

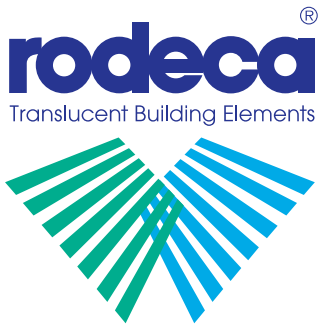


# Translucent Building Elements

Lichtbauelemente



TRANSLUCENT BUILDING ELEMENTS



# Translucent Building Elements

Multi Wall Sheets  
Hohkammerscheiben

Multi Function Panels  
Multi - Funktions-Paneele

U-Panels  
U-Paneele

## Translucent Building Elements

### 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 against yellowing - ageing - hail stone
- translucent with excellent thermal properties

### Applications

- Glazings
- Sports and industrial halls
- Roofing construction
- Shed glazings
- Window glazing
- Interior applications, e. g. partition walls or exhibition stand constructions
- Refurbishments for wall and roof
- rain screens
- Curtain facades

### Available thicknesses/ manufacturing program

Rodeca translucent building elements for use in facades, roofs and roof lights.

| 30 | Panel  | Up-value W/m <sup>2</sup> K** | Weight in kg/m <sup>2</sup>   | Building width (mm) |
|----|--------|-------------------------------|-------------------------------|---------------------|
|    | 2530-4 | 1.4 - 1.7 W/m <sup>2</sup> K  | approx. 3.4 kg/m <sup>2</sup> | 500 (+1/-1%)        |

#### PC 2530-4

Colours  
Standard: crystal / opal

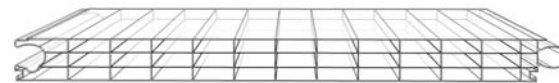


Color version: from 300 m<sup>2</sup>

| 40     | Panel                        | Up-value W/m <sup>2</sup> K** | Weight in kg/m <sup>2</sup>   | Building width (mm) |
|--------|------------------------------|-------------------------------|-------------------------------|---------------------|
|        | 2540-4                       | 1.3 - 1.5 W/m <sup>2</sup> K  | approx. 4.0 kg/m <sup>2</sup> | 500 (+1/-1%)        |
|        | 2540-4 MC                    | 1.3 - 1.6 W/m <sup>2</sup> K  | approx. 4.0 kg/m <sup>2</sup> | 500 (+1/-1%)        |
|        | 2540-6                       | 1.1 - 1.2 W/m <sup>2</sup> K  | approx. 4.2 kg/m <sup>2</sup> | 500 (+1/-1%)        |
| 2540-7 | 1.0 - 1.1 W/m <sup>2</sup> K | approx. 4.3 kg/m <sup>2</sup> | 500 (+1/-1%)                  |                     |

#### PC 2540-4

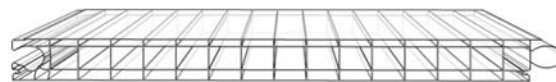
Colours:  
Standard: crystal / opal / Bicolor\*



Color version: from 300 m<sup>2</sup>  
Bicolor version: from 150 m<sup>2</sup>

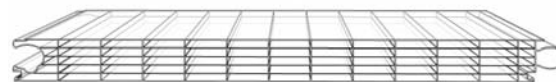
#### PC 2540-4 MC

Colours:  
Standard: crystal / opal



#### PC 2540-6

Colours:  
Standard: crystal / opal / color\*



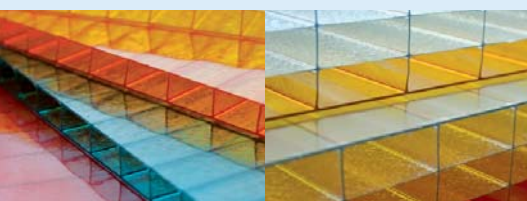
Color version: from 300 m<sup>2</sup>

#### PC 2540-7

Colours:  
Standard: crystal / opal/ Decocolor\*



Color version: from 450 m<sup>2</sup>  
Decocolor version: from 150 m<sup>2</sup>






