rodeca®
Translucent Building Elements

1.1.1.1

Translucent Building Elements

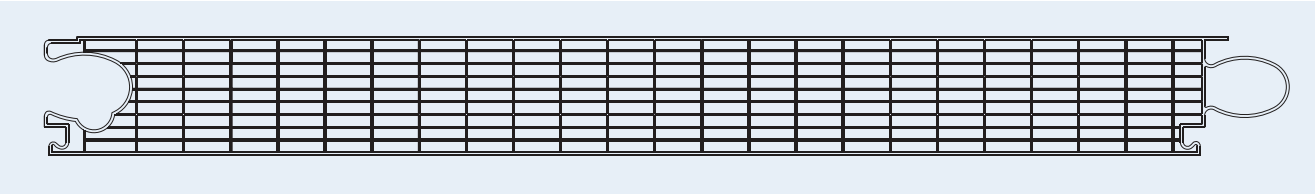
Product properties

Stand: 10/10

Up-Value from 0.80 W/m²K to 0.88 W/m²K

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

ENERGIE EFFIZIENZ made in Germany



Flammability classification:

PC 1550-10 ISOCLEAR	Fire class B 1 according to DIN 4102
PC 2550-10 ISOCLEAR	Fire class B 2 according to DIN 4102
PC 3550-10 ISOCLEAR	Fire class B, s 2 - d 0 according to DIN EN 13501

Building width:	495 mm +/- 1 %
Thickness:	50 mm +/- 1 %
Weight:	approx. 5.00 kg/m²
Number of layers:	10 layers /9 chambers
Modulus of elasticity:	2,400 N/mm²
Coefficient of linear expansion:	0.065 mm/m/°C
UV admission:	> 1 %, wave length until 380 nm stopped almost a 100 %
Production tolerances:	Length - 0/+ 15 mm (at room temperature) Flection: +/- 0.5 %

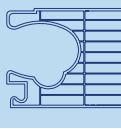
Versions:

Standard: Colour: crystal, opal antiblind, petrol, pacific blue

Color: Available in any solid colour similar to RAL
The Color version can be delivered with a minimum quantity of 300 m² without separate surcharges for colour change.

DuoColor: Two-coloured version of translucent building elements
Combinable with HEATBLOC

The DuoColor version can be delivered with a minimum quantity of 300m² without seperate surcharges for colour change.



rodeca®
Translucent Building Elements

1.1.1.2

Translucent Building Elements

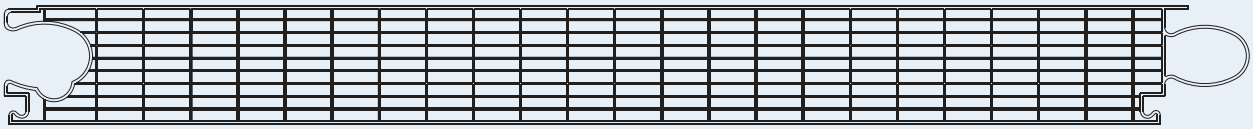
Product properties - Physical properties

Stand: 10/10

Up-Value from 0.80 W/m²K to 0.88 W/m²K

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

ENERGIE EFFIZIENZ made in Germany



Up-Values:
Isotherm- and temperature pattern
from -10 °C outside and 20 °C inside
at vertical assembly

Isotherms:

Red: 13°C
Blue: 10°C
Black: 0°C

Installation situation interior:
Up-Value 0.80 W/m²K vertical
Up-Value 0.84 W/m²K horizontal

Installation situation interior:
Up-Value 0.86 W/m²K vertical
Up-Value 0.88 W/m²K horizontal

Sound insulation: Rw 27 dB according to DIN EN ISO 140-3 in testing facility

Transmission:
Standard:

Colour: crystal	44 % TNO
Colour: opal antiblind	36 % TNO

Color:

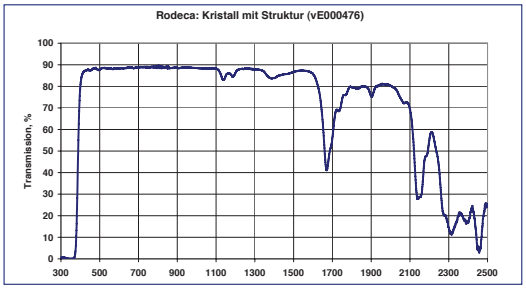
Depending on colour e. g.
Colour: petrol (~ RAL 6027) approx. 36 %

DuoColor:

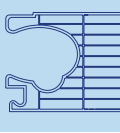
Depending on colour combination and level of opalization
For example colour combination:

Crystal/opal 037	approx. 41 %
Heatbloc S / crystal	25 % TNO
Heatbloc S / opal 067	20 % TNO

(TNO values = facility tested values)



(The Measurement of the transmission values was carried out with application of a natural day light lamp of 20,000 Lux in connection with a lux meter Lightmeter MS 1000-300 – measuring range 200 to 50,000 LUX) exemplarily on a 1 mm thick PC.)



rodeca®
Translucent Building Elements

1.1.1.3

Translucent Building Elements

Product properties - Physical properties

Stand: 10/10

Up-Value from 0.80 W/m²K to 0.88 W/m²K

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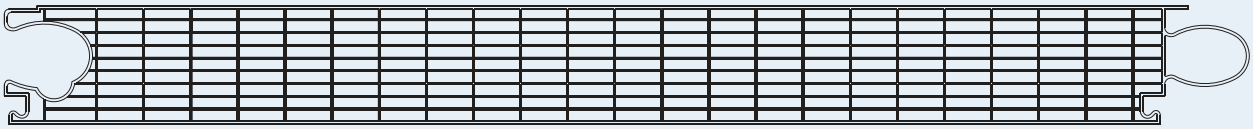
ENERGIE EFFIZIENZ made in Germany



Solar gain values g

Standard:	Colour: crystal	0.50 TNO
	Colour: opal antiblind	0.41 TNO
Color:	Depending on colour e .g. colour: petrol	
	(≈ RAL 6027)	approx. 0,45
DuoColor:	Depending on colour combination and level of opalization	
	For example colour combination	
	Crystal/opal 037	approx. 0.46
	Heatbloc S / crystal	0.25 TNO
	Heatbloc S / opal 067	0.26 TNO

(The g values are interpolated and may vary depending on the angle of sunshine incidence on the building surface. Basis is the test according to DIN 5036 made on the 40 mm translucent building elements executed by the Technical University of Berlin.
TNO values = facility tested values.)

The General German building approval Z-10.1-466 is requested and is currently in the final documentation phase and will be soon available. All following specification about the structural safety are based upon the element testings which were made in the context of the approval procedure. Flammability classifications don't have any influence of the structural safety aspects.

The RODECA translucent building elements in use with thermally broken or non-thermally broken frame systems have the following system names:

PC 2550-10	For single field constructions
PC 2550-10 AF 60	For two or several field constructions with Aluminium flat frame fastener in length 60 mm
PC 2550-10 AF 120	For two or several field constructions with Aluminium flat frame fastener in length 120 mm