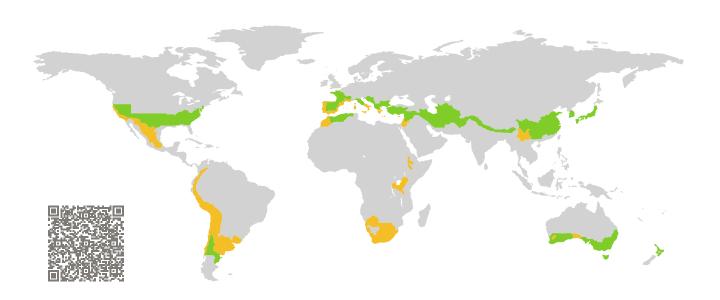
# **CERTIFICATE**

**Certified Passive House Component** 

Component-ID 2302wi04 valid until 31st December 2026

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category: Window Frame

Manufacturer: Shanghai Gaoxin Energy-Saving

Technology Co., Ltd,

Shanghai, China

Product name: PLANET 100 TT

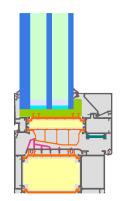
This certificate was awarded based on the following criteria for the warm, temperate climate zone

Comfort  $U_W = 0.95 \le 1.00 \text{ W/(m}^2 \text{ K)}$ 

 $U_{W, \text{installed}} \quad \leq \quad 1.05 \, \text{W/(m}^2 \, \text{K)}$ 

with  $U_g = 0.90 \,\mathrm{W/(m^2\,K)}$ 

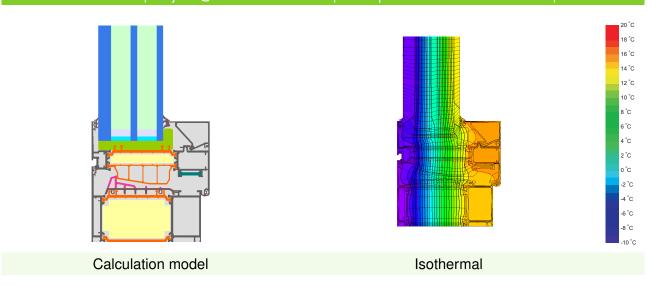
Hygiene  $f_{Rsi=0.25}$   $\geq$  0.65





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### **Description**

Aluminium frame with thermal separation (low lambda PA 0.21 W/(mK)) and insulation (Kooltherm 0.022 W/(mK), PE foam 0.038 W/(mK)); Pane thickness: 60 mm (6/18/6/18/12); Rebate depth: 18 mm; Spacer: Technoform-Spacer SP16; Secondary sealing: PU

#### **Explanation**

The window U-values were calculated for the test window size of 1.23 m  $\times$  1.48 m with  $U_g$  = 0.90 W/(m<sup>2</sup> K). If a higher quality glazing is used, the window U-values will improve as follows:

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.

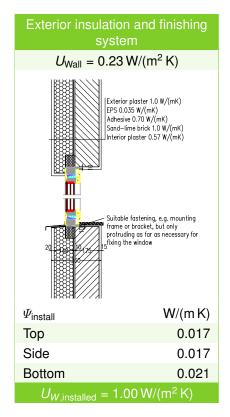
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense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

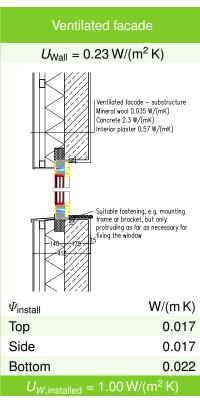
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

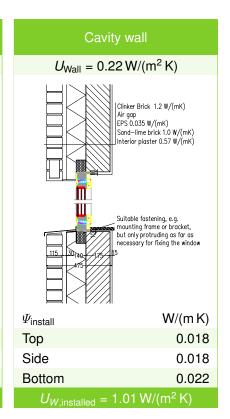
2/4 PLANET 100 TT

Frame value	s	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)	134	0.81	0.026	0.76	
Mullion 2 casements	(2M1)	175	0.90	0.025	0.76	
Bottom	(OB1)	112	0.86	0.025	0.76	
Head	(OH1)	112	0.86	0.025	0.76	
Jamb	(OJ1)	112	0.86	0.025	0.76	
	Spacer: Technoform-Spacer SP16			Secondary seal: Polyurethan		

#### Validated installations







Disclaimer: The Passive House Institute GmbH (PHI) conducts heat-transfer analyses in accordance with the standards set out in Criteria and Algorithms for Certified Passive House Components: Transparent Building Components and Opening Elements in the Building Envelope, based on information provided by the manufacturer. PHI does not verify on-site implementation. It is the responsibility of the project leader to ensure that installed components match the certified specifications in terms of geometry, configuration, and materials. Manufacturers must make full product information available upon request to parties involved in a construction project. These parties may compare the provided information with project documentation and perform on-site inspections as part of the quality-assurance process.