 RT-Thermolight  
RT-Thermolight

 RT roof lights  
RT Dachlichtbänder

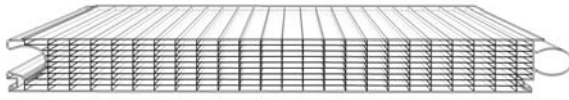
 Windows  
Fenster

 Do it yourself  
Do it yourself

| 50 | Panel   | Up-value W/m <sup>2</sup> K**  | Weight per kg/m <sup>2</sup>   | Building width (mm) |
|----|---------|--------------------------------|--------------------------------|---------------------|
|    | 2550-10 | 0.80 - 0.89 W/m <sup>2</sup> K | approx. 5.00 kg/m <sup>2</sup> | 495 (+1/-1%)        |

### PC 2550-10

Colours:  
Standard: crystal / opal / color\*

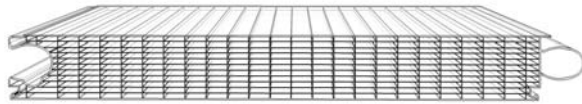


Duicolor version: from 300 m<sup>2</sup>  
Color version: from 300 m<sup>2</sup>

| 60 | Panel   | Up-value W/m <sup>2</sup> K**  | Weight per kg/m <sup>2</sup>  | Building width (mm) |
|----|---------|--------------------------------|-------------------------------|---------------------|
|    | 2560-12 | 0.71 - 0.77 W/m <sup>2</sup> K | approx. 5.8 kg/m <sup>2</sup> | 500 (+1/-1%)        |

### PC 2560-12

Colours:  
Standard: crystal / opal



Color version: from 300 m<sup>2</sup>

## Product versions

Color version: fully coloured panel



Bicolor version: colouring of the inner layer



Decolor version: colouring of the outer layer



Duicolor version: colouring of approx. one half of the panel



\* Minimum quantities, other colour combinations and our versatile product versions can be viewed in our technical manuals.

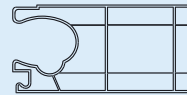
### \*\* Up-values

Depending on horizontal or vertical installation situation as interior or exterior application according to DIN EN ISO 6946:2008/ DIN EN ISO 10077-2:2008

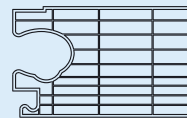
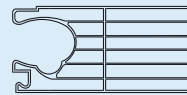
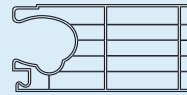
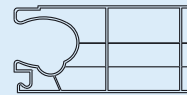
## Panels



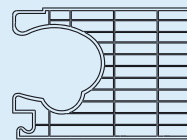
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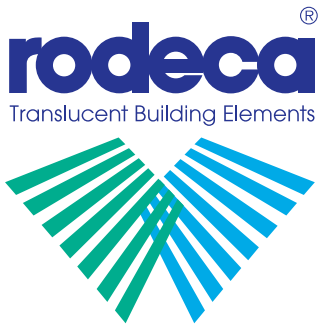
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# Translucent Building Elements

Multi Wall Sheets  
Hohkammerscheiben

Multi Function Panels  
Multi - Funktions-Paneele

U-Panels  
U-Paneele

## Translucent Building Elements

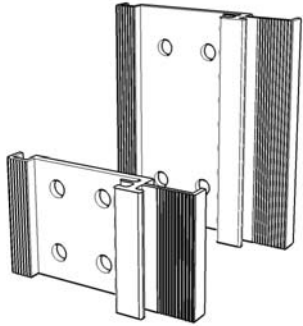
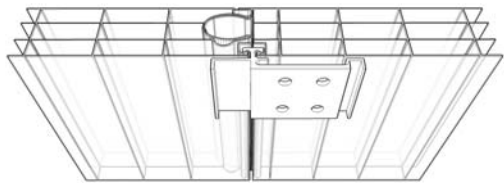
### Fastener

The Rodeca clip fastener is made of extruded aluminium (EN AW 6060, status T66 according to DIN EN 755-2).

