

# Certificate

## Certified Passive House component

for cool, temperate climate, valid until 31.12.2013

Passive House Institute  
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Category: **Curtain Wall**  
 Manufacturer: **Schüco International KG**  
**33609 Bielefeld, GERMANY**  
 Product name: **FW 50+.SI PH zert. (Alu Anpressl.)**

The following comfort criteria were used in awarding this certificate:

Given a  $U_g$  value of  $0,7 \text{ W}/(\text{m}^2\text{K})$  and an element size of  $1.23 \text{ m}$  by  $2.50 \text{ m}$ ,

$$U_{CW} = 0,80 \text{ W}/(\text{m}^2\text{K}) \leq 0.80 \text{ W}/(\text{m}^2\text{K})$$

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 facade meets the following criterion.

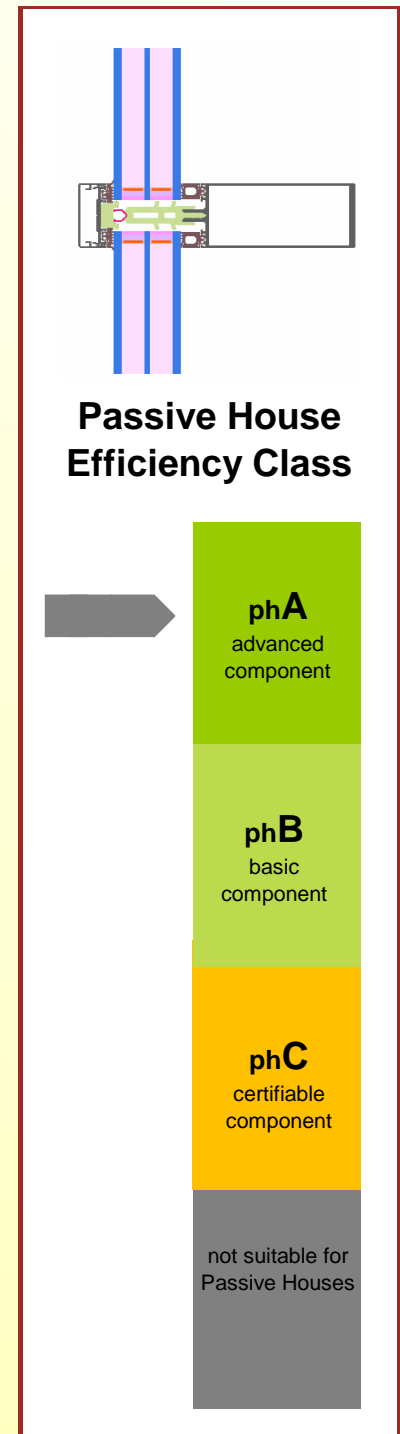
$$U_{CW, \text{eingebaut}} \leq 0.85 \text{ W}/(\text{m}^2\text{K})$$

### Thermal data of the construction

	$U_f$ -value [W/(m <sup>2</sup> K)]	Width [mm]	$\Psi_g$ [W/(mK)]	$f_{R_{si}=0,2}$ [-]
Spacer	Swisspacer V*			
Transom (t)	0,84	50	0,036	0,82
Mullion (m)	0,85	50	0,036	
Thermal glass carrier bridge $\chi_{GT}$ [W/K]:				0,014

