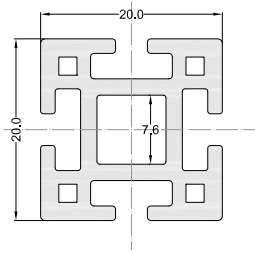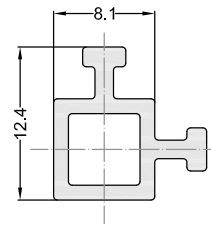U profile for 4 mm MWS    U profile for 8 mm MWS    U profile for 16 mm MWS

H profile ———————————————— U profile ————————



* without figure

Installation advice, application requirements and further technical information can be found in our technical manuals and installation manuals.

## Advantages

- high flexibility due to individually combinable profiles
- sellable as single items or construction kit
- thermally insulated
- lower cost than anodized or coated aluminum profiles
- screwless mounting
- easy installation without any special tools
- easy mounting and demounting
- a profile range user-defined extendible
- forget about tarnished profiles

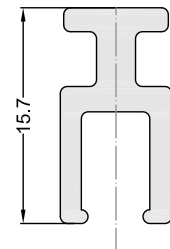## Rodeca Creativity - modular construction system
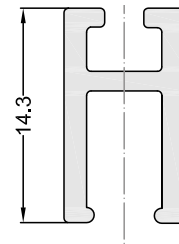
## PC profile range for 4 mm and 6 mm Multi Wall Sheets

all-round profile
connector 4 mm MWS

corner connector
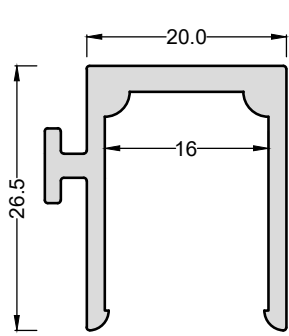4 mm MWS

base profile for
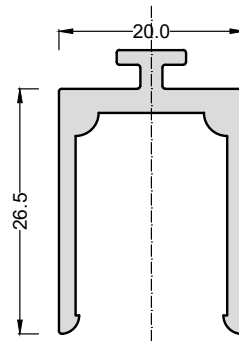4 & 6 mm MWS

base profile for
4 & 6 mm MWS
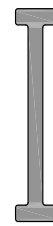
TPE hinge
profile
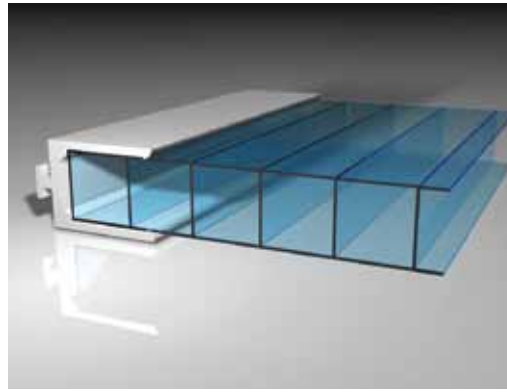
# PC profile range for 16 mm Multi Wall Sheets

## Applications

- house and garden
- home and hobby
- hobby greenhouses
- individual constructions
- interior fittings
- composter
- tomato greenhouses
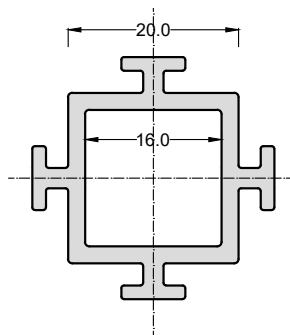- sliding doors
- partitions
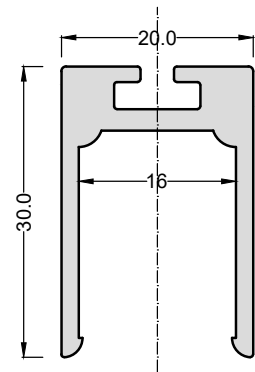- modular play pens
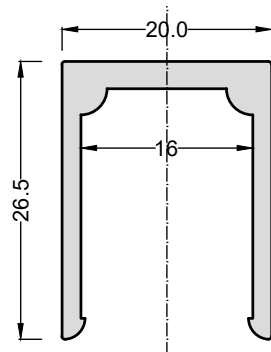


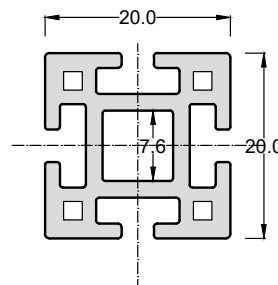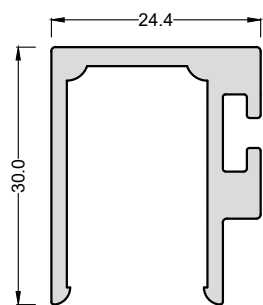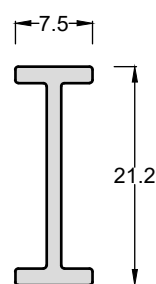corner connector



cap profile



base profile



all-round profile
connector



base profile



all-round profile
connector



corner connector



TPE hinge profile

## Our MWS range
## in 16 mm thickness
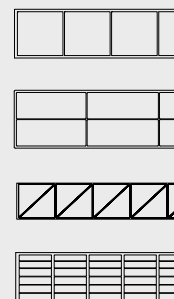


**16**

...the ideal addition!

## Germany

Rodeca GmbH

Freiherr-vom-Stein-Straße 165

D-45473 Mülheim an der Ruhr

Fon  + 49 (0) 208 76502 - 0

Fax  + 49 (0) 208 76502 -11

info@rodeca.de

www.rodeca.de

## The Netherlands

Rodeca Systems b.v.

Koperweg 11 N

2401 LH Alphen aan den Rijn

Fon  + 31 (0) 172 416 747

Fax  + 31 (0) 172 419 090

info@rodeca.nl

www.rodeca.nl

## United Kingdom

Rodeca Ltd.

Bentalls House

Bentalls

Pipps Hill Industrial Estate

Basildon

Essex SS14 3BS

Fon + 44 (0) 1268 531466

Fax + 44 (0) 1268 526351

sales@rodeca.co.uk

www.rodeca.co.uk

## Australia

(plus New Zealand, Malaysia & Singapore)

Architectural Building Elements Pty Ltd

17 Business Park Drive

Ravenhall

Victoria 3023

Australia

Fon + 61 (0) 3 9755 8136

info@rodeca.com.au

www.rodeca.com.au

## Italy

ANSA Termoplastici S.r.l./Rodeca Italy

Concessionaria per l'Italia di Rodeca GmbH

Via Nazionale, 66

24060 Sovere (BG)

Fon  + 39 035 981431

Fax  + 39 035 981529

info@rodeca.it

www.rodeca.it

## South America

REPLAEX RESINAS PLÁSTICAS EXTRUDADAS LTDA

Autorizado America do Sul de Rodeca GmbH

Estrada da Ligação, 839 - Taquara - Rio de Janeiro

RJ - BRASIL cep. 22713-470

Fon : +55 (0) 21 2446-8811

Fax : +55 (0) 21 2446-7181

vendas@replaex.com.br

www.replaex.com.br

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## Rodeca product groups overview

### Translucent Building Elements
Lichtbauelemente

### Windows
Fenster

### Multi Function Panels
Multi-Funktions Paneele

### U-Panels
U-Paneele

### RT-Thermolight
RT-Thermolight

### Multi Wall Sheets
Hohlkammerscheiben

Errors and changes excepted.
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