### Fastening / fixing

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

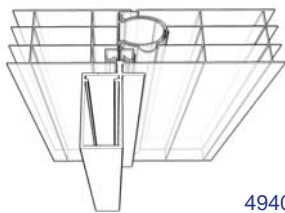
| 40 | System           | clip fastener |
|----|------------------|---------------|
|    | PC 2540-x AF 50  | 49405050      |
|    | PC 2540-x AF 100 | 494050100     |



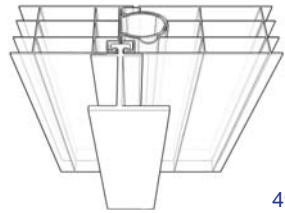
### Types

- Clip fastener
- Aluminium continuous fastener
- Translucent PC continuous fastener

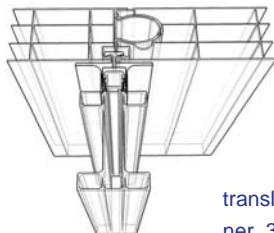
### Continuous fastener



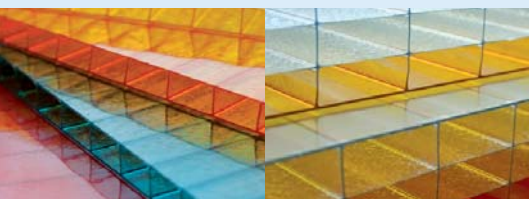
494097



494096



translucent PC continuous fastener 304001+304002





 RT-Thermolight  
RT-Thermolight

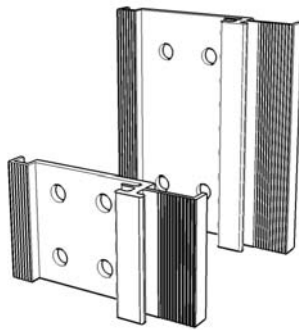
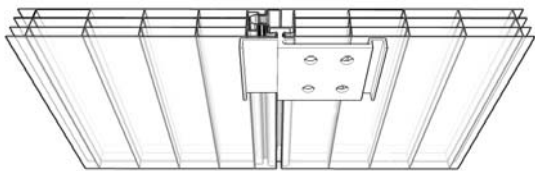
 RT roof lights  
RT Dachlichtbänder

 Windows  
Fenster

 Do it yourself  
Do it yourself

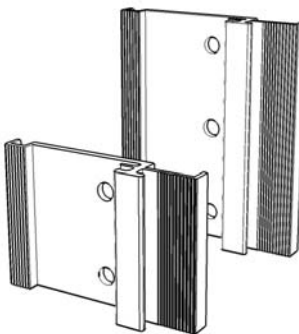
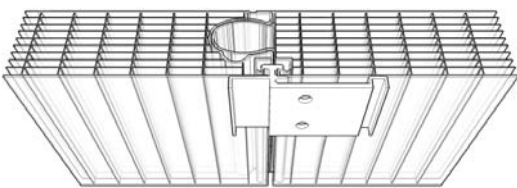
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| System           | Clip fastener |
|------------------|---------------|
| PC 2530-4 AF 50  | 49405050      |
| PC 2530-4 AF 100 | 494050100     |



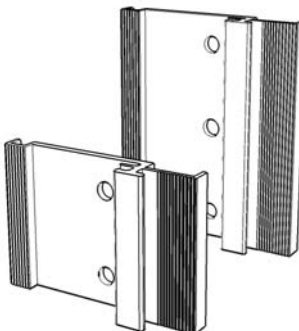
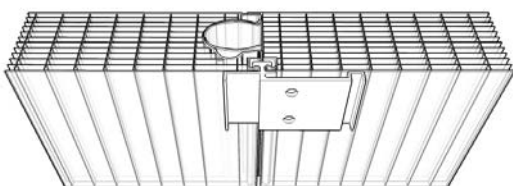
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| System            | Clip fastener |
|-------------------|---------------|
| PC 2550-10 AF 60  | 49405060      |
| PC 2550-10 AF 120 | 494050120     |



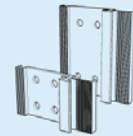
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| System            | Clip fastener |
|-------------------|---------------|
| PC 2560-12 AF 60  | 49405060      |
| PC 2560-12 AF 120 | 494050120     |

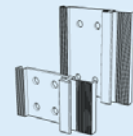


## Fasteners

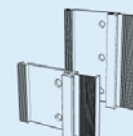
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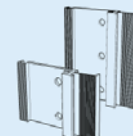
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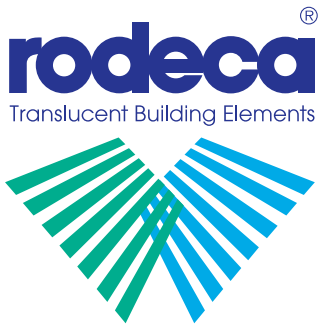


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## Translucent Building Elements

### Thermally broken aluminium frame profiles

The thermally broken frame profiles are made of extruded aluminium type EN AW-6060, status T 66 according to DIN EN 755-2. The ribs are made of fibre glass reinforced polyamide PA 66 with fibre glass part of 25%. The gaskets are available as EPDM and TPE versions.

