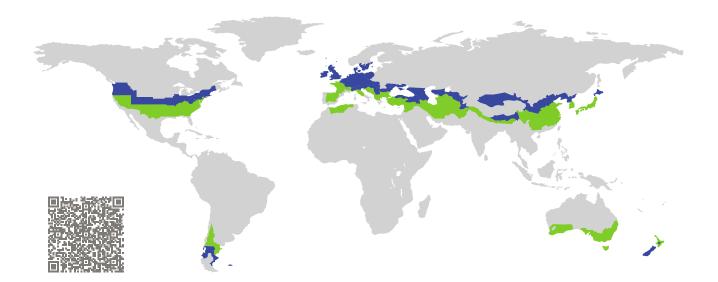
CERTIFICATE

Certified Passive House Component

Component-ID 2072wi03 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

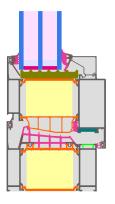


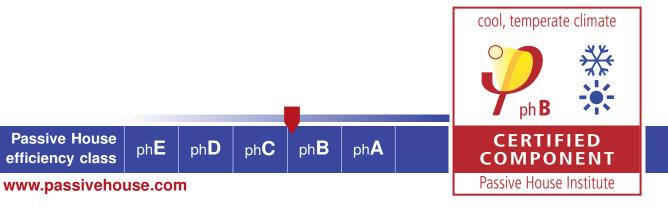
Category:	Window Frame
Manufacturer:	Bucalus Windows (Doors) and
	Curtain Wall System Company Ltd,
	Qingyuan, Guangdong Province,
	China
Product name:	AW100

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

Comfort	$U_W = 0.77$	\leq	0.80 W/(m ² K)
	$U_{W,\text{installed}}$	\leq	$0.85 W/(m^2 K)$
	with U_g	=	$0.70 W/(m^2 K)$

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

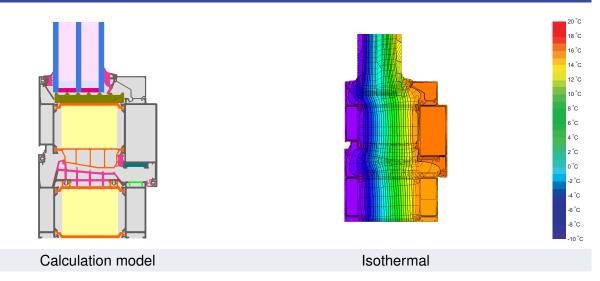




Bucalus Windows (Doors) and Curtain Wall System Company Ltd

No. 14 Baijia Industry Zone, High-tech Development Zone, 511500 Qingyuan, Guangdong Province, China

☎ +86 400 830 1300 | 🖂 | 🖆 http://www.bucalu.com |



Description

Aluminium frame with thermal separation (low lambda PA 0.21 W/(mK)) and insulation (Kooltherm 0.022 W/(mK), PE foam 0.038 W/(mK)); Pane thickness: 47 mm (5/16/5/16/5); Rebate depth: 15 mm; Spacer: Technoform-Spacer SP16; Secondary sealing: Silicone

Explanation

The window U-values were calculated for the test window size of 1.23 m \times 1.48 m with $U_g = 0.70$ W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

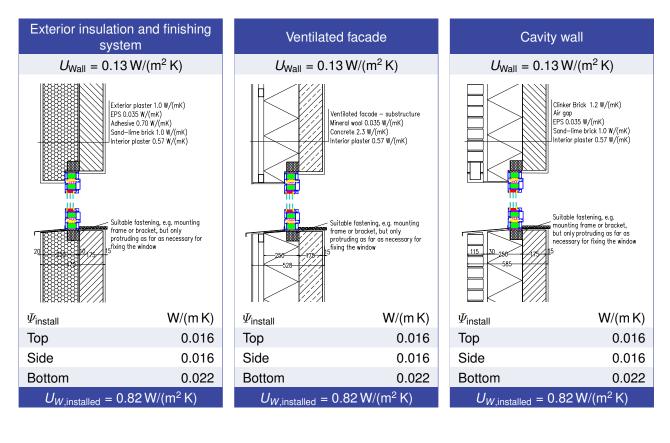
Glazing	$U_g =$	0.70	0.64	0.58	0.54	$W/(m^2 K)$
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	0.77	0.74	0.70	0.68	W/(m ² K)

Transparent building components are classified 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 which have been certified for climate zones with higher 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.

Validated installations



Frame value	s		Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U</i> f W/(m ² K)	$arPsi_{-}$ glazing edge $arPsi_{g}$ W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion 1 casement	(1M1)	-1	179	0.71	0.028	0.73
Bottom	(OB1)	4	150	0.72	0.028	0.73
Тор	(OH1)	T	150	0.72	0.028	0.73
Lateral	(OJ1)	11-	150	0.72	0.028	0.73
	Spacer: Technoform-Spacer SP16 Secondary seal: Silicone					ne

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