

Translucent building systems



Product range

Translucent Building Elements made of polycarbonate

Translucent building systems

Product range

Translucent building elements
made of polycarbonate



Installation positions

Depending on structural conditions, translucent building elements can be installed with or without aluminium fasteners in reveal, as rainscreen installation or as pitched installation with a minimum pitch of 15°.



installation in reveal



rainscreen installation



pitched rainscreen installation

Product range

RODECA translucent building elements, made of high-quality polycarbonate are available in different thicknesses. Our translucent building elements are produced with a coextruded UV protective layer on the outside. We grant a 10-year warranty against aging and yellowing in accordance with our written guarantee.

Thickness [mm]	Translucent element	U _p -value [W/m ² K] vertical / horizontal	Weight [kg/m ²]	Building width [mm]	Fire classification according to EN 13501
30 40	PC 2333-30-6	1.3 W/m ² K	approx. 3.0 kg/m ²	333 mm	B-s1, d0
	PC 2540-4	1.4 / 1.5 W/m ² K	approx. 4.0 kg/m ²	500 mm	B-s1, d0
	PC 2540-4 MC	1.5 / 1.6 W/m ² K	approx. 4.0 kg/m ²	500 mm	B-s1, d0
	PC 2540-6	1.2 / 1.2 W/m ² K	approx. 4.2 kg/m ²	500 mm	B-s1, d0
	PC 2540-7	1.1 / 1.2 W/m ² K	approx. 4.3 kg/m ²	500 mm	B-s1, d0
	PC 2540-10	1.0 / 1.0 W/m ² K	approx. 4.2 kg/m ²	500 mm	B-s1, d0
	PC 2540-10DX	1.1 / 1.1 W/m ² K	approx. 4.6 kg/m ²	495 mm	B-s1, d0
	PC 2540-10DX HI	1.1 / 1.1 W/m ² K	approx. 5.8 kg/m ²	495 mm	B-s1, d0
50 60	PC 2550-10	0.90 / 0.92 W/m ² K	approx. 5.0 kg/m ²	495 mm	B-s1, d0
	PC 2560-12	0.75 / 0.77 W/m ² K	approx. 5.8 kg/m ²	500 mm	B-s1, d0

Production tolerances s. general information

Versions

Color: the entire panel is coloured in one colour



BiColor: two-coloured version of the panel, the inside layer has another colour than the rest of the panel



DecoColor: two-coloured version of the panel, the outside layer has another colour than the rest of the panel



DecoStripe: basic body in crystal, stripes are offset on both sides in the colour of choice



DuoColor: two-coloured version of the panel, approx. one half of panel is coloured differently than the other



Advantages

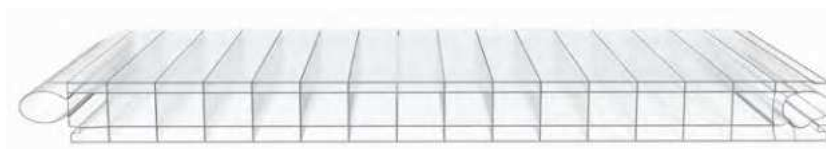
- polycarbonate is a crystal clear, high impact thermoplastic
- temperature resistance from von -40 to +115°C, temporarily up to 130°C
- impact resistance virtually unchanged within these temperatures
- good long term performance through UV protection
- 10 years warranty against yellowing - ageing - hail stone
- translucent with excellent thermal properties

30

**PC 2333-30-6**

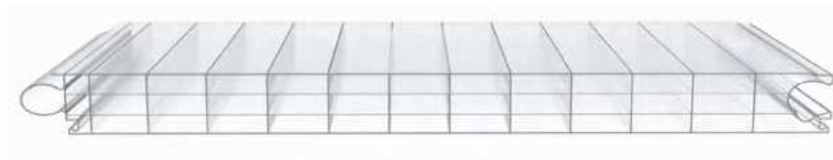
Building width	333 mm
Thickness	30 mm
Weight	approx. 3.0 kg/m ²
U _p -value	1.3 W/m ² K vertical installation
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 60% opal approx. 31%
Versions	crystal, opal, Color (minimum quantities see product data sheet)

