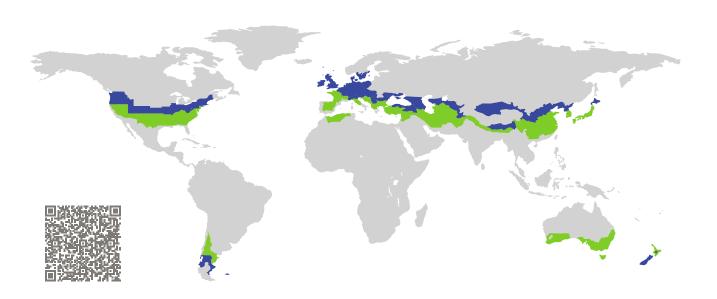
CERTIFICATE

Certified Passive House Component

Component-ID 2049wi03 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Window Frame

Manufacturer: **ZYF Lopsking Material Technology**

Co., Ltd., Suzhou, China

Product name: System LP105

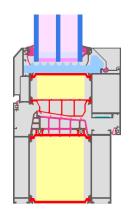
This certificate was awarded based on the following criteria for the cool, temperate climate zone

Comfort $U_W = 0.78 \le 0.80 \,\text{W/(m}^2 \,\text{K)}$

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

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

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



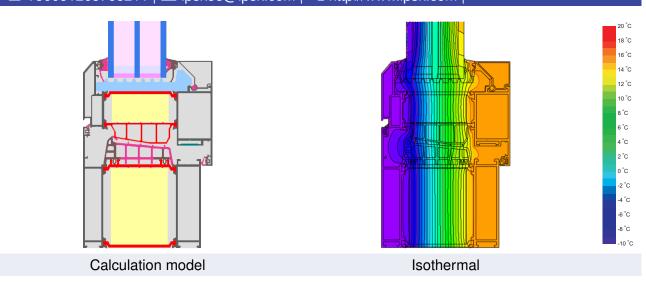


ZYF Lopsking Material Technology Co., Ltd.

No.2777, Taidong Road, Huangdai Town, Xiangcheng District, 215000 Suzhou, China

↑ +86051265768211 | | Ipsk88@lpsk.com |

↑ http://www.lpsk.com |



Description

Aluminum frame, thermally separated with PA66GF25 (0,30 W/(mK)) and insulated with PIR (Kingspan Kooltherm, 0,022 W/(mK)). Glazing: 51 mm (5/18/5/18/5); edge bond: Technoform-Spacer SP16 with polysulfide secondary seal.

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
$$U_g = \begin{bmatrix} 0.70 & 0.64 & 0.58 & 0.52 & W/(m^2 \, \text{K}) \\ \downarrow & \downarrow & \downarrow & \downarrow \\ Window $U_W = \begin{bmatrix} 0.78 & 0.75 & 0.71 & 0.68 & W/(m^2 \, \text{K}) \end{bmatrix}$$$

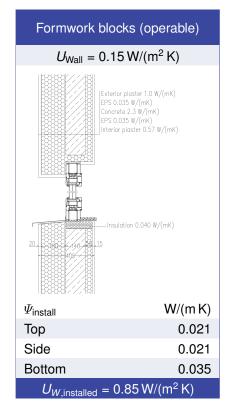
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

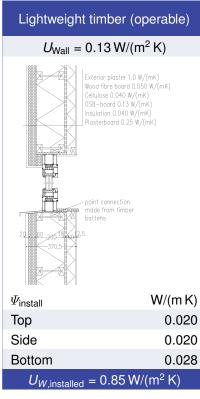
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense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

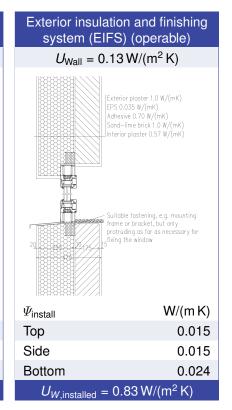
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

2/4 System LP105

Validated installations







Frame values	3		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} [-]
Flying Mul- lion	(FM1)	7	251	0.78	0.029	0.76
Bottom	(OB1)		165	0.74	0.029	0.76
Тор	(OH1)	f	165	0.74	0.029	0.76
Lateral	(OJ1)	1	165	0.74	0.029	0.76
Spacer: Technoform-Spacer SP16 Secondary seal: Polysulfide						ide

