1.2.1.3/1

Translucent Building Elements

Translucent Building Elements

Product properties - Physical properties

Stand: 10/10 ——

System PC 1540-4 | PC 2540-4 | PC 3540-4

Up-Value from 1.30 to 1.50 W/m²K

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

Flammability classifications:

PC 1540-4 PC 2540-4

PC 3540-4

Building width: Thickness: Weight:

Number of layers: Modulus of elasticity:

Coefficient of linear expansion:

UV admission:

Production tolerances:

fire class B 1 according to DIN 4102 fire class B 2 according to DIN 4102

fire class B, s 2 - d 0 according to DIN EN 13501

500 mm +/- 1 % 40 mm +/- 1 % approx. 4.00 kg/m² 4 layers / 3 chambers 2,400 N/mm² 0.065 mm/m/°C

> 1 %, wavelength until 380 nm stopped almost a 100 %

Length - 0/+ 15 mm (at room temperature)

Flection: +/- 0.5 %

Versions:

Standard:

BiColor:



Colours: crystal and opal antiblind

Two coloured versions of the translucent building elements. The BiColor version can be delivered with a minimum quantity of 150 m² without seperate surcharges for the standard colour combinations - Nonstandard combinations beginning from 300 m².

Standard colours:

crystal/RAL 1023 - yellow crystal/RAL 5015 - pazific blue crystal/RAL 2009 - orange crystal/RAL 6027 - petrol crystal/RAL 3020 - red crystal/RAL 6029 - verde crystal/RAL 4006 - viola crystal/opal

crystal/RAL 5002 - ultramarin blue

Please consider that the specification of RAL colour tones for transparent building materials is only on the basis on the RAL card usable. Please request samples when needed.

Up-values:

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



Isotherm:

Red: 13 °C Blue: 10 °C Black: 0 °C

Installation situation interior:

Up-value 1.30 W/m²K vertical Up-value 1.40 W/m²K horizontal

Installation situation exterior:

Up-value 1.40 W/m²K vertical Up-value 1.50 W/m²K horizontal

Sound insulation: approx. 24 dB Rw



1.2.1.3/2

rodecd Translucent Building Elements

Translucent Building Elements

Physical properties

Stand: 10/10 -

Transmission:

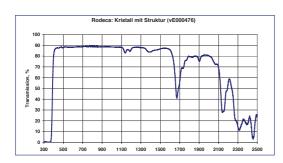
Standard: Colour: crystal 66 % TNO Colour: opal antiblind 48 % TNO

BiColor: Depending on colour combinations and

Level of opalization

For example colour combination

Crystal / opal antiblind approx. 66 % Heatbloc S / petrol approx. 45 % Crystal / pacific blue approx. 51 %



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.

Solar gain values g

Standard: Colour: crystal 0.68 TNO Colour: opal antiblind 0.56 TNO

BiColor: Depending on colour combinations and

Level of opalization

For example colour combination

Crystal / opal antiblind approx. 0.66 Heatbloc S / petrol approx. 0.45 Crystal / pacific blue approx. 0.51

(The g-values were partially tested at TNO. The values without TNO declaration are interpolated g-values on the basis of testing results of the TNO or rather tests of the technical university of Berlin. Please consider that the g-values differ depending on sun incidence angle.)

The general German Building Approval Z-10.1-327 is currently in the final extension phase and will be soon available. All following information to stability are based on assembly testings carried out in line of the German building approval procedure. Flammability classifications don't have influence to the aspects of stability

The aforesaid information and our application technological advice in words, written and through tries, are carried out to the best of one's knowledge. This information is non-binding advice even in regards to property rights of third party. Our advice does not release you from your responsability to proof self dependently our current advices - especially our safety data sheets and technical information - and to test our products regarding to applicability for the intended system and use. Application, use and handling of our products - produced based on our application technological advice - take place out of our control and therefore you are solely responsible. The sales of our products is effected at our current general sales and delivery conditions.