40

**PC 2540-4 MC**

Building width	500 mm
Thickness	40 mm
Weight	approx. 4.0 kg/m ²
U _p -value	1.5 W/m ² K vertical 1.6 W/m ² K horizontal
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 66% opal approx. 29%
Versions	crystal, opal, Color (minimum quantities see product data sheet)

40

**PC 2540-4**

Building width	500 mm
Thickness	40 mm
Weight	approx. 4.0 kg/m ²
U _p -value	1.4 W/m ² K vertical 1.5 W/m ² K horizontal
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 63% opal approx. 28%
Versions	crystal, opal, Color, BiColor (minimum quantities see product data sheet)

40



PC 2540-6

Building width	500 mm
Thickness	40 mm
Weight	approx. 4.2 kg/m ²
U _p -value	1.2 W/m ² K vertical 1.2 W/m ² K horizontal
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 60% opal approx. 28%
Versions	crystal, opal, Color, DecoStripe (minimum quantities see product data sheet)

40



PC 2540-7

Building width	500 mm
Thickness	40 mm
Weight	approx. 4.3 kg/m ²
U _p -value	1.1 W/m ² K vertical 1.2 W/m ² K horizontal
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 55% opal approx. 25%
Versions	crystal, opal, Color, DecoColor (minimum quantities see product data sheet)

40



PC 2540-10

Building width	500 mm
Thickness	40 mm
Weight	approx. 4.2 kg/m ²
U _p -value	1.0 W/m ² K vertical 1.0 W/m ² K horizontal
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 84% opal approx. 25%
Versions	crystal, opal, Color, DuoColor (minimum quantities see product data sheet)

40



PC 2540-10DX

Building width	495 mm
Thickness	40 mm
Weight	approx. 4.6 kg/m ²
U _p -value	1.1 W/m ² K vertical 1.1 W/m ² K horizontal
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 46% opal approx. 18%
Versions	crystal, opal, Color, DuoColor (minimum quantities see product data sheet)

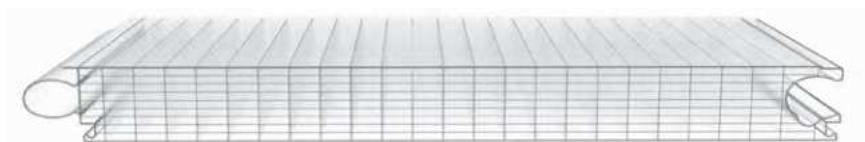
40



PC 2540-10DX HI

Building width	495 mm
Thickness	40 mm
Weight	approx. 5.8 kg/m ²
U _p -value	1.1 W/m ² K vertical 1.1 W/m ² K horizontal
Fire classification	B-s1, d0 according to EN 13501
Versions	crystal, opal, Color (minimum quantities see product data sheet)

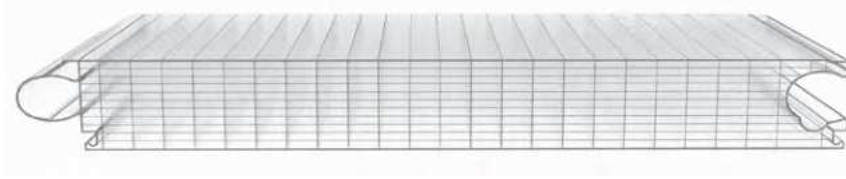
50



PC 2550-10

Building width	495 mm
Thickness	50 mm
Weight	approx. 5.0 kg/m ²
U _p -value	0.90 W/m ² K vertical 0.92 W/m ² K horizontal
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 48% opal approx. 21% petrol approx. 38%
Versions	crystal, opal, Color, DuoColor (minimum quantities see product data sheet)

