Product Guide

Discover the Rodeca products at a glance





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.



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Translucent building elements (TBE)	

Translucent building elements

- good thermal insulation
- translucent
- high load resistance
- temperature resistant from -40° to +115°.
- light and easy to assemble
- available in numerous colours and variants

Rodeca translucent building elements made of polycarbonate are extremely impact-resistant and weather-resistant. The multi-layer structure and thicknesses of 30 mm to 60 mm ensure best insulation values. Thanks to the tongue and groove connection that has been proven over decades, translucent building elements are easy to assemble. The use of coloured elements can make your building project even more unique.





Translucent building elements at a glance

Translucent building element





PC 2333-30-6

Width Thickness

Up value Inst. vertical/horizontal

333 mm -2/+6 mm 30 mm +/-0.5 mm 1,3 W/m²K / 1,4 W/m²K

Weight

Fire classification

approx. 3,0 kg/m² B-s1, d0 acc. to EN13501

Translucent building element







Width

Thickness

Up value Inst. vertical/horizontal

 $500 \text{ mm} - 2/+6 \text{ mm} \quad 40 \text{ mm} +/-0.5 \text{ mm} \quad 1.4 \text{ W/m}^2 \text{K} / 1.5 \text{ W/m}^2 \text{K}$

Weight

Fire classification

approx. 4,0 kg/m² B-s1, d0 acc. to EN13501

Translucent building element





PC 2540-4 MC

Width

Thickness

Up value Inst. vertical/horizontal

 $500 \text{ mm} - 2/+6 \text{ mm} \quad 40 \text{ mm} + /-0.5 \text{ mm} \quad 1.5 \text{ W/m}^2\text{K} / 1.6 \text{ W/m}^2\text{K}$

Weight

Fire classification

approx. 4,0 kg/m² B-s1, d0 acc. to EN13501

Translucent building element





PC 2540-6

Width Thickness

Up value Inst. vertical/horizontal

 $500 \text{ mm} - 2/+6 \text{ mm} \quad 40 \text{ mm} + /-0.5 \text{ mm} \quad 1.2 \text{ W/m}^2\text{K} / 1.2 \text{ W/m}^2\text{K}$

Weight

Fire classification

approx. 4,2 kg/m² B-s1, d0 acc. to EN13501

Translucent building element





PC 2540-7

Width

Thickness

Up value Inst. vertical/horizontal $500 \text{ mm} - 2/+6 \text{ mm} \quad 40 \text{ mm} + /-0.5 \text{ mm} \quad 1.1 \text{ W/m}^2\text{K} / 1.2 \text{ W/m}^2\text{K}$

Weight

Fire classification

B-s1, d0 acc. to EN13501 approx. 4,3 kg/m²

Translucent building elements at a glance

Translucent building element





PC 2540-10

Width	Thickness

Up value Inst. vertical/horizontal $500 \text{ mm} - 2/+6 \text{ mm} \quad 40 \text{ mm} + /-0.5 \text{ mm} \quad 1.0 \text{ W/m}^2\text{K} / 1.0 \text{ W/m}^2\text{K}$

Weight

Fire classification

approx. 4,2 kg/m² B-s1, d0 acc. to EN13501

Translucent building element







PC 2540-10DX

Width $495 \text{ mm} - 2/+6 \text{ mm} \quad 40 \text{ mm} + /-0.5 \text{ mm} \quad 1,1 \text{ W/m}^2\text{K} / 1,1 \text{ W/m}^2\text{K}$

