

Certificate

Certified Passive House component

for cool, temperate climate, valid until 31.12.2016

Category: Curtain Wall

Manufacturer: Raico Bautechnik GmbH

87772 Pfaffenhausen, GERMANY

Product name: THERM+ 50 S-I T-Profil

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,

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

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.

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

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)	0.85	50	0.037	0.81
Mullion (m)	0.85	50	0.037	0.01
Thermal glass	0.006			

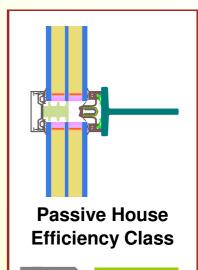
*Spacers of lower thermal quality, especially those made of aluminium, lead to significantly higher thermal losses and lower temperature factors.

Further information see data sheet

www.passivehouse.com

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Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY



phA

advanced component

phB

basic component

phC certifiable component

not suitable for Passive Houses





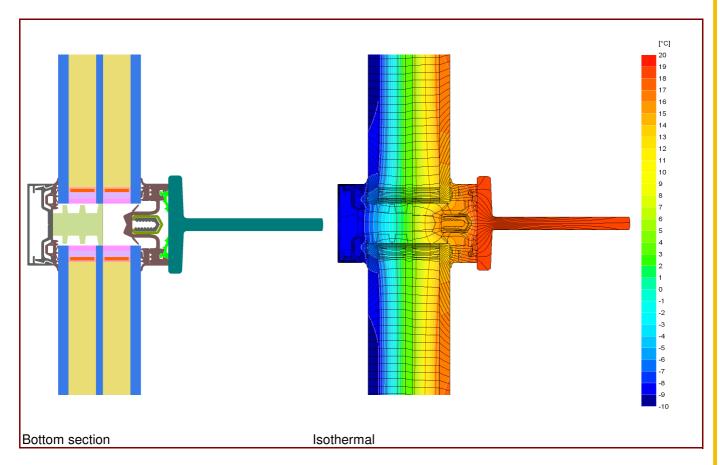
Data Sheet Raico Bautechnik GmbH, THERM+ 50 S-I T-Profil

Manufacturer Raico Bautechnik GmbH

87772 Pfaffenhausen, GERMANY

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Description

Steel construction wit wedled system carrier. Aluminium covering- and pressure-strip. PE-foam insulator in the glazing rebate (0,038 W/(mK)). 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: 12 mm. Used spacer: Swisspacer V

Thermal data

	U _f -value	Width	Ψ_{g}	f _{Rsi=0.20}
	$[W/(m^2K)]$	[mm]	[W/(mK)]	[-]
Spacer			Swisspacer V*	
Transom (t)	0.85	50	0.037	0.81
Mullion (m)	0.85	50	0.037	0.61
Opening element				
-				
Thermal glass car	0.006			

^{1:} Includes $\Delta U = 0.19 \text{ W/(m}^2\text{K)}$, Determined by measurement (ift)

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

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.

^{2:} Determined by 3D thermal flux simul. (PHI)