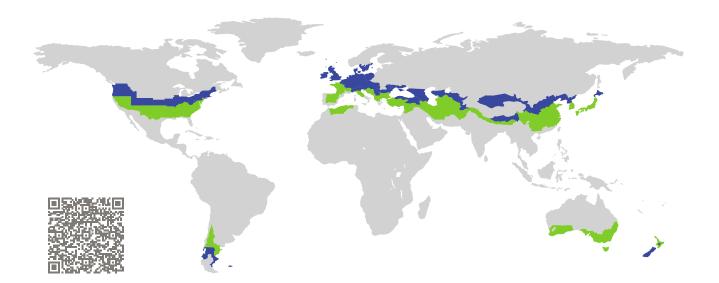
CERTIFICATE

Certified Passive House Component Component-ID 2054cw03 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



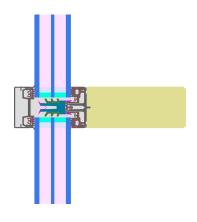
Category:	Curtain Wall
Manufacturer:	SCHÜCO International KG, Bielefeld, Germany
Product name:	AOC 50 TI

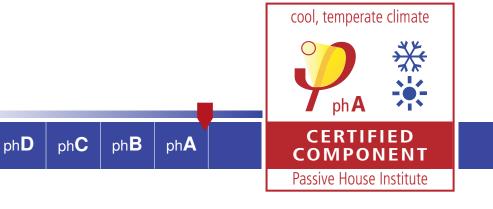
This certificate was awarded based on the following criteria for the cool, temperate climate zone

Comfort	$U_{CW} = 0.80$	\leq	0.80 W/(m ² K)
	U _{CW,installed}	\leq	0.85 W/(m ² K)
	with U_g	=	0.70 W/(m ² K)

phE

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

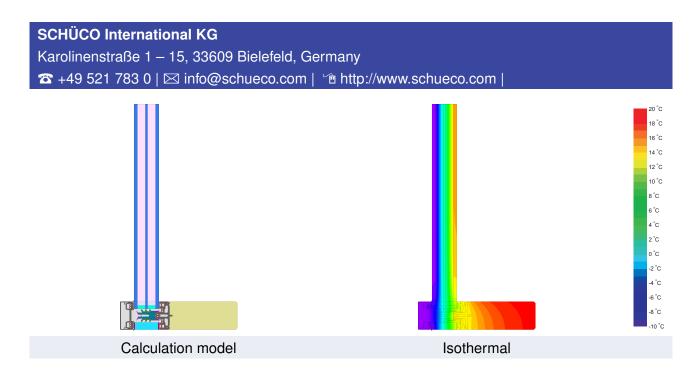




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Passive House

efficiency class



Description

wood curtain wall; reduction of radiation losses by way of blank aluminium pressure plate; insulator made from XPET, PE and PE-foam Pane thickness: 44 mm (6/14/4/14/6), rebate depth: 13 mm. Spacer: SWISSPACER Ultimate with butyl as secondary seal.

Explanation

The element U-values were calculated for the test element size of $1.20 \text{ m} \times 2.50 \text{ m}$ with $U_g = 0.70 \text{ W}/(\text{m}^2 \text{ K})$. 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	0.79	0.67	0.64	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.

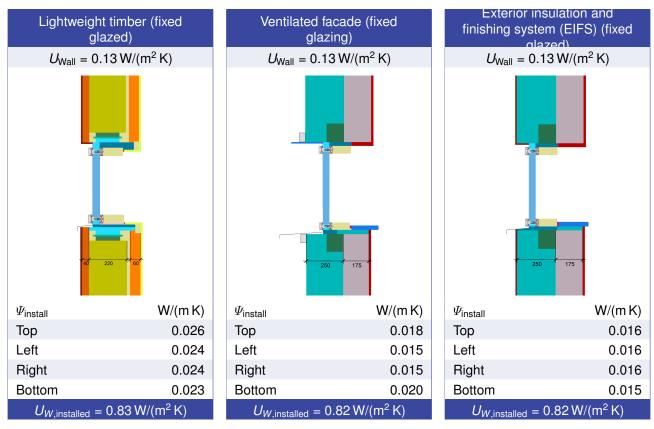
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components that have been certified for climate zones with higher thermal requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make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

Frame value	es		Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U</i> _f ¹ W/(m ² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion fixed	(0M1)	-	50	0.91	0.037	0.73
Transom fixed	(0T1)	+	50	0.91	0.037	0.73
Bottom fixed	(FB1)	1	50	0.85	0.036	0.72
Top fixed	(FH1)	T.	50	0.85	0.036	0.72
Lateral	(FJ1)		50	0.85	0.036	0.72
	S	pacer: S'	WISSPACER ULTIN	IATE S	Secondary seal: Buty	1

Thermal glass carrier bridge² χ_{GT} = 0.004 W/K

Validated installations



¹Includes ΔU = 0.18 W/(m² K). Determined through measurement ²Standard value. Glass carrier type: Non-metallic

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