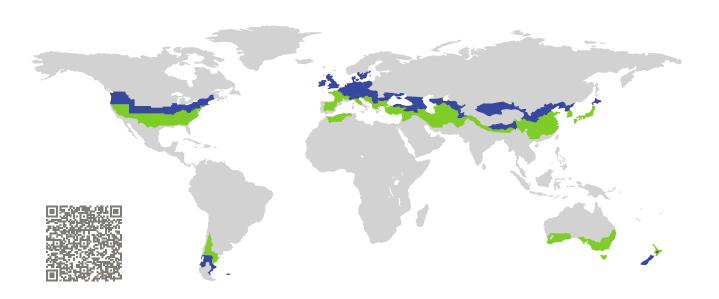
CERTIFICATE

Certified Passive House Component

Component-ID 2083cw03 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Curtain Wall

Manufacturer: SCHÜCO International KG,

Bielefeld, Germany

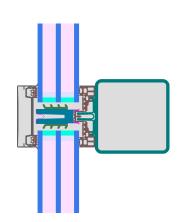
Product name: AOC 75 ST

This certificate was awarded based on the following criteria for the cool, temperate climate zone

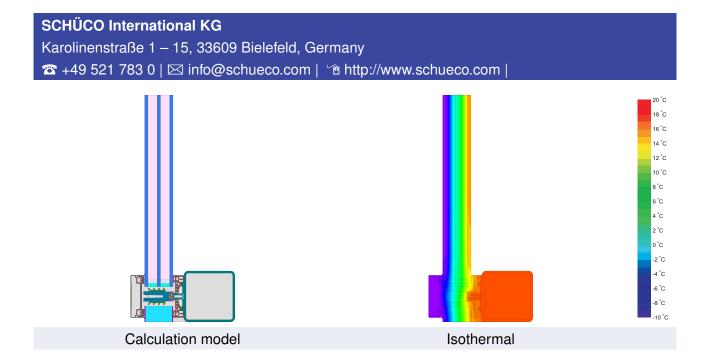
 $\mbox{Comfort} \quad \mbox{U_{CW}= 0.80 } \quad \leq \quad \mbox{0.80 W/(m^2 \ K)} \label{eq:comfort}$

 $U_{CW,\text{installed}} \leq 0.85 \,\text{W/(m}^2 \,\text{K)}$ with $U_q = 0.70 \,\text{W/(m}^2 \,\text{K)}$

Hygiene $f_{Rsi=0.25}$ \geq 0.70







Description

steel curtain wall; reduction of radiation losses by way of blank aluminium pressure plate; insulator made from XPET, PE and PE-foam Pane thickness: 50 mm (6/16/6/16/6), rebate depth: 20,5 mm. Spacer: SWISSPACER Ultimate with butyl as secondary seal.

Explanation

The element U-values were calculated for the test element size of $1.20 \,\mathrm{m} \times 2.50 \,\mathrm{m}$ with $U_g = 0.70 \,\mathrm{W/(m^2 \, K)}$. If a higher quality glazing is used, the element U-values will improve as follows:

Glazing	$U_g =$	0.70	0.68	0.56	0.52	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Element	U_{CW}	0.80	0.78	0.67	0.63	W/(m ² K)

Transparent building components are sorted into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations performed in the context of certification is available from the manufacturer.

The Passive House Institute has defined international component criteria for seven climate zones. In principle, components that have been certified for climate zones with higher thermal requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense to use a component of a higher thermal quality which has been certified for a climate zone with more stringent requirements.

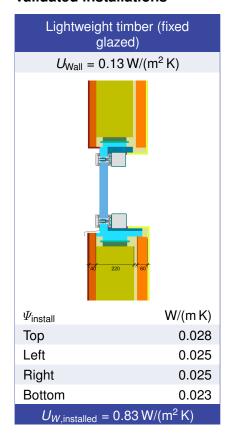
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

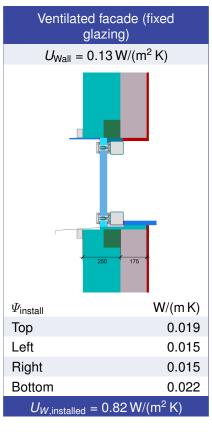
2/4 AOC 75 ST

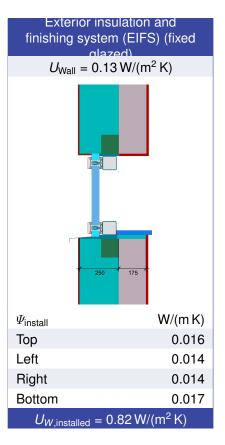
Frame value	es		Frame width <i>b_f</i> mm	U -value frame U_f^{-1} W/(m 2 K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion fixed	(0M1)	-	75	0.86	0.034	0.79
Transom fixed	(0T1)	•	75	0.86	0.034	0.79
Bottom fixed	(FB1)		83	0.82	0.034	0.79
Top fixed	(FH1)	T	83	0.82	0.034	0.79
Lateral fixed	(FJ1)		83	0.82	0.034	0.79
	Sp	pacer: S	WISSPACER ULTIN	IATE S	Secondary seal: Buty	

Thermal glass carrier bridge² $\chi_{GT} = 0.004 \text{ W/K}$

Validated installations







¹Includes $\Delta U = 0.22 \text{ W/(m}^2 \text{ K)}$. Determined through measurement

²Standard value. Glass carrier type: Non-metallic