60



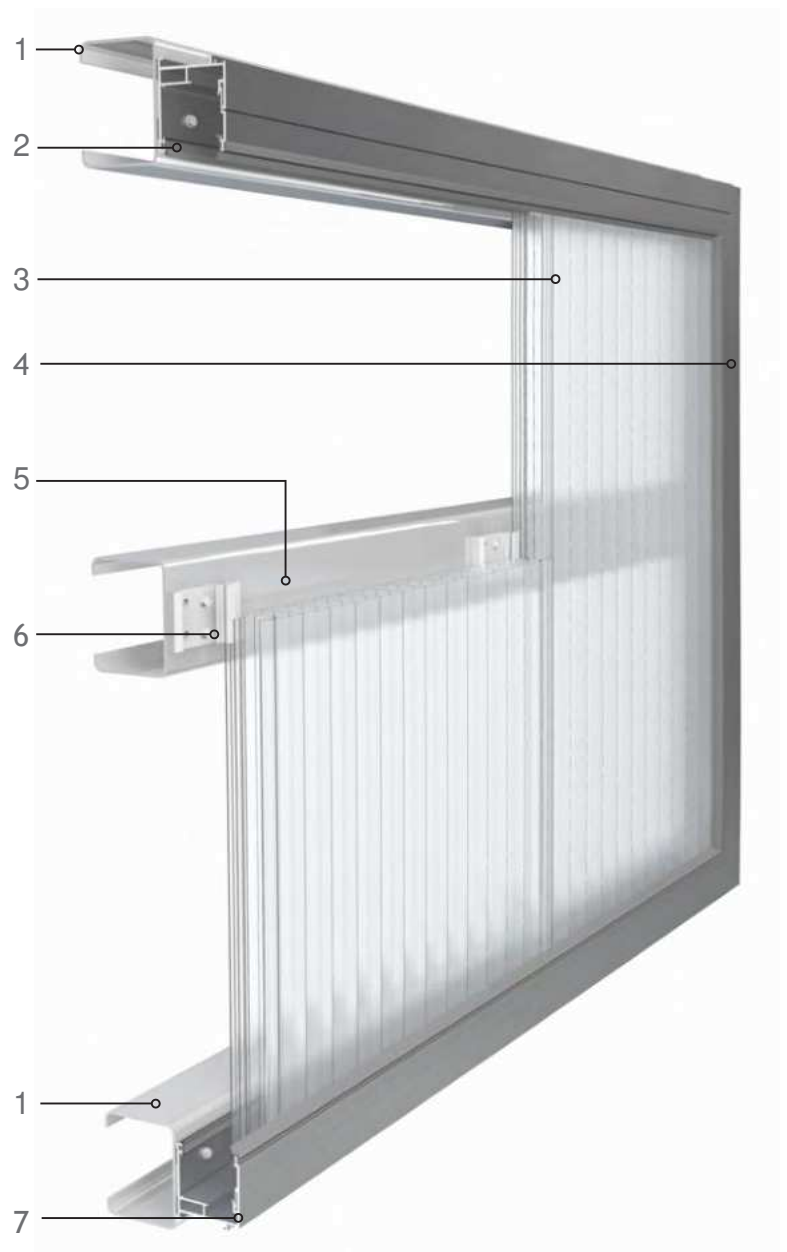
PC 2560-12

Building width	500 mm
Thickness	60 mm
Weight	approx. 5.8 kg/m ²
U _p -value	0.75 W/m ² K vertical 0.77 W/m ² K horizontal
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 42% opal approx. 18%
Versions	crystal, opal, Color, DuoColor (minimum quantities see product data sheet)

System

Overview

- 1 substructure on site
- 2 top frame profile
- 3 translucent building element
- 4 lateral frame profile
- 5 substructure on site for continuous span systems
- 6 fastener for continuous span systems
- 7 base profile with drainage

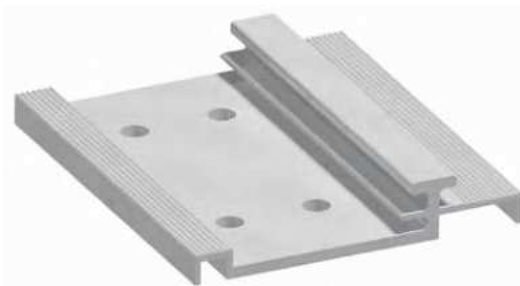


Accessories

Aluminium frame system

Rodeca aluminium frame system

Rodeca frame systems are made of extruded aluminium profiles consisting of aluminium EN AW-6060, status T 66 according to DIN EN 755-2. The ribs are made of fiber glass reinforced polyamide PA66 with fiber glass part of 25 %. The seals are made of TPE/TPV. Installation manuals can be downloaded at www.rodeca.de.