Thickness

Up value Inst. vertical/horizontal

Weight

Fire classification

approx. 4,6 kg/m² B-s1, d0 acc. to EN13501

Translucent building element









Width

Thickness

Up value Inst. vertical/horizontal

Weight

Fire classification

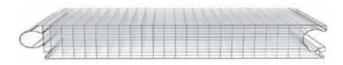
495 mm - 2/+6 mm 50 mm + /-0.5 mm $0.90 \text{ W/m}^2 \text{K} / 0.92 \text{ W/m}^2 \text{K}$

approx. 5,0 kg/m² B-s1, d0 acc. to EN13501

Translucent building element PC 2560-12







Width

Thickness

Up value Inst. vertical/horizontal

Weight

Fire classification

 $500 \text{ mm} - 2/+6 \text{ mm} \quad 60 \text{ mm} + /-0.5 \text{ mm} \quad 0.75 \text{ W/m}^2 \text{K} / 0.77 \text{ W/m}^2 \text{K}$

approx. 5,8 kg/m² B-s1, d0 acc. to EN13501



Aluminum frame profiles



Aluminum frame profiles for framing Rodeca polycarbonate elements of all thicknesses are available in a wide variety of designs. From non-thermally broken profiles to thermally broken profiles. Available in mill finish, anodized or powder-coated in colours according to customer requirements.

Our range is extensive and covers almost all applications, please contact us!

Prefabricated components



Frame profiles made of aluminum are usually delivered to the construction site as 6 m profiles and are adapted to the structural conditions there. We would be happy to support you with this work by prefabricating components in our factory according to your needs.

Assembly situations

The examples shown below show the use of the Rodeca frame profiles for installation in reveal, as rainscreen construction or as an inclined rainscreen construction.





Windows

Rodeca aluminum windows have been specially developed for use in Rodeca facades due to the all-round mounting for translucent building elements.

Rodeca windows can be glazed with translucent building elements as well as with insulating glass. Our three window series range from non-thermally insulated windows for simple industrial glazing to thermally insulated windows for residential construction.



Windows in all common opening variants, combination elements for the facade, or roof windows – we have the optimal window solution for your facade. All our windows are made to measure in our factory in Kamp-Lintfort. This means you get all the products you need for your project reliably from a single source!



Window series

Series 80

The 80 series consists of non-thermally broken aluminum frame profiles and is particularly suitable for industrial glazing. Our windows offer the possibility of various types of glazing (optionally and depending on the window design possible with Rodeca LBE 40 mm, insulating glass or multi-wall sheets in 20 mm thickness).



Opening variants



Pivot



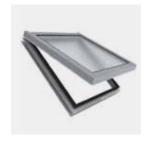
Special pivot bottom hung



Special pivot top hung



Top hung



Skylight

Series 86

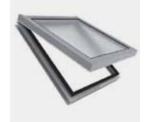
The 86 series of windows is specially designed for the Rodeca system. The thermally insulated windows can either be set into the aluminum frame system, or can be placed in the middle of the panel facade. The 86 series of windows can be glazed with 40 mm, 50 mm or 60 mm thick panels.

Opening variants









Pivot

Special pivot bottom

Special pivot top

Skylight

Series 85

The 85 series is made of thermally insulated aluminum frame profiles and meets the high demands of residential construction.
Glazing with Rodeca light elements as well as insulating glass is possible.



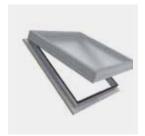
Opening variants











Side hung window

Tilt and turn

Top hung

Pivot

Skylight



Customized

Multi-wall sheets

- translucent and heat insulating
- temperature resistance from -40 to +115°C
- impact strength almost constant over this temperature range
- 10 years warranty
- UV protection

Rodeca multi-wall sheets are extremely versatile and available in different thicknesses and widths. On customer request, they can be produced in flexible widths with closed side edges. Areas of application for multi-wall sheets are above all terrace roofs, conservatories, pergolas and greenhouses – almost any project can be realized.