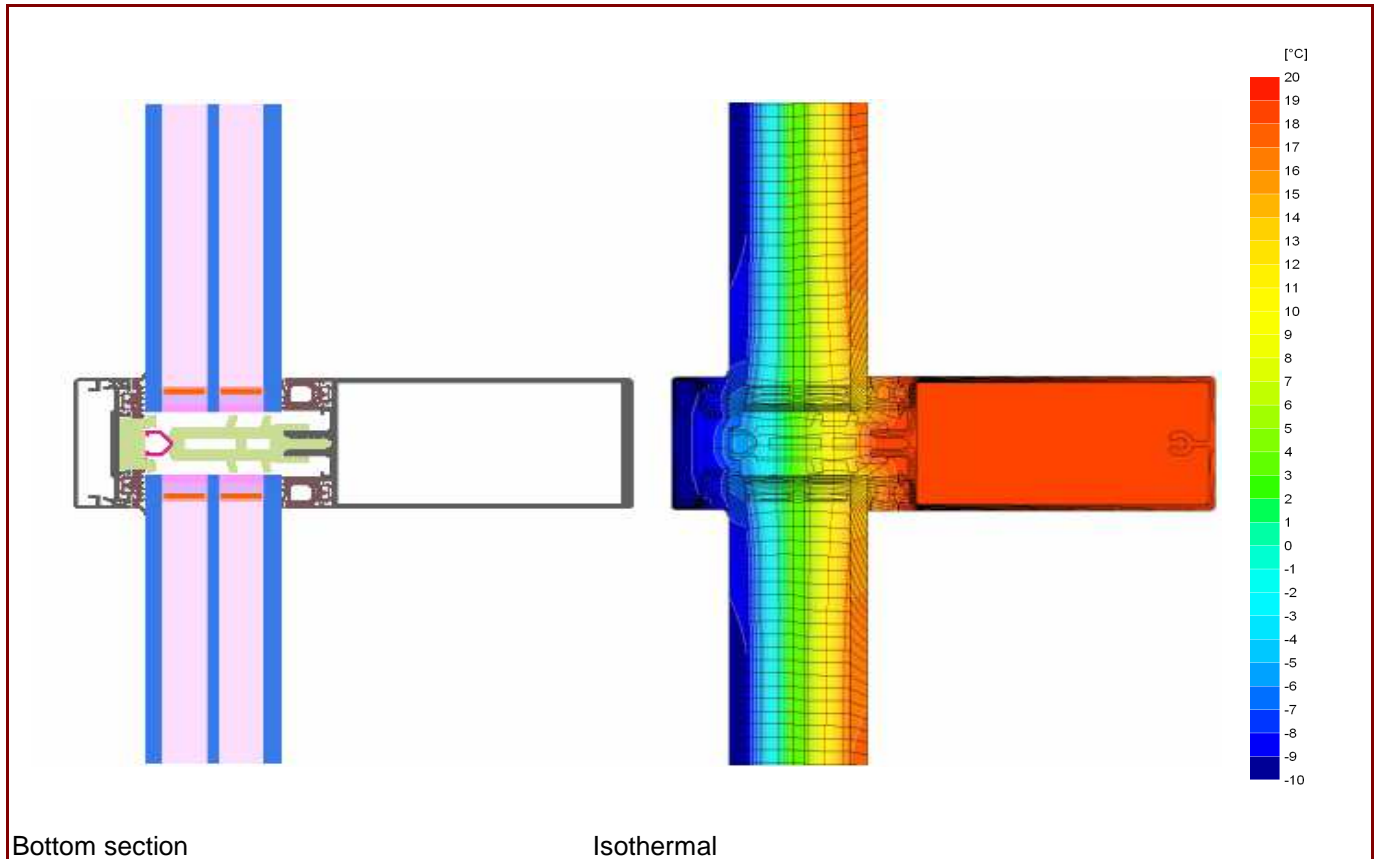
\*Spacers of lower thermal quality, especially those made of aluminium, lead to significantly higher thermal losses and lower temperature factors.

Further information see data sheet



# Data Sheet Schüco International KG, FW 50+.SI PH zert. (Alu Anpressl.)

**Manufacturer** Schüco International KG  
 33609 Bielefeld, GERMANY  
 Tel.: +49 (0) 521 783 0  
 www.schueco.de



## Description

Aluminium construction, Aluminium covering-strip. Alu ressure-strip, inside covered by reflecting Aluminium foil. PE-foam insulator in the glazing rebate, stainless steel glass-carrier. Used Pane: 48 mm (6/16/4/16/6), intersection of the Glass: 13 mm. Used spacer: Swisspacer V

## Thermal data

	$U_f$ -value [W/(m <sup>2</sup> K)]	Width [mm]	$\Psi_g$ [W/(mK)]	$f_{Rsi=0.20}$ [-]
Spacer	Swisspacer V*			
Transom (t)	0,84	50	0,036	0,82
Mullion (m)	0,85	50	0,036	
Opening element				
-				
Thermal glass carrier bridge $\chi_{GT}$ [W/K]:				0,014
1: Includes $\Delta U = 0,17$ W/(m <sup>2</sup> K), 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 efficiency 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.