Aluminium fastener

Versions	Height	Panel system
mill finish / anodised E6/C0 / powder coated according to RAL		
49404050	50 mm	2540-4 2540-4 MC 2540-6 2540-7 2540-10
494040100	100 mm	2540-4 2540-4 MC 2540-6 2540-7 2540-10
4940x60	60 mm	2540-10DX 2540-10DX HI
4940x120	120 mm	2540-10DX 2540-10DX HI
49405060	120 mm	2550-10
494050120	60 mm	2550-10
49406060	60 mm	2560-12
494060120	120 mm	2560-12



Aluminium frame profiles (delivery length 6,0 m)

Versions	Panel [mm]	Version	Height of profile
mill finish / anodised E6/C0 / powder coated according to RAL			
454001/02 455001/02 456001/02	40 50 60	thermal break	100 mm
454011/12 455011/12 456011/12	40 50 60	thermal break	70 mm
414001/02 455001/02 456001/02	40 50 60	no thermal break	100 mm
454011/12 455011/12 456011/12	40 50 60	no thermal break	70 mm
423040	30	no thermal break	50 mm

Special profiles, window sills and accessories, as well as prefabricated frames see technical manuals
<https://www.rodeca.de/downloads.html>

Translucent building systems

rodeca[®]
Translucent Building Elements

Your specialist for translucent building elements



U-Panels

Translucent U-Panels made of polycarbonate
Product range

K|N|C
F A C A D E

U-Panels product range

RODECA translucent U-panels, made of high-quality polycarbonate are available in different thicknesses. Our translucent U-panels are produced with a coextruded UV protective layer on the outside. We grant a 10-year warranty against aging and yellowing in accordance with our written guarantee.

Thickness [mm]	U-Panel	U_p -value [W/m ² K]	Weight [kg/m ²]	Building width [mm]	Fire classification EN 13501
10 16	PC 2600-10-4-U	approx. 2.6 W/m ² K	approx. 2.3 kg/m ²	600 mm	B-s1, d0
	PC 2630-16-6-U	approx. 1.9 W/m ² K	approx. 3.2 kg/m ²	630 mm	B-s1, d0
20 25	PC 2630-16-6-U HD	approx. 1.9 W/m ² K	approx. 3.6 kg/m ²	630 mm	B-s1, d0
	PC 2630-20-6-U	approx. 1.7 W/m ² K	approx. 3.4 kg/m ²	630 mm	B-s1, d0
	PC 2630-25-6-U	approx. 1.6 W/m ² K	approx. 3.6 kg/m ²	630 mm	B-s1, d0
40	PC 2630-25-6-U HD	approx. 1.6 W/m ² K	approx. 5.0 kg/m ²	630 mm	B-s1, d0
	PC 2600-40-7	approx. 1.2 W/m ² K	approx. 4.6 kg/m ²	605 mm	B-s1, d0

Production tolerances s. general information



Advantages

- polycarbonate is a crystal clear, high impact thermoplastic
- temperature resistance from von -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 against yellowing - ageing - hail stone
- translucent with excellent thermal properties

Versions

- crystal, opal
- Color
- DuoColor

PC 2600-10-4-U



Product properties

Building width	600 mm (+6 / -2 mm)
Thickness	10 mm (+/- 0.5 mm)
Weight	approx. 2.3 kg/m ²
Structure	4 layers / 3 chambers
U _p -value	approx. 2.6 W/m ² K
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 70 %* / opal approx. 55 %*
Versions	crystal / opal / Color** on request
Minimum radius for bending	min. 3.00 m



Load resistance

Accessories

The information on load resistance relates to the failure of the panels or accessories.
The values do not contain any safety factors and do not replace any country-specific and building law certificates.