2 layer Multi-wall sheets



Product	Thickness	Width variable	Width standard	Up-Value Inst. vertical/horizontal
PC 4-2	4 mm	500 mm - 1050 mm*	2100 mm	3,9 / 4,4 W/m²K
PC 4,5-2	4 mm	500 mm - 1050 mm*	-	3,8 / 4,3 W/m ² K
PC 6-2	6 mm	550 mm - 1250 mm*	2100 mm	3,5 / 3,9 W/m ² K
PC 6(10)-2	6 mm	550 mm - 1250 mm*	1202 mm	3,5 / 3,9 W/m ² K
PC 8-2	8 mm	550 mm - 1250 mm*	2100 mm	3,2 / 3,5 W/m ² K
PC 10-2	10 mm	550 mm - 1250 mm*	2100 mm	3,0 / 3,2 W/m ² K
PC 16-2	16 mm	630 mm - 1250 mm*	980 mm, 1200 mm	2,6 / 2,9 W/m ² K
PC 20-2	20 mm	630 mm - 1250 mm*	-	2,5 / 2,8 W/m ² K



4 layer Multi-wall sheets

Product	Thickness	Width variable	Width standard	Up-Value Inst. vertical/horizontal
PC 10-4	10 mm	-	2100 mm	2,5 / 2,7 W/m²K

5 layer Multi-wall sheets



Product	Thickness	Width variable	Width standard	Up-Value Inst. vertical/horizontal
PC 10-5	10 mm	550 mm - 1030 mm*	-	2,5 / 2,7 W/m ² K
PC 12-5	12 mm	550 mm - 1030 mm*	-	2,3 / 2,5 W/m ² K
PC 16-5	16 mm	630 mm - 1250 mm*	-	2,0 / 2,1 W/m²K



7 layer Multi-wall sheets



Product	Thickness	Width variable	Width standard	Up-Value Inst. vertical/horizontal
PC 16-7	16 mm	700 mm - 1230 mm*	980 mm, 1200 mm, 2100 mm	1,8 / 1,9 W/m²K
PC 20-7	20 mm	700 mm - 1230 mm*	2100 mm	1,5 / 1,6 W/m²K
PC 25-7	25 mm	700 mm - 1230 mm*	980 mm, 1200 mm	1,4 / 1,5 W/m ² K



10 layer Multi-wall sheets



Product	<u>Thickness</u>	Width variable	Width standard	Up-Value Inst. vertical/horizontal
PC 32-10	32 mm	700 mm - 1230 mm*	1230 mm	1,2 / 1,2 W/m²K
PC 40-10	40 mm	700 mm - 1230 mm*	980 mm	1,0 / 1,1 W/m²K



Customized

Lamellae

- good thermal insulation
- producible in numerous variants
- high load resistance
- diverse area of application
- UV protection

Lamellae made of polycarbonate are versatile and can be produced in flexible widths and colours on customer request.

Areas of application for PC lamellae are primarily slatted ventilators and added heat insulation – however, it also applies here that almost any project can be realized from a architectural aesthetical point of view.



2 layer Lamellae



Product	Thickness	Width variable	Up-Value Inst. vertical/horizontal
PC Lamella 6-2	6 mm	120 mm - 200 mm*	3,5 / 3,9 W/m²K
PC Lamella 8-2	8 mm	120 mm - 200 mm*	3,2 / 3,5 W/m²K
PC Lamella 9-2	9 mm	120 mm - 200 mm*	3,2 / 3,5 W/m ² K
PC Lamella 10-2	10 mm	120 mm - 200 mm*	3,0 / 3,2 W/m²K



4 layer Lamellae



Product	Thickness	Width variable	Up-Value Inst. vertical/horizontal
PC Lamella 16-4	16 mm	193 mm - 300 mm*	2,2 / 2,3 W/m²K
PC Lamella 20-4	20 mm	193 mm - 300 mm*	1,9 / 2,0 W/m²K

