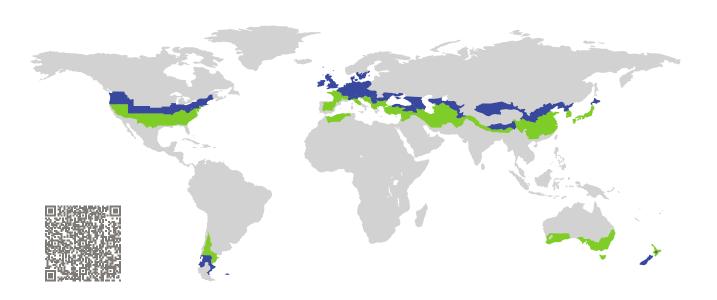
CERTIFICATE

Certified Passive House Component

Component-ID 1425wi03 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category: Window Frame

Manufacturer: Hebei Shenghe Window and Door

Technology Co., Ltd,

Shijiazhuang,

China

Product name: PH130 Passive Window

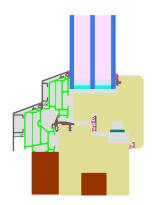
This certificate was awarded based on the following criteria for the cool, temperate climate zone

Comfort $U_W = 0.79 \le 0.80 \,\text{W/(m}^2 \,\text{K)}$

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

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

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

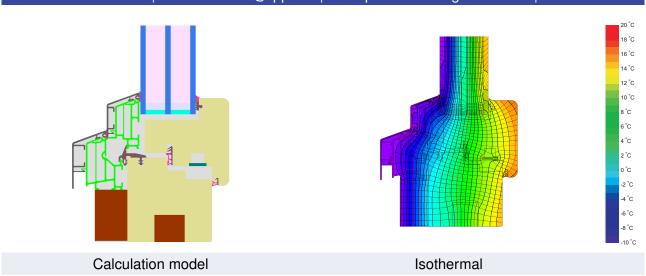




Hebei Shenghe Window and Door Technology Co., Ltd

26 JiChang Road, XinLe, 050700 Shijiazhuang, China

🕿 +86 31168127712 | 🖂 549182482@qq.com | 🕆 http://www.shenghechina.cn |



Description

Timber frame with insulation (EPS high density 0.048 W/(mK)) and external shell made of aluminium and PVC; Pane thickness: 51 mm (5/18/5/18/5), rebate depth: 15 mm. Spacer: SWISSPACER Ultimate with butyl as 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:

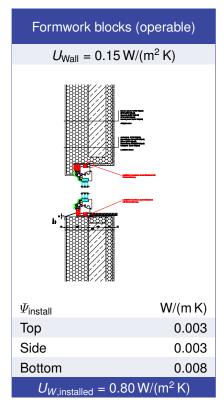
Glazing
$$U_g = 0.70$$
 0.64 0.58 0.54 W/(m² K)
 \downarrow \downarrow \downarrow \downarrow \downarrow Window $U_W = 0.79$ 0.75 0.71 0.68 W/(m² K)

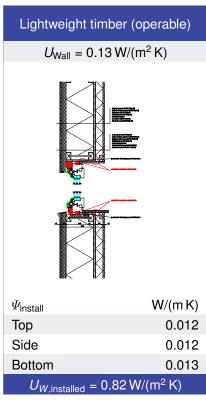
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

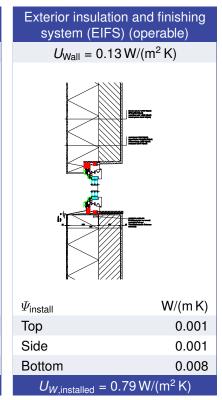
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense 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 values		Frame width b _f mm	U -value frame U_f W/(m ² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion 1 casement	(1M1)	153	0.87	0.025	0.74
Bottom	(OB1)	138	0.80	0.025	0.75
Тор	(OH1)	138	0.76	0.025	0.75
Lateral	(OJ1)	138	0.76	0.025	0.75
Spacer: SWISSPACER Ultimate Secondary seal: Butyl					