suction

span	load
1.0 m	1.0 kN/m ²

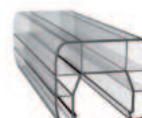


pressure

1.0 m	1.5 kN/m ²
-------	-----------------------



side profile
aluminium-U-profile
461040 + 492001



polycarbonate
connector
380061



polycarbonate
end cap
395008



front end
aluminium-U-profile
461011



fastener
59401001



gasket for side profile
902901

PC 2630-16-6-U



Product properties

Building width	630 mm (+6 / -2 mm)
Thickness	16 mm (+/- 0.5 mm)
Weight	approx. 3.2 kg/m ²
Structure	6 layers / 5 chambers
U _p -value	approx. 1.9 W/m ² K
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 61 %* / opal approx. 33 %*
Versions	crystal / opal / Color / DuoColor** on request
Minimum radius for bending	min. 3.50 m



Aluminium-U-profile

PC-end cap

PC-connector

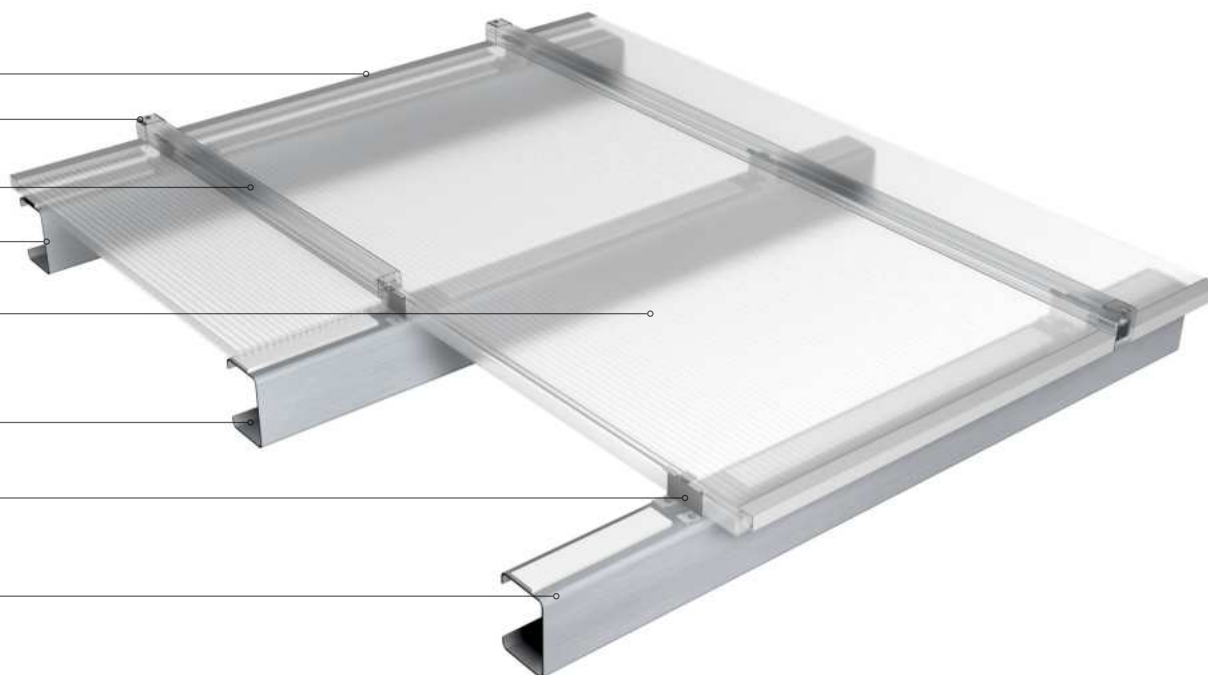
Substructure

U-panel

Substructure

Fastener

Substructure



Load resistance

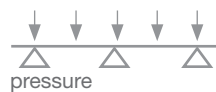
The information on load resistance relates to the failure of the panels or accessories.