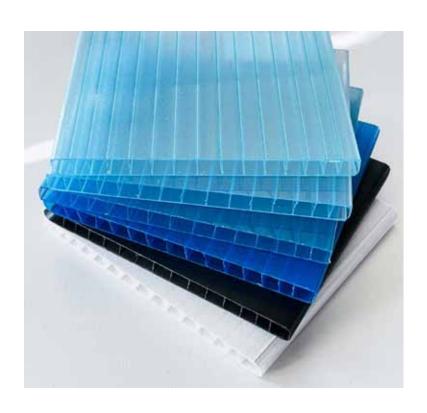
7 layer Lamellae



Product	Thickness	Width variable	Up-Value Inst. vertical/horizontal
PC Lamella 16-7	16 mm	190 mm - 292 mm*	1,8 / 1,9 W/m²K
PC Lamella 20-7	20 mm	190 mm - 292 mm*	1,6 / 1,7 W/m²K
PC Lamella 25-7	25 mm	190 mm - 292 mm*	1,4 / 1,5 W/m²K
PC Lamella 30-7	30 mm	190 mm - 292 mm*	1,3 / 1,3 W/m²K

* Minimum quantities required







Multi-function panels MFP

Due to the couplings on the long sides, the panels are connected outside the water-bearing layer, so this system is also suitable for low roof pitches from 5°.

Our multi-functional panels can be produced from a thickness of 3 mm up to a maximum thickness of 25 mm. The width varies between 250 mm and 600 mm depending on the product

This product can be used for roof applications, but also in facade areas.



All MFP panels at a glance









PC 2625-5

PC 2610-4

PC 2250-10-4

PC 2253-2

MFP





Thickness

Up-Value

Weight

Fire classification

 $600 \text{ mm} - 2/+6 \text{ mm} \quad 25 \text{ mm} + /-0.5 \text{ mm} \quad \text{approx.} 1.7 \text{ W/m}^2 \text{K}$

approx. 3,6 kg/m² B-s1, d0 acc. to EN13501

MFP PC 2610-4





W	-	_	

Width

Thickness

Up-Value

Weight

Fire classification

600 mm -2/+6 mm 10 mm +/-0,5 mm

approx. 2,6 kg/m² B-s1, d0 acc. to EN13501

PC 2250-10-4





Width

Thickness

Up-Value

Weight

Fire classification

250 mm -2/+6 mm 10 mm +/-0,5 mm

approx. 2,2 W/m²K

 $\frac{}{\text{approx. } 2,7 \text{ kg/m}^2} = \frac{}{\text{B-s1, d0 acc. to EN13501}}$

MFP

PC 2253-2





Width

Thickness

250 mm -2/+6 mm 3 mm +/-0,5 mm

Up-Value

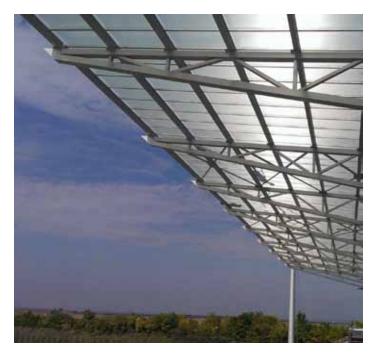
approx. 4,5 W/m²K

Weight

Fire classification

approx. 1,7 kg/m² B-s1, d0 acc. to EN13501







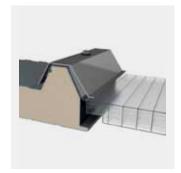
Thermolight

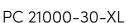
Thermolight polycarbonate panels can be integrated quickly, easily and economically into roof constructions made of trapezoidal sheets or profiled sandwich panels. Due to flexible sizes and possible uses, these systems allow a large variety of design.

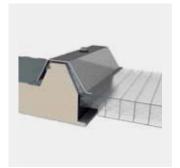
The transparent glazing systems are suitable for straight and partially curved applications. Despite their light appearance, Rodeca Thermolight panels are extremely weather-resistant – even against hail.



