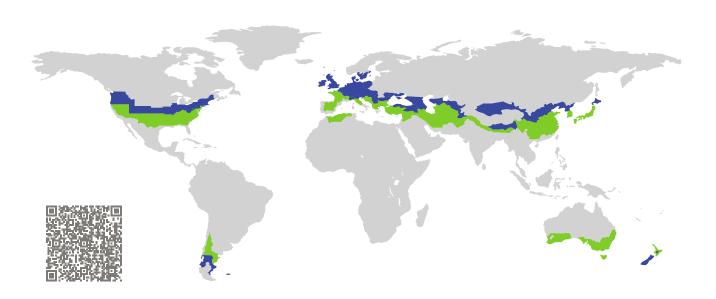
# CERTIFICATE

**Certified Passive House Component** 

Component-ID 2260wi03 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Window Frame

Manufacturer: GBD Shunda Moser Window Door

Co., Ltd, Gaobeidian,

China

Product name: PH120+ Passive Window

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

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

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

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

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



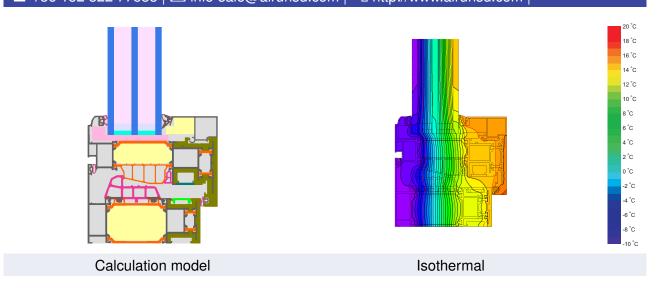


## **GBD Shunda Moser Window Door Co., Ltd**

South of Dongfang Road, East of 112 National Road, 074000 Gaobeidian, China 

↑ +86 152 322 77588 | ☑ info-sale@alrunsd.com | 

↑ http://www.alrunsd.com |



## **Description**

Aluminium frame with thermal separation (low lambda PA 0.21 W/(mK)) and insulation (Kooltherm 0.022 W/(mK), PU foam (0.04 W/(mK)); Part of the inner Aluminium profile is coated with PVC Microfoam (0,125 W/(mK)); Pane thickness: 50 mm (6/16/6/16/6); Rebate depth: 17 mm; Spacer: Swisspacer Ultimate; Secondary sealing: Butyl

## **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:

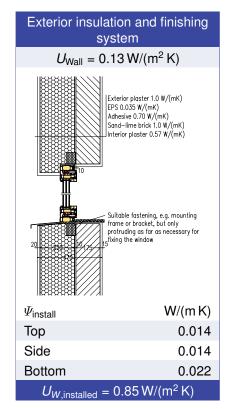
Glazing 
$$U_g = \begin{bmatrix} 0.70 & 0.64 & 0.58 & 0.54 & W/(m^2 \text{ K}) \\ \downarrow & \downarrow & \downarrow & \downarrow \\ Window  $U_W = \begin{bmatrix} 0.80 & 0.76 & 0.72 & 0.69 & W/(m^2 \text{ K}) \end{bmatrix}$$$

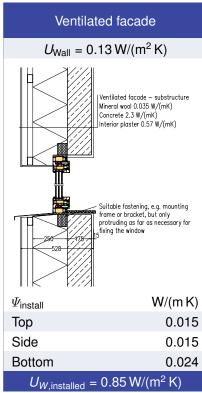
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

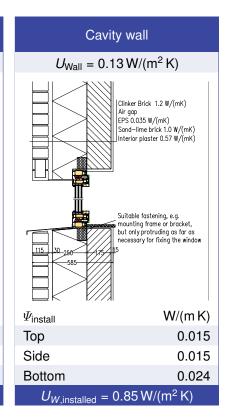
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense 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<sub>f</sub></i> mm	$U$ -value frame $U_f$ W/(m $^2$ K)	$\Psi$ -glazing edge $\Psi_g$ W/(m K)	Temp. Factor f <sub>Rsi=0.25</sub> [-]
Mullion 1 casement	(1M1)	142	0.85	0.027	0.76
Bottom	(OB1)	118	0.82	0.026	0.76
Тор	(OH1)	118	0.82	0.026	0.76
Lateral	(OJ1)	118	0.82	0.026	0.76
Spacer: SWISSPACER ULTIMATE Secondary seal: Butyl					