The values do not contain any safety factors and do not replace any country-specific and building law certificates.



suction

span	load
1.0 m	1.7 kN/m ²
1.5 m	1.4 kN/m ²



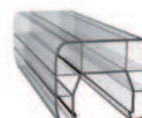
pressure

1.0 m	2.4 kN/m ²
1.5 m	1.6 kN/m ²

Accessories



side profile
aluminium-U-profile
461640 + 492001



polycarbonate
connector
380062



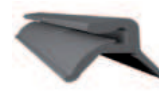
polycarbonate
end cap
395008



front end
aluminium-U-profile
461611



fastener
494016N



gasket for side profile
902901

PC 2630-16-6-U HD



Product properties

Building width	630 mm (+6 / -2 mm)
Thickness	16 mm (+/- 0.5 mm)
Weight	approx. 3.6 kg/m ²
Structure	6 layers / 5 chambers
U _p -value	approx. 1.9 W/m ² K
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 61 %* / opal approx. 33 %*
Versions	crystal / opal / Color / DuoColor** on request
Minimum radius for bending	min. 6.00 m



Aluminium-U-profile

PC-end cap

PC-connector

Substructure

U-panel

Substructure

Fastener

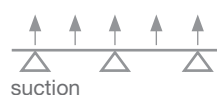
Substructure



Load resistance

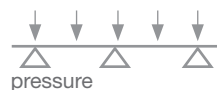
The information on load resistance relates to the failure of the panels or accessories.

The values do not contain any safety factors and do not replace any country-specific and building law certificates.



suction

span	load
1.0 m	1.7 kN/m ²
1.5 m	1.4 kN/m ²



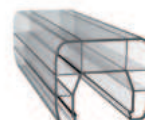
pressure

1.0 m	4.0 kN/m ²
1.5 m	3.2 kN/m ²

Accessories



side profile
aluminium-U-profile
461640 + 492001



polycarbonate
connector
380062



polycarbonate
end cap
395008



front end
aluminium-U-profile
461611

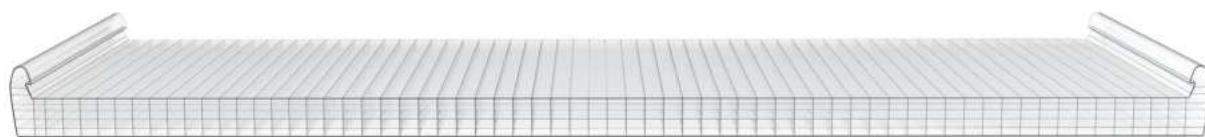


fastener
494016N



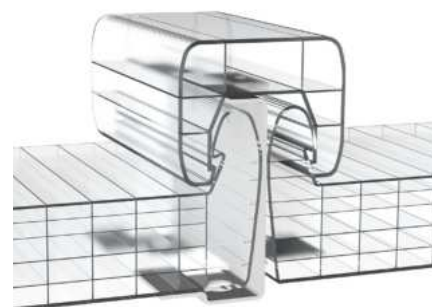
gasket for side profile
902901

PC 2630-20-6-U



Product properties

Building width	630 mm (+6 / -2 mm)
Thickness	20 mm (+/- 0.5 mm)
Weight	approx. 3.4 kg/m ²
Structure	6 layers / 5 chambers
U _p -value	approx. 1.7 W/m ² K
Fire classification	B-s1, d0 according to EN 13501
Light transmission	kristall approx. 60 %* / opal approx. 31 %*
Versions	crystal, opal, Color** / DuoColor** on request
Minimum radius for bending	min. 6.00 m

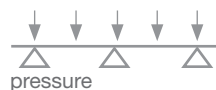


Load resistance

Accessories

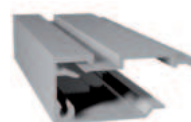
The information on load resistance relates to the failure of the panels or accessories.

The values do not contain any safety factors and do not replace any country-specific and building law certificates.