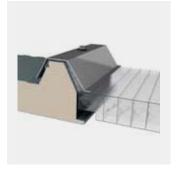
All Thermolight panels at a glance



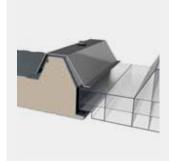




PLP 1000-30



PLP 1000-40



Fire classification

PC 2685-3

 $_{approx.}$ 3,5 kg/m² B-s1, d0 acc. to EN13501

Thermolight PC 21000-30-XL



Thickness

30 mm



Weight

Thermolic	aht

PLP 1000-30

Width

1005 mm



Up-Value

approx. 1,4 W/m²K



Width	Thickness	Up-Value	Weight	Fire classification
1000 mm	30 mm	approx. 1,3 W/m²K	approx. 3,5 kg/m²	B-s1, d0 acc. to EN13501

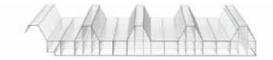
Thermolight **PLP 1000-40**



Width	Thickness	Up-Value	Weight	Fire classification
1000 mm	40 mm	approx. 1,1 W/m²K	approx. 3,9 kg/m²	B-s1, d0 acc. to EN13501

Thermolight PC 2685-3





Width	Thickness	Up-Value	Weight	Fire classification
600 mm	40/85 mm	approx. 1,6 W/m²K	approx. 5,2 kg/m²	B-s1, d0 acc. to EN13501







U-Panels

The panel side couplings are connected by a polycarbonate clip which is arranged outside the water-bearing layer. Therefore, this system is also suitable for low roof pitches from 5°. U-panels can be used as roof applications, but also in facade areas.



All U-panels at a glance















PC 2600-40-7-U

PC 2630-25-6-U

PC 2630-25-6-U HD PC 2630-20-6-U

PC 2630-16-6-U

PC 2630-16-6-U HD

PC 2600-10-4-U

U-Panel







PC	260	0-40	0-7	-U

Width	_ Thickness
605 mm	40 mm

Up-Value approx. 1,2 W/m²K

Weight

Fire classification

approx. 4,6 kg/m² B-s1, d0 acc. to EN13501

U-Panel PC 2630-25-6-U







Width 630 mm

Thickness

25 mm

approx. 1,6 W/m²K

Up-Value

Weight

Fire classification

 $_{\text{approx.}}$ 3,6 kg/m 2 B-s1, d0 acc. to EN13501

U-Panel PC 2630-25-6-U HD







Width	Thickness	Up-Value	Weight	Fire classification
630 mm	25 mm	approx. 1,6 W/m²K	approx. 5,0 kg/m²	B-s1, d0 acc. to EN13501

U-Panel

PC 2630-20-6-U





Width	Thickness	Up-Value	Weight	Fire classification
630 mm	20 mm	approx. 1,7 W/m²K	approx. 3,4 kg/m²	B-s1, d0 acc. to EN13501

U-Panel **PC 2630-16-6-U**

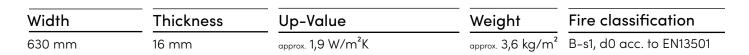




Width	Thickness	Up-Value	Weight	Fire classification
630 mm	16 mm	approx. 1,9 W/m²K	approx. 3,2 kg/m²	B-s1, d0 acc. to EN13501

U-Panel **PC 2630-16-6-U HD**





U-Panel **PC 2600-10-4-U**



Width	Thickness	Up-Value	Weight	Fire classification
600 mm	10 mm	approx. 2,6 W/m²K	approx. 2,3 kg/m²	B-s1, d0 acc. to EN13501



Corrugated and trapezoidal sheets

Single-leaf corrugated and trapezoidal sheets are extremely versatile. Thanks to our extensive production options, numerous variants are also possible with regard to colouring, surface effects and widths. We produce corrugated and trapezoidal sheets not only from polycarbonate (PC) but also from post-industrial (PIP) and

post-consumer raw materials (PCR), which allows us to make a significant contribution to active environmental protection. We would be happy to try to implement your wishes, please contact us!

