



## Product range

**Translucent Building Elements made of polycarbonate**

Your specialist for translucent building elements

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

Production tolerances s. general information

## Versions

**Color:** the entire panel is coloured in one colour



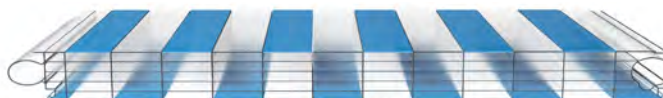
**BiColor:** two-coloured version of the panel, the inside layer has another colour than the rest of the panel



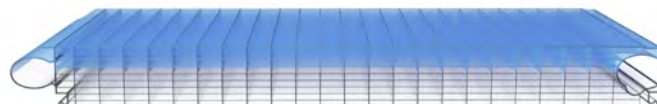
**DecoColor:** two-coloured version of the panel, the outside layer has another colour than the rest of the panel



**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

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**PC 2333-30-6**

|                       |  |
|-----------------------|--|
| Building width        | 333 mm   |
| Thickness             | 30 mm  |
| Weight                | approx. 3.0 kg/m <sup>2</sup>                                    |
| U <sub>p</sub> -value | 1.3 W/m <sup>2</sup> 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) |

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**PC 2540-4 MC**

|                       |   |
|-----------------------|---|
| Building width        | 500 mm  |
| Thickness             | 40 mm   |
| Weight                | approx. 4.0 kg/m <sup>2</sup>                                       |
| U <sub>p</sub> -value | 1.5 W/m <sup>2</sup> K vertical   1.6 W/m <sup>2</sup> 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)    |

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**PC 2540-4**

|                       |   |
|-----------------------|---|
| Building width        | 500 mm  |
| Thickness             | 40 mm   |
| Weight                | approx. 4.0 kg/m <sup>2</sup>   |
| U <sub>p</sub> -value | 1.4 W/m <sup>2</sup> K vertical   1.5 W/m <sup>2</sup> 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) |

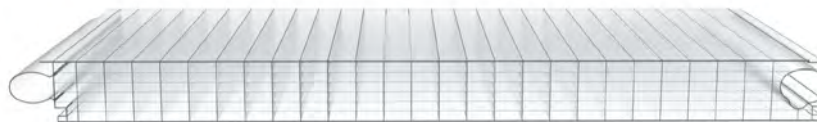
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**PC 2540-6**

|                       |  |
|-----------------------|--|
| Building width        | 500 mm   |
| Thickness             | 40 mm  |
| Weight                | approx. 4.2 kg/m <sup>2</sup>  |
| U <sub>p</sub> -value | 1.2 W/m <sup>2</sup> K vertical   1.2 W/m <sup>2</sup> 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) |

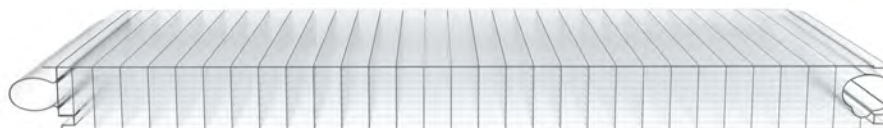
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**PC 2540-7**

|                       |   |
|-----------------------|---|
| Building width        | 500 mm  |
| Thickness             | 40 mm   |
| Weight                | approx. 4.3 kg/m <sup>2</sup>   |
| U <sub>p</sub> -value | 1.1 W/m <sup>2</sup> K vertical   1.2 W/m <sup>2</sup> 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) |

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**PC 2540-10**

|                       |  |
|-----------------------|--|
| Building width        | 500 mm   |
| Thickness             | 40 mm  |
| Weight                | approx. 4.2 kg/m <sup>2</sup>  |
| U <sub>p</sub> -value | 1.0 W/m <sup>2</sup> K vertical   1.0 W/m <sup>2</sup> 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) |

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**PC 2540-10DX**

|                       |  |
|-----------------------|--|
| Building width        | 495 mm   |
| Thickness             | 40 mm  |
| Weight                | approx. 4.6 kg/m <sup>2</sup>  |
| U <sub>p</sub> -value | 1.1 W/m <sup>2</sup> K vertical   1.1 W/m <sup>2</sup> 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) |

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**PC 2540-10DX HI**

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

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**PC 2550-10**

|                       |  |
|-----------------------|--|
| Building width        | 495 mm   |
| Thickness             | 50 mm  |
| Weight                | approx. 5.0 kg/m <sup>2</sup>  |
| U <sub>p</sub> -value | 0.90 W/m <sup>2</sup> K vertical   0.92 W/m <sup>2</sup> 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) |

