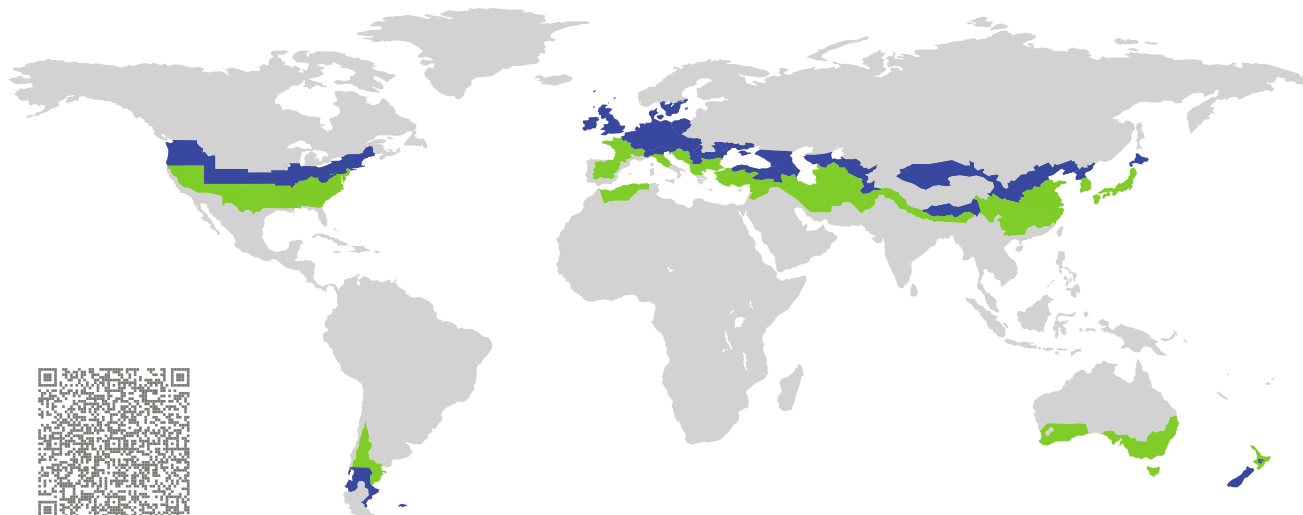


# CERTIFICATE

Certified Passive House Component

Component-ID 2351cw03 valid until 31st December 2025

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
Germany

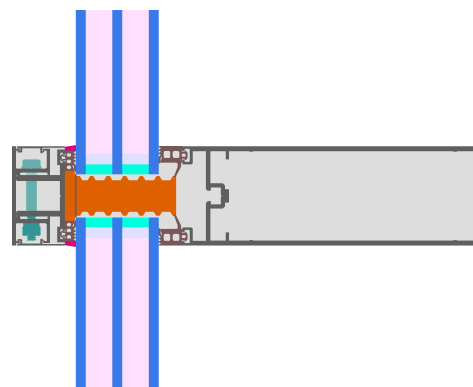


Category: **Curtain Wall**  
Manufacturer: **Beijing Jiamao Huasheng  
Technology Development Co.,  
BEIJING,  
China**  
Product name: **Jiamao Huasheng Passive House  
Curtain Wall System**

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

Comfort  $U_{CW=0.80} \leq 0.80 \text{ W}/(\text{m}^2 \text{ K})$   
 $U_{CW,installed} \leq 0.85 \text{ W}/(\text{m}^2 \text{ K})$   
with  $U_g = 0.70 \text{ W}/(\text{m}^2 \text{ K})$

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



Passive House  
efficiency class

phE

phD

phC

phB

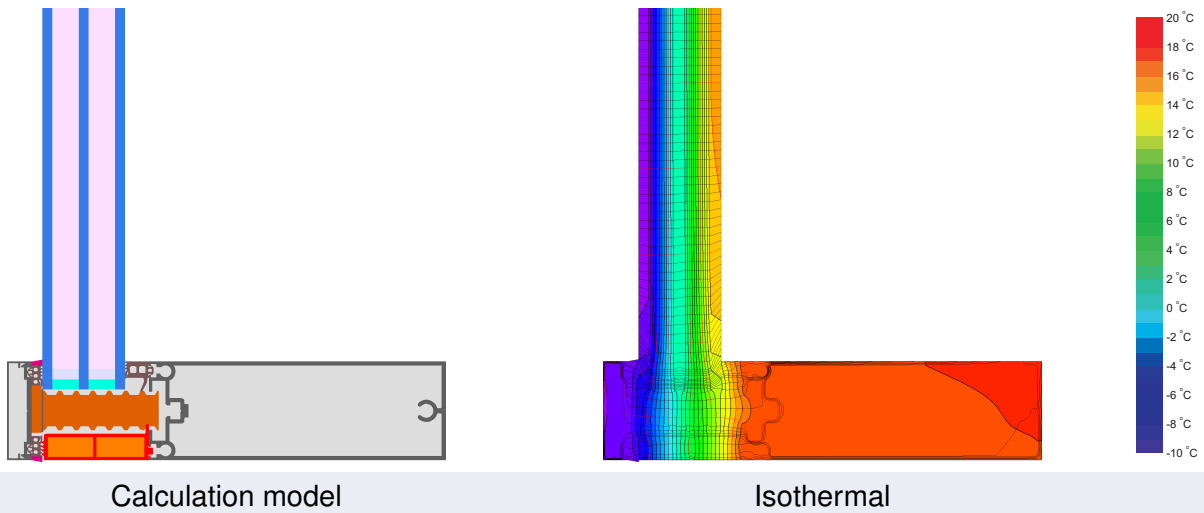
phA

cool, temperate climate



**CERTIFIED  
COMPONENT**

Passive House Institute



### Description

60mm wide aluminium curtain wall; Isolator made from PE-foam (0.05 W/(mK)); Plastic glass carrier fixed with metal screws; Aluminium pressure plate with aluminium capping. The latter is fixed to the pressure plate of the mullion using screws to enable attachment of shading elements. Pane thickness: 50 mm (6/16/6/16/6), rebate depth: 17 mm. Spacer: Technoform-Spacer SP16 with butyl as secondary seal.

