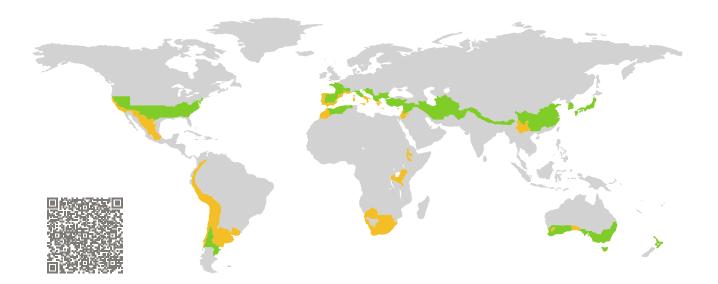
CERTIFICATE

Certified Passive House Component Component-ID 1350wi04 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

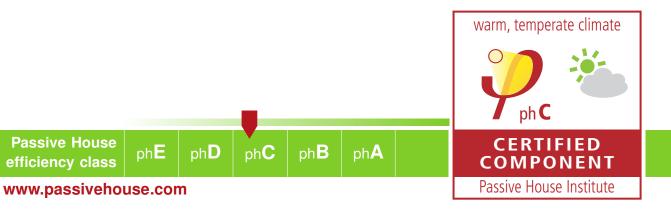


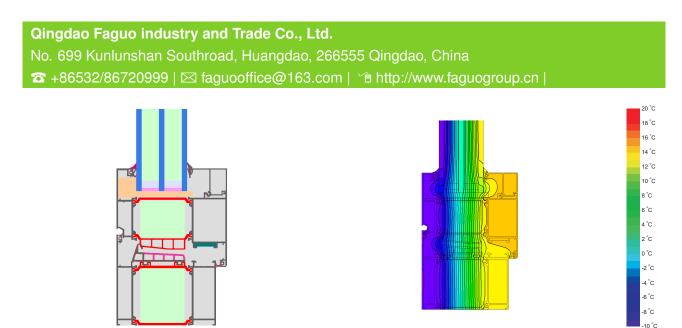
Category:	Window Frame
Manufacturer:	Qingdao Faguo industry and Trade
	Co., Ltd.,
	Qingdao,
	China
Product name:	Faguo Aluminum window

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

Comfort	$U_W = 0.99$ $U_{W,\text{installed}}$ with U_g	\leq	1.00 W/(m ² K) 1.05 W/(m ² K) 0.90 W/(m ² K)	
Hygiene	f _{Rsi=0.25}	\geq	0.65	







Calculation model

Isothermal

Description

Thermally separated aluminium frame with insulation (PU foam 0.028 W/(mK)); Pane thickness: 47 mm (5/16/5/16/5), rebate depth: 21 mm, spacer: SWISSPACER Ultimate

Explanation

The window U-values were calculated for the test window size of 1.23 m \times 1.48 m with U_g = 0.90 W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

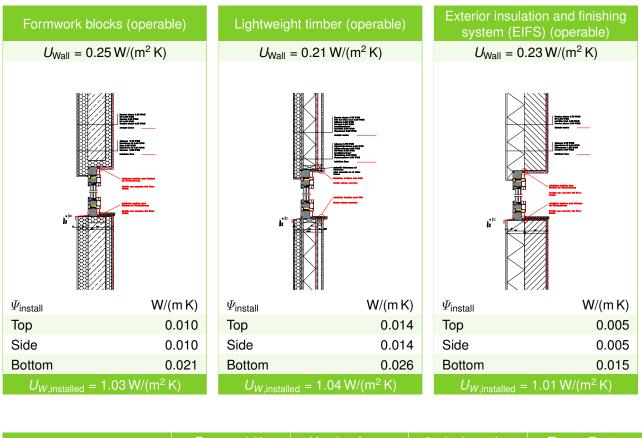
Glazing	$U_g =$	0.90	0.80	0.70	0.60	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	0.99	0.93	0.87	0.81	W/(m ² K)

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	es		Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U</i> f W/(m ² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion 1 casement	(1M1)	-1	148	1.02	0.028	0.74
Bottom	(OB1)		145	0.97	0.027	0.76
Тор	(OH1)	F	145	0.97	0.027	0.76
Lateral	(OJ1)	1	145	0.97	0.027	0.76
Spacer: SWISSPACER Ultimate Secondary s				ndary seal: Polysulfic	le	

www.passivehouse.com