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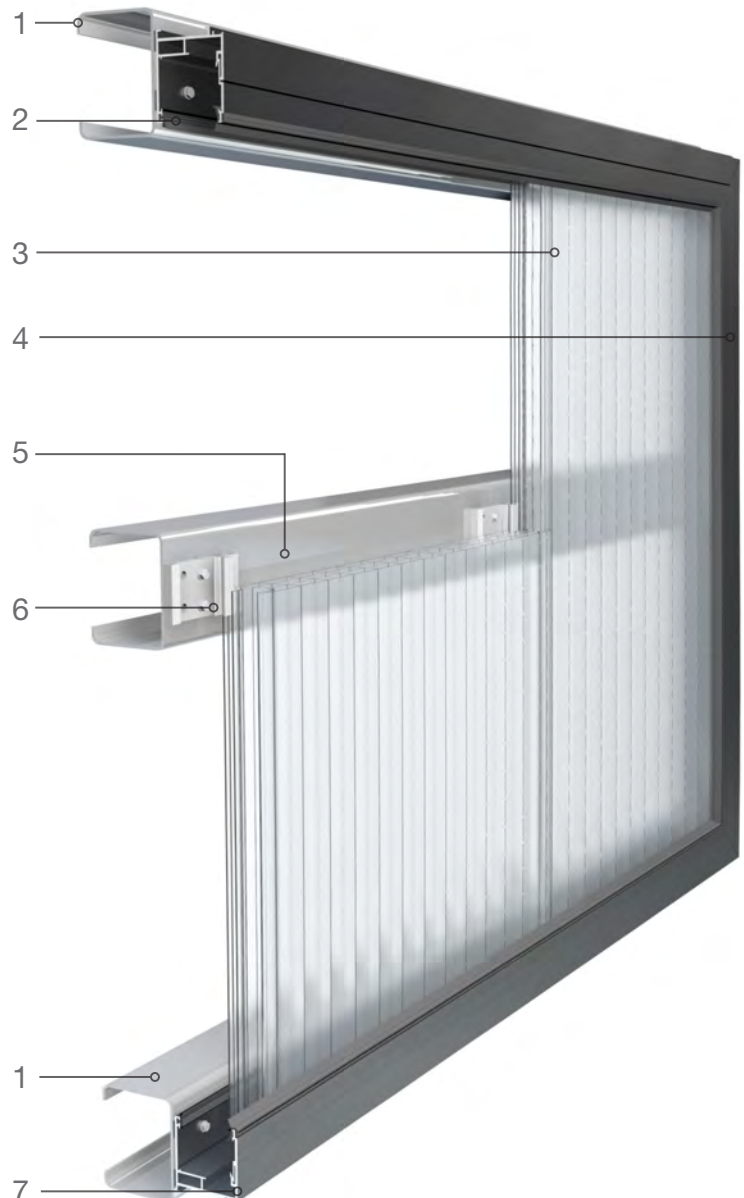
**PC 2560-12**

|                       |  |
|-----------------------|--|
| Building width        | 500 mm   |
| Thickness             | 60 mm  |
| Weight                | approx. 5.8 kg/m <sup>2</sup>  |
| U <sub>p</sub> -value | 0.75 W/m <sup>2</sup> K vertical   0.77 W/m <sup>2</sup> 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

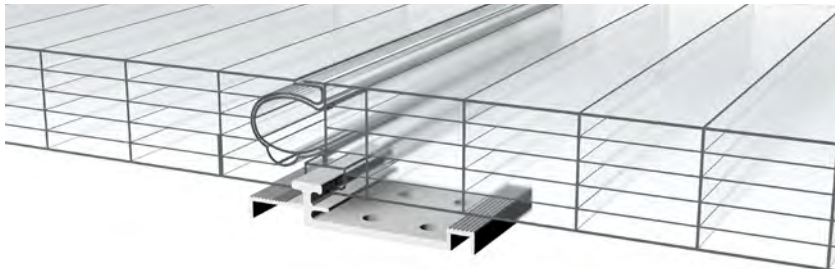


## Accessories

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



#### Aluminium fastener

| Versions  | Height | Panel system                                      |
|---|--------|---|
| mill finish / anodised E6/C0 / powder coated according to RAL<br>49404050 | 50 mm  | 2540-4   2540-4 MC   2540-6   2540-7<br>  2540-10 |
| 494040100   | 100 mm | 2540-4   2540-4 MC   2540-6   2540-7<br>  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   |