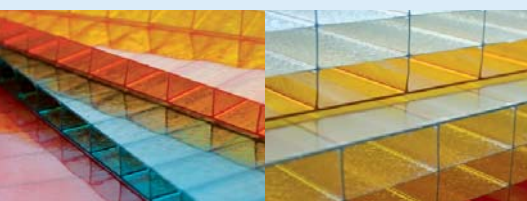
### Framing systems

The perimeter framing profiles are available in thermally broken and non-thermally broken versions. They provide the main retention point of the panels to give a clean and water tight finish to the facade perimeter. Available in mill or anodized finish or powder coated to RAL.



### Non-thermally broken aluminium frame profiles

The non-thermally broken frame profiles are made of extruded aluminium type EN AW-6060, status T 66 according to DIN EN 755-2. The gaskets are available as EPDM and TPE versions.





RT-Thermolight  
RT-Thermolight



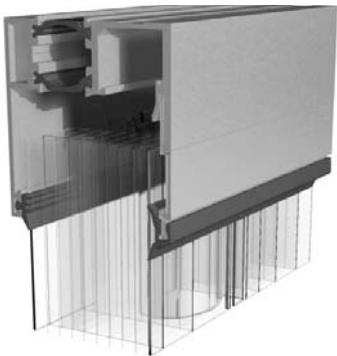
RT roof lights  
RT Dachlichtbänder



Windows  
Fenster

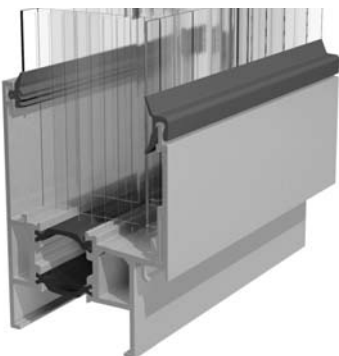


Do it yourself  
Do it yourself



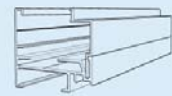
An example for thermally broken frame profiles

Two pieces top and side profile with inner and outer gasket

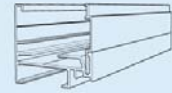


Two pieces base profile with inner and outer gasket

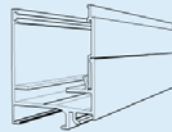
## Profiles



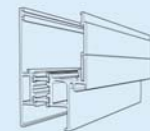
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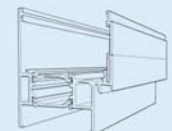
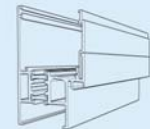
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## Application

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



## Qualität made in Germany – planen Sie mit uns

RODECA überzeugt seit über 40 Jahren mit Innovation und Erfahrung. Unsere vielfältig einsetzbaren, transparenten Bauelemente aus Polycarbonat sorgen weltweit für Aufsehen, zahlreiche Architekturpreise und Auszeichnungen belegen unsere Philosophie. Planen Sie mit RODECA die Fassaden von morgen.

## Quality made in Germany – Design with RODECA

RODECA is the market leader in innovation and design, having more than 40 years experience in the manufacture of translucent materials. Our architectural award winning, transparent polycarbonate building elements are recognised worldwide, demonstrating our philosophy. Design with RODECA the facades of tomorrow.

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[www.rodeca.de](http://www.rodeca.de)

### The RODECA product groups overview / Die RODECA Produktgruppen im Überblick:



#### Translucent Building Elements

Lichtbauelemente



#### Multi Wall Sheets

Hohlkammerscheiben



#### Multi Function Panels

Multi-Funktions-Paneele



#### U-Panels

U-Paneele



#### RT-Thermolight

RT-Thermolight



#### Roof Lights

RT-Dachlichtbänder



#### Windows

Fenster



#### Do it yourself

Do it yourself