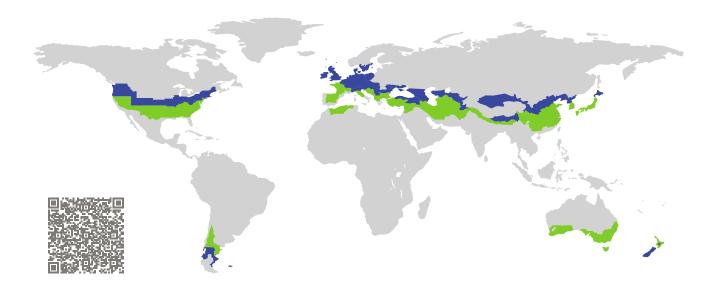
# CERTIFICATE

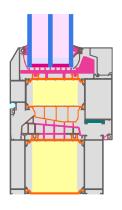
Certified Passive House Component Component-ID 2180wi03 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

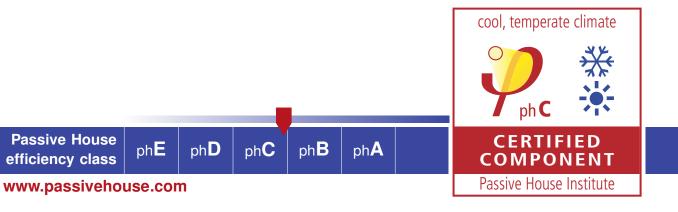


Category:	Window Frame		
Manufacturer:	Xi'an Shi Ruiyasi Door and Window		
	Technology Co., Ltd.,		
	Xi An,		
	China		
Product name:	Lingyu 105		

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

Comfort	$U_W = 0.76$ $U_{W,\text{installed}}$ with $U_g$	_	0.80 W/(m <sup>2</sup> K) 0.85 W/(m <sup>2</sup> K) 0.70 W/(m <sup>2</sup> K)	
Hygiene	f <sub>Rsi=0.25</sub>	$\geq$	0.70	





## Xi'an Shi Ruiyasi Door and Window Technology Co., Ltd.

No. 9 Xingang 8th Road, Northwest Furniture Industrial Park, Lantian County, 710500 Xi An, China ☎ +86 400 056 0336 | ⊠ 506004212@qq.com | <sup>™</sup> http://www.shiruiyasi.com |



#### Description

Aluminium frame with thermal separation (low lambda PA 0.21 W/(mK)) and insulation (Kooltherm 0.022 W/(mK) and EPDM foam 0.050 W/(mK)); Pane thickness: 51 mm (5/18/5/18/5); Rebate depth: 22 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/(m<sup>2</sup> K). If a higher quality glazing is used, the window U-values will improve as follows:

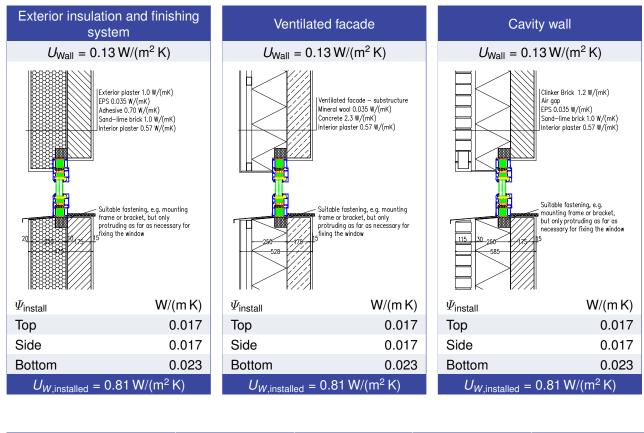
Glazing	$U_g =$	0.70	0.64	0.58	0.54	$W/(m^2 K)$
		$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	
Window	$U_W =$	0.76	0.72	0.69	0.67	W/(m <sup>2</sup> K)

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</i> f mm	<i>U</i> -value frame <i>U</i> f W/(m <sup>2</sup> K)	$arPsi$ -glazing edge $arPsi_g$ W/(mK)	Temp. Factor f <sub>Rsi=0.25</sub> [-]
Transom 1 casement	(1T1)	4	171	0.75	0.027	0.75
Bottom	(OB1)		163	0.70	0.026	0.77
Тор	(OH1)		163	0.70	0.026	0.77
Lateral	(OJ1)	<b>I</b> -	163	0.70	0.026	0.77
	Spacer: Technoform-Spacer SP16 Secondary seal: Silicone					ne

www.passivehouse.com