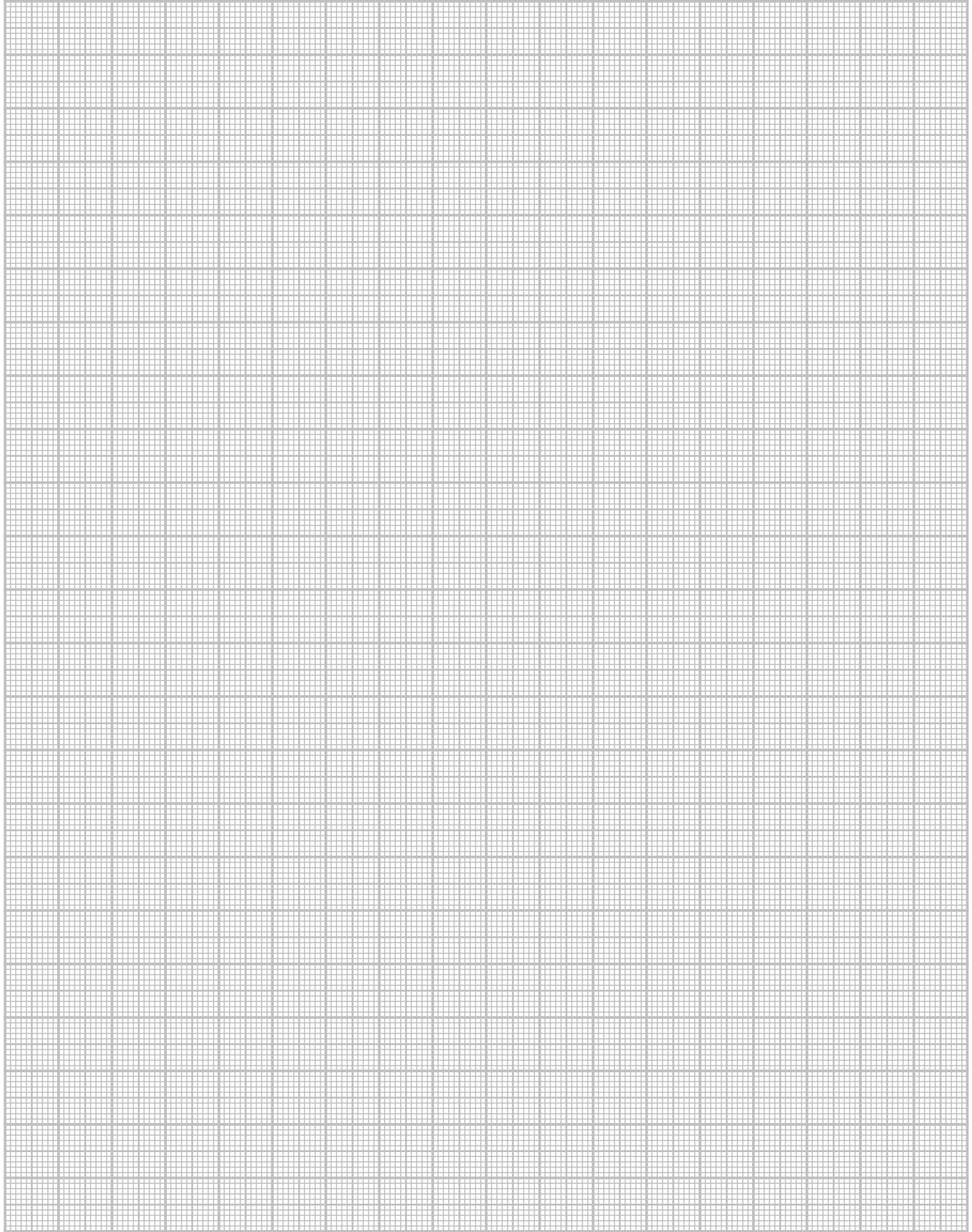


#### Aluminium frame profiles (delivery length 6,0 m)

| Versions   | Panel [mm]   | Version          | Height of profile |
|--|--------------|------------------|-------------------|
| mill finish / anodised E6/C0 / powder coated according to RAL<br>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>





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