### Explanation






The element U-values were calculated for the test element size of 1.20 m × 2.50 m with  $U_g = 0.70 \text{ W}/(\text{m}^2 \text{ K})$ . If a higher quality glazing is used, the element U-values will improve as follows:

Glazing	$U_g =$	0.70	0.68	0.56	0.52	W/(m <sup>2</sup> K)
		↓	↓	↓	↓	
Element	$U_{CW}$	0.80	0.78	0.67	0.63	W/(m <sup>2</sup> K)

Transparent building components are sorted 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 that have been certified for climate zones with higher thermal 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.

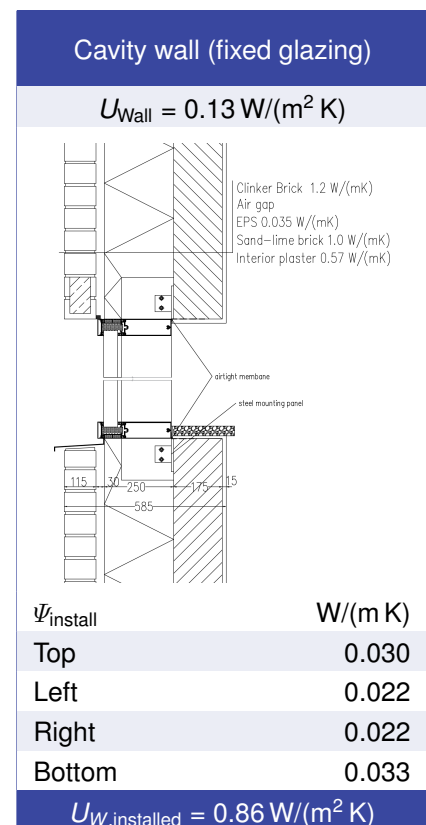
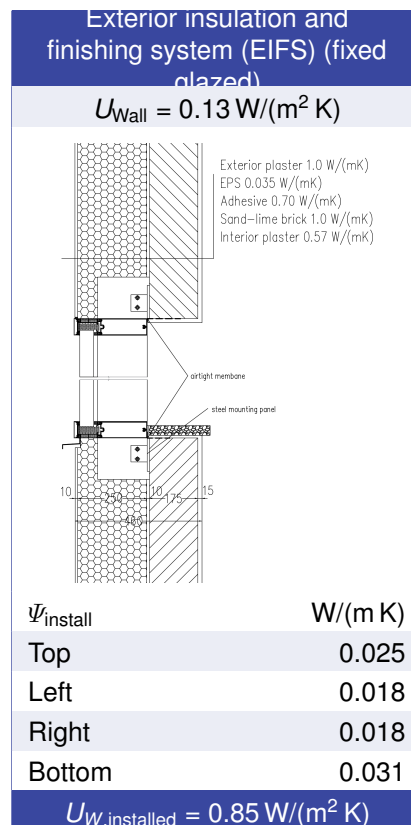
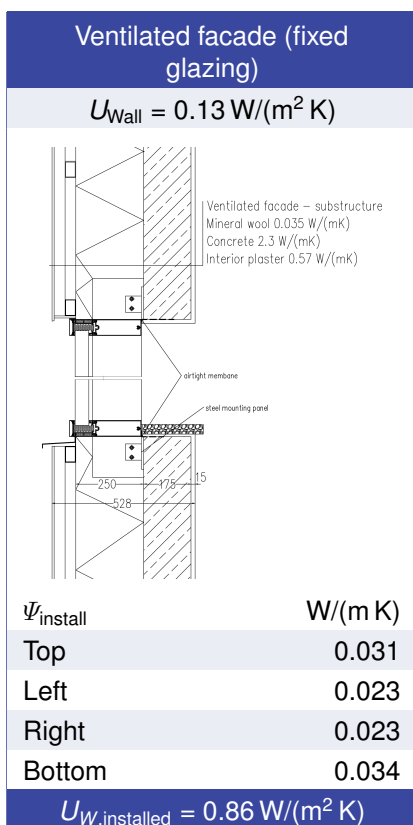
Further information relating to certification can be found on [www.passivehouse.com](http://www.passivehouse.com) and [passipedia.org](http://passipedia.org).

Frame values		Frame width $b_f$ mm	$U$ -value frame $U_f^1$ W/(m <sup>2</sup> K)	$\Psi$ -glazing edge $\Psi_g$ W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Mullion fixed	(OM1) 	60	0.93	0.035	0.77
Transom fixed	(OT1) 	60	0.93	0.034	0.77
Bottom fixed	(FB1) 	60	1.21	0.033	0.76
Top fixed	(FH1) 	60	1.15	0.033	0.77
Lateral fixed	(FJ1) 	60	1.15	0.033	0.76

Spacer: Technoform-Spacer SP16      Secondary seal: Butyl

Thermal glass carrier bridge<sup>2</sup>  $\chi_{GT} = 0.004$  W/K

### Validated installations



<sup>1</sup> Includes  $\Delta U = 0.30$  W/(m<sup>2</sup> K). Standard value

<sup>2</sup> Standard value. Glass carrier type: Non-metallic glass carrier with screws

