

Certificate

Certified Passive House component

for cool, temperate climate, valid until 31.12.2016

Passive House Institute
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GERMANY

Category: **Curtain Wall**
Manufacturer: **SCHÜCO International KG**
33609 Bielefeld, GERMANY
Product name: **AOC 60 ST.SI**

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 1.20 m by 2.50 m ,

$$U_{CW} = 0,79 \text{ W}/(\text{m}^2\text{K}) \leq 0,80 \text{ W}/(\text{m}^2\text{K})$$

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.

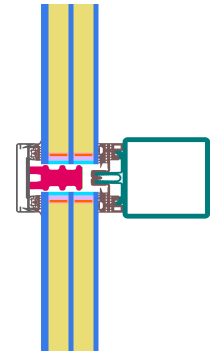
$$U_{CW, \text{installed}} \leq 0.85 \text{ W}/(\text{m}^2\text{K})$$

Thermal data of the construction

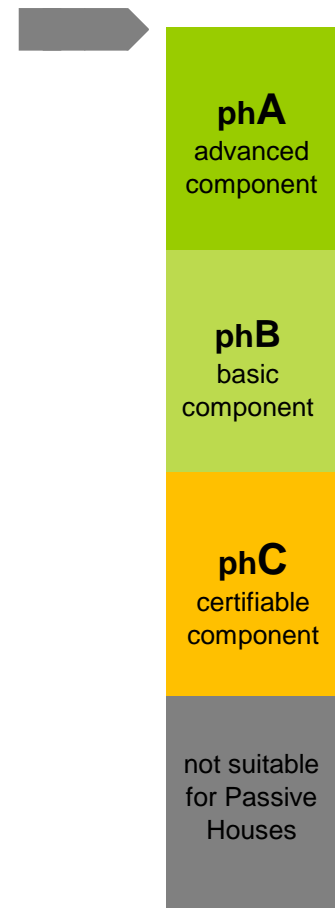
	U_f -value [W/(m ² K)]	Width [mm]	Ψ_g [W/(mK)]	$f_{Rsi=0,25}$ [-]
Spacer	SwisspV PU*			0,81
Transom (t)	0,91	60	0,031	
Mullion (m)	0,91	60	0,031	
Thermal glass carrier bridge χ_{GT} [W/K]:				0,004