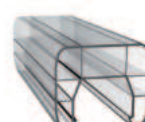


span	load
1.0 m	1.7 kN/m ²
1.5 m	1.4 kN/m ²

span	load
1.0 m	2.6 kN/m ²
1.5 m	1.8 kN/m ²



side profile
aluminium-U-profile
462040 + 492001



polycarbonate
connector
380062



polycarbonate
end cap
395008



front end
aluminium-U-profile
462011



fastener
494020N



gasket for side profile
902901

PC 2630-25-6-U



Product properties

Building width	630 mm (+6 / -2 mm)
Thickness	25 mm (+/- 0.5 mm)
Weight	approx. 3.6 kg/m ²
Structure	6 layers / 5 chambers
U _p -value	approx. 1.6 W/m ² K
Fire classification	B-s1, d0 according to EN 13501
Light transmission	crystal approx. 60 %* / opal approx. 30 %*
Versions	crystal, opal, Color** / DuoColor** on request
Minimum radius for bending	min. 8.00 m



Aluminium-U-profile

PC-end cap

PC-connector

Substructure

U-panel

Substructure

Fastener

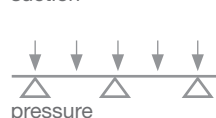
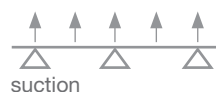
Substructure



Load resistance

The information on load resistance relates to the failure of the panels or accessories.

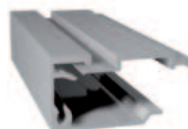
The values do not contain any safety factors and do not replace any country-specific and building law certificates.



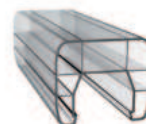
span	load
1.0 m	1.7 kN/m ²
1.5 m	1.4 kN/m ²

span	load
1.0 m	2.8 kN/m ²
1.5 m	2.0 kN/m ²

Accessories



side profile
aluminium-U-profile
462540 + 492001



polycarbonate
connector
380062



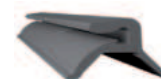
polycarbonate
end cap
395008



front end
aluminium-U-profile
462511

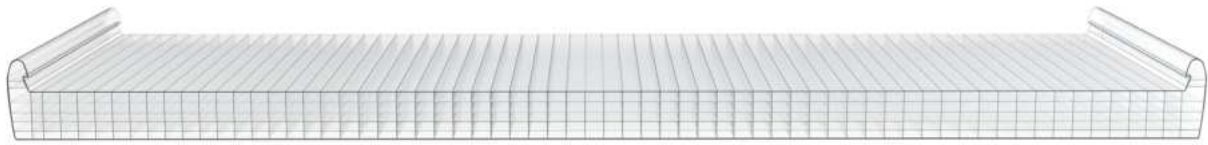


fastener
494025N



gasket for side profile
902901

PC 2630-25-6-U HD



Product properties

Building width	630 mm (+6 / -2 mm)
Thickness	25 mm (+/- 0.5 mm)
Weight	approx. 5.0 kg/m ²
Structure	6 layers / 5 chambers
U _p -value	approx. 1.6 W/m ² K
Fire classification	B-s1, d0 nach EN 13501
Light transmission	crystal approx. 60 %* / opal approx. 30 %*
Versions	crystal / opal / Color / DuoColor** on request
Minimum radius for bending	min. 10.00 m



Aluminium-U-profile

PC-end cap

PC-connector

Substructure

U-panel

Substructure

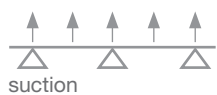
Fastener

Substructure

Load resistance

The information on load resistance relates to the failure of the panels or accessories.

The values do not contain any safety factors and do not replace any country-specific and building law certificates.



suction

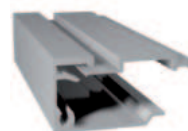
span	load
1.0 m	1.7 kN/m ²
1.5 m	1.4 kN/m ²