All corrugated and trapezoidal sheets at a glance



PC corrugated sheet **76/18 corrugated**



Width standard

1116 mm

Width variable

900 / 1040 / 1265 mm

Thickness standard

0,8 mm

Thickness variable

0,70 mm - 1,40 mm

Fire classification

B-s1, d0 acc. to EN13501



PC corrugated sheet **76/18 trapezoidal**



1116 mm

Width variable

900 / 1040 / 1265 mm

Thickness standard

0,8 mm

Thickness variable

0,70 mm - 1,40 mm

Fire classification

B-s1, d0 acc. to EN13501



Example clear



Example opal



Example Color

Colours:

Standard: clear and opal | Colours similar RAL (COLOR) as well as special finishes as frosted on request

Savenergy -

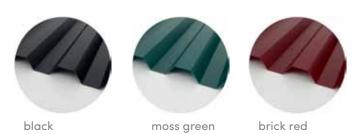
Corrugated and trapezoidal sheets

Life cycles of building materials and sustainability are becoming increasingly important for our environment. Rodeca corrugated and trapezoidal sheets can not only be recycled, we can also produce them from recycled polycarbonate.

Materials that have already been in use for many years are processed back into high-quality products (PCR). Thanks to sophisticated technologies, residues that occur during the production of polycarbonate elements are fed back into production and thus protect the environment (PIP). Economical and sustainable zero waste production is our focus!



PC corrugated sheets 76/18 "PCR"





Colour tones may vary slightly between different batches of material due to the process

Width standardWidth variableThickness standardThickness variableFire classification1116 mm900 / 1040 / 1265 mm0,9 mm0,90 mm - 1,40 mmE

PC corrugated sheets 76/18 "PIP"





Colour tones may vary slightly between different batches of material due to the process

Width standard Width variable Thickness standard 7,900 / 1040 / 1265 mm Thickness standard 7,900 mm - 1,40 mm E

Polycarbonate and plastic profiles

Rodeca not only produces multi-wall sheets, panels or solid profiled polycarbonate sheets, but also numerous technical profiles. From PC-H and U profiles for edging multi-wall sheets in the most common thicknesses to innovative connection profiles for DIY use.

Examples

PC U-Profile



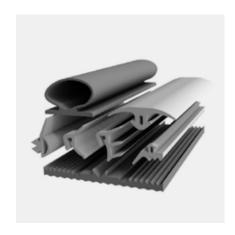
PC H-Profile



Thicknesses	
4 mm	
6 mm	
8 mm	
10 mm	
16 mm	
20 mm	

25 mm

Sealing gaskets



We also produce sealing gaskets from thermoplastic materials. We produce sealing gaskets not only for our systems, but also to a customer's special requirements.

Innovative special profiles | PC-Corner



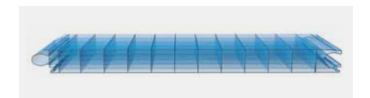
The transparent corner profile can be used if there is a desire to create a façade surface that is as homogeneous as possible across the corners of the building. It creates maximum transparency and makes building corners appear practically profileless. The PC corner profile is available as an alternative to our aluminum corner profiles in thicknesses of 40/50/60 mm to match our translucent building elements.

Colours and finishes



Standard

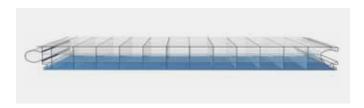
All Rodeca panels can be found in clear and opal version as a standard version in our delivery program.



Color



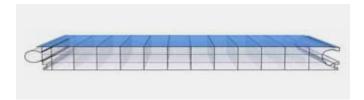
Colouring the entire body in one colour.



BiColor



Two-tone design of the translucent building element, the inside of the panel is coloured differently than the rest of the panel.



DecoColor



Two-tone design of the translucent building element, the outside of the panel is coloured differently than the rest of the panel.

Heatbloc



The outer shell of the panel has a special coating that prevents the interior from heating up.

Frosted

The outer shell of the panel is satin finished for a frosted light-diffusing effect.



Interactivity

Individual colour development and surfaces according to customer requirements.



Please contact us for information on the minimum quantities for individual color versions.



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ltal

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