*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 Efficiency Class

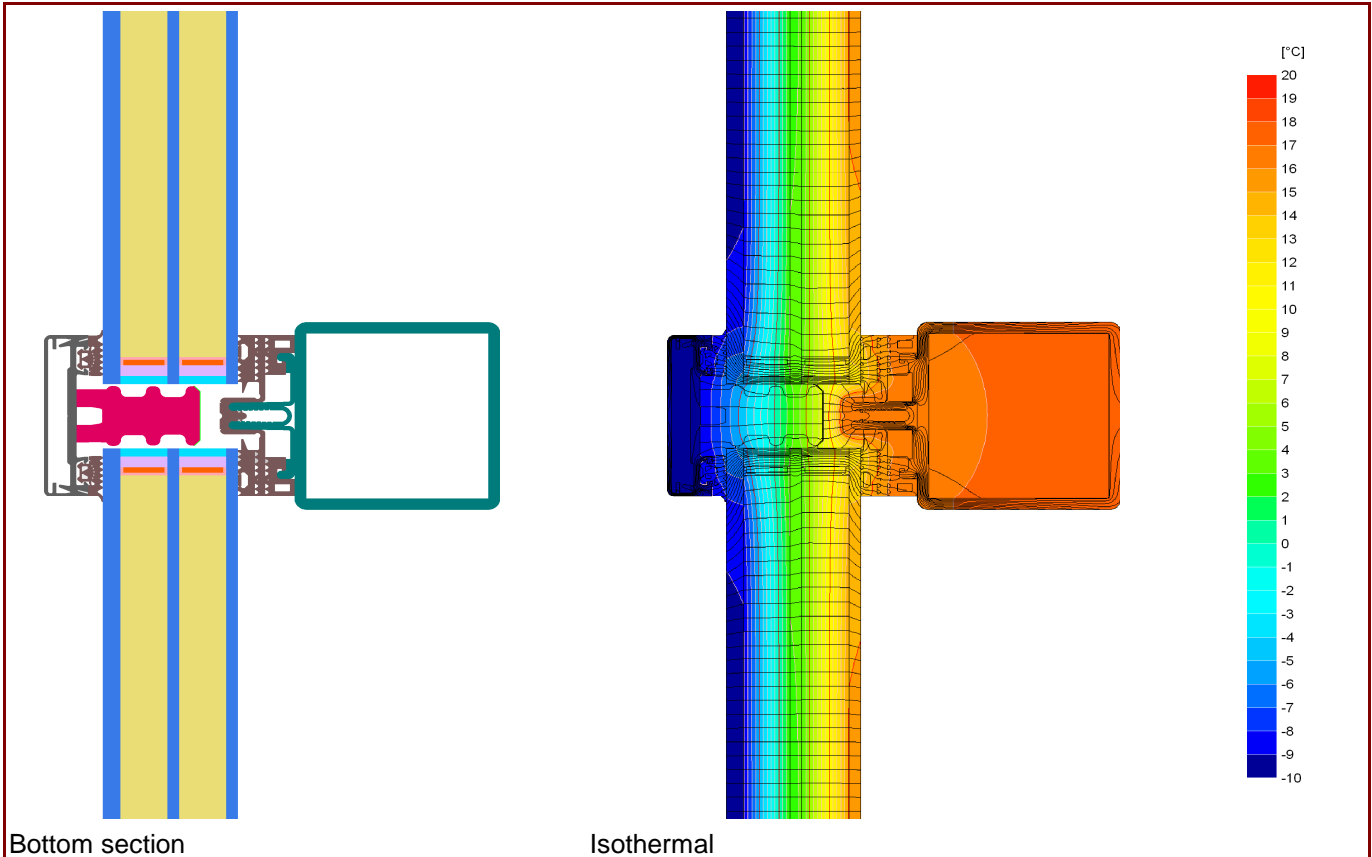


CERTIFIED COMPONENT

Passive House Institute

Data Sheet SCHÜCO International KG, AOC 60 ST.SI

Manufacturer SCHÜCO International KG
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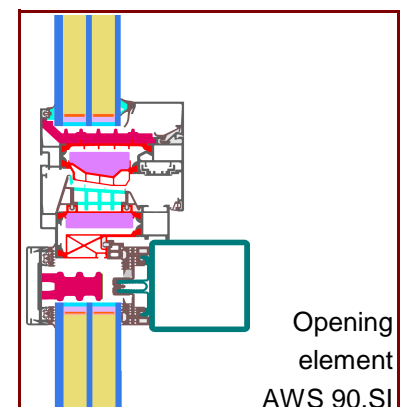


Description

Steel construction, with steel system carrier. Covering- and pressure-strip from aluminium. PE-foam insulator in the glazing rebate (0,040 W/(mK)), cover by aluminium foil on the inside. . Used Pane: 46 mm (4/16/4/16/6), intersection of the Glass: 18 mm. Used spacer: SwisspV PU

Thermal data

	U _f -value [W/(m²K)]	Width [mm]	Ψ _g [W/(mK)]	f _{Rsi=0.25} [-]
Spacer				SwisspV PU*
Transom (t)	0,91	60	0,031	0,81
Mullion (m)	0,91	60	0,031	
Opening element	1,29	167	0,022	0,77
-				
Thermal glass carrier bridge χ _{GT} [W/K]:				0,004
1: Includes ΔU = 0,22 W/(m²K), measured by ift Rosenheim				
2: Measured by ift Rosenheim				



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