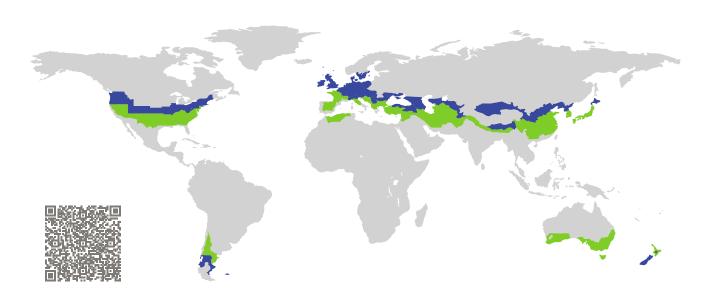
CERTIFICATE

Certified Passive House Component

Component-ID 1787wi03 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Window Frame

Manufacturer: Qingdao Longyuan Hing doors

Engineering Co., Ltd,

Qingdao, China

Product name: Longyuan Hing 105 serie

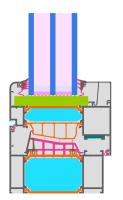
This certificate was awarded based on the following criteria for the cool, temperate climate zone

Comfort $U_W = 0.80 \le 0.80 \text{ W/(m}^2 \text{ K)}$

 $U_{W,\text{installed}} \leq 0.85 \,\text{W/(m}^2 \,\text{K)}$

with $U_g = 0.70 \,\mathrm{W/(m^2\,K)}$

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



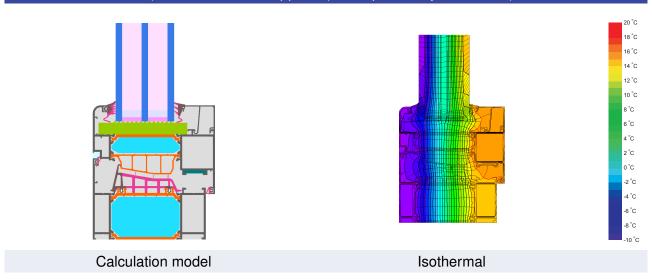


Qingdao Longyuan Hing doors Engineering Co., Ltd

No. 658, Jinhe Road, Guangcheng Industrial Park, Jiaonan City Tanzi New District, 266400 Qingdao, China

↑ +86132555555575 |

↑ 1124607737@qq.com |
↑ http://www.lymc88.com |



Description

Aluminium frame with thermal separation (low lambda PA 0.21 W/(mK)) and insulation (PU foam 0.028 W/(mK)); Pane thickness: 54 mm (6/18/6/18/6), rebate depth: 15 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 $U_g = 0.70$ W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

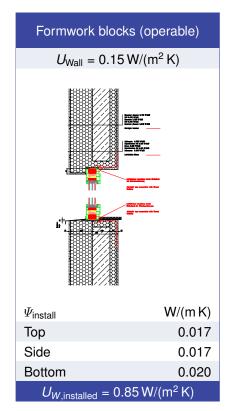
Glazing
$$U_g = \begin{bmatrix} 0.70 & 0.64 & 0.58 & 0.54 & W/(m^2 \text{ K}) \\ \downarrow & \downarrow & \downarrow & \downarrow \\ Window $U_W = \begin{bmatrix} 0.80 & 0.76 & 0.72 & 0.70 & W/(m^2 \text{ K}) \end{bmatrix}$$$

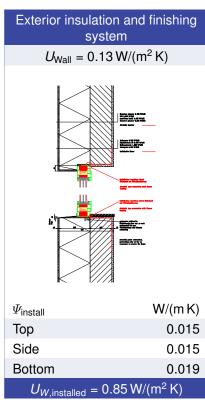
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

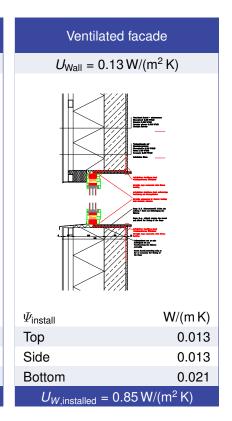
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense 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 values			Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U_f</i> W/(m² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion 1 casement	(1M1)	1	146	0.81	0.029	0.73
Bottom	(OB1)	4	124	0.80	0.029	0.75
Тор	(OH1)	f	124	0.80	0.029	0.75
Lateral	(OJ1)	!	124	0.80	0.029	0.75
Spacer: SWISSPACER ULTIMATE Secondary seal: Polysulfide						fide