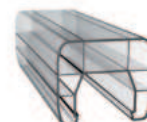
pressure

1.0 m	4.5 kN/m ²
1.5 m	3.5 kN/m ²

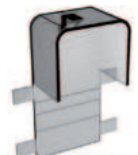
Accessories



side profile
aluminium-U-profile
462540 + 492001



polycarbonate
connector
380062



polycarbonate
end cap
395008



front end
aluminium-U-profile
462511



fastener
494025N



gasket for side profile
902901

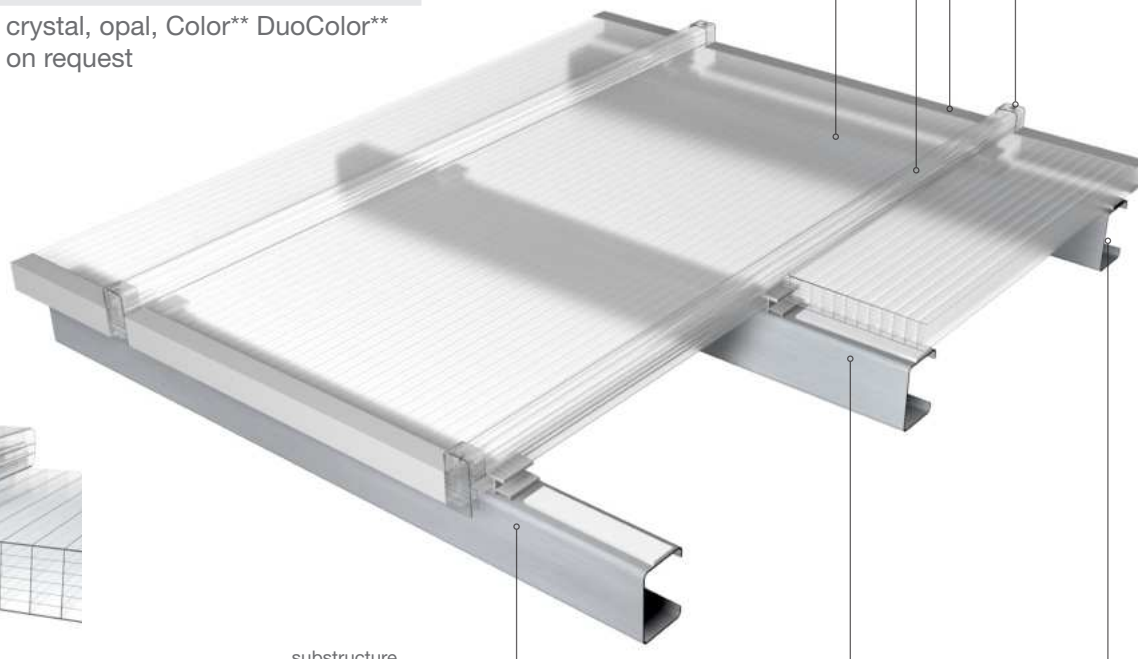
PC 2600-40-7-U



Product properties

Building width	605 mm (+6 / -2 mm)
Thickness	40 mm (+/- 0.5 mm)
Weight	approx. 4.6 kg/m ²
Structure	7 layers / 6 chambers
U _p -value	approx. 1.2 W/m ² K
Fire classification	B-s1, d0 according to EN 13501
Sound insulation	Rw 22dB
ETA / aBG	19/0452 / Z-10.19-835
Versions	crystal, opal, Color** DuoColor** on request

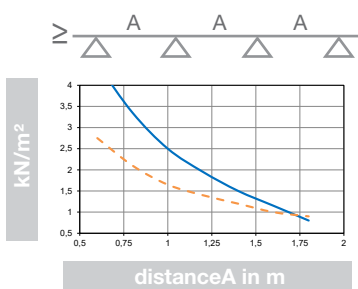
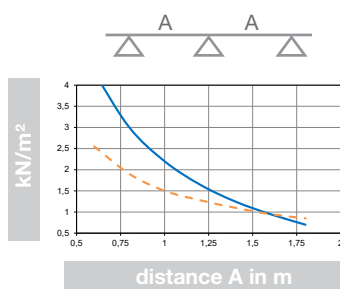
PC end cap
aluminium U-profile
PC Clip
PC U-Panel



substructure



Load resistance



--- suction load
— snow load at 5° of roof pitch

The diagrams below show recommended span widths depending on the type of installation. The values are only valid in connection with original Rodeca system accessories and may not be used as a substitute for project-related static calculations.

Accessoires

side profile
aluminium-U-profile
420040 + 492001

polycarbonate
connector
380062

polycarbonate
end cap
395008

front end
aluminium-U-profile
464011N

fastener
49404000

gasket for side profile
902901

