Certificate

Certified Passive House component for cool, temperate climate, valid until 31.12.2016

Category: Manufacturer: Curtain Wall Raico Bautechnik GmbH 87772 Pfaffenhausen, GERMANY THERM+ 50 A-V

Product name:

The following comfort criteria were used in awarding this certificate:

Given a Ug value of 0.7 W/(m²K) and an element size of 1.20 m by 2.50 m,

$U_{CW} = 0.80 \text{ W/(m^2K)} \le 0.80 \text{ W/(m^2K)}$

Taking into account the installation based thermal bridges, and provided that the installation is, with regard to the thermal bridges, equal or better than shown in the data sheet, the facede meets the following criterion.

 $U_{CW,eingebaut} \leq 0.85 W/(m^2K)$

Thermal data of the construction

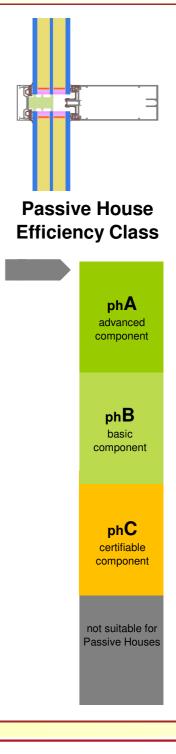
	U _f -value [W/(m ² K)]	Width [mm]	Ψ _g [W/(mK)]	f _{Rsi=0.2} [-]
Spacer			Swisspacer V*	
Transom (t)	0.86	50	0.038	0.82
Mullion (m)	0.87	50	0.038	0.02
Thermal glass of	0.005			

*Spacers of lower thermal quality, especially those made of aluminium, lead to significantly higher thermal losses and lower temperature factors.

Further information see data sheet



Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY

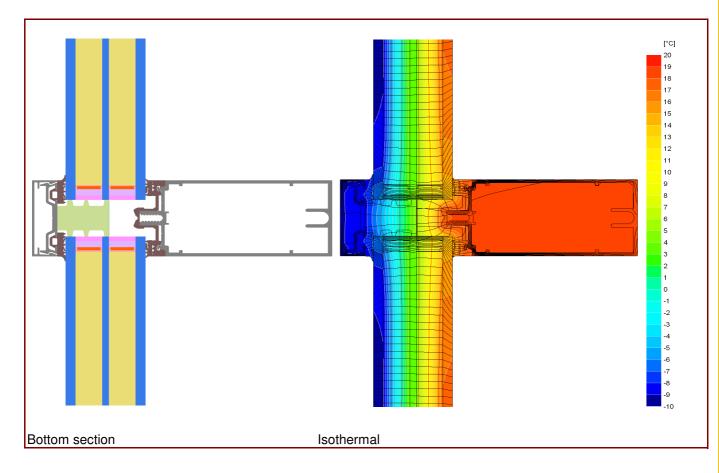


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Data Sheet Raico Bautechnik GmbH, THERM+ 50 A-V

Manufacturer Raico Bautechnik GmbH 87772 Pfaffenhausen, GERMANY Tel.: +49 (0) 8265 911 0 www.raico.de



Description

Aluminium construction, Aluminium covering- and pressure-strip. PE-foam insulator in the glazing rebate, inside covered by reflecting Aluminium foil (ϵ =0,05). Plastic glass-carier on stainless steel screws. Used Pane: 48 mm (6/16/4/16/6), intersection of the Glass: 13 mm. Used spacer: Swisspacer V

Thermal data

	U _f -value	Width	Ψ_{g}	f _{Rsi=0.20}		
	[W/(m²K)]	[mm]	[W/(mK)]	[-]		
Spacer			Swiss	Swisspacer V*		
Transom (t)	0.86	50	0.038	0.82		
Mullion (m)	0.87	50	0.038			
Opening element						
-						
Thermal glass car	0.005					
1: Includes $\Delta U = 0.2 \text{ W/(m^2K)}$, Determined by measurement (ift)						
2: Determined by 3D thermal flux simul. (PHI)						

Depending on the thermal losses through opaque elements, windows are categorised in to efficency classes. These thermal losses include the losses through the frame, multiplied by its width, the thermal bridge at the edge bond as well as the length of the edge bond. Please ask the manufacturer for a detailed report.

* Spacers of lower thermal quality leading to higher thermal losses and lower temperatures.

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