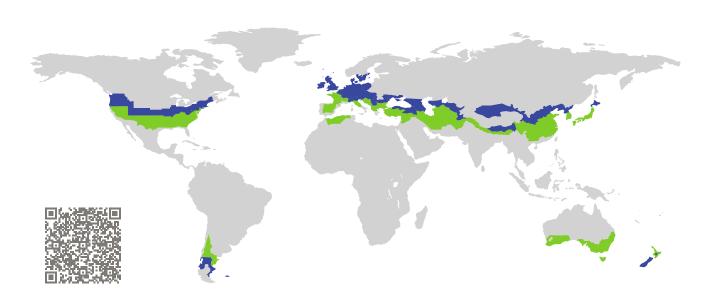
## CERTIFICATE

**Certified Passive House Component** 

Component-ID 1107wc03 valid until 31st December 2024

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Window connection

Manufacturer: Meesenburg Großhandel KG,

Flensburg, Germany

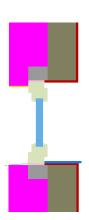
Product name: blaugelb Triotherm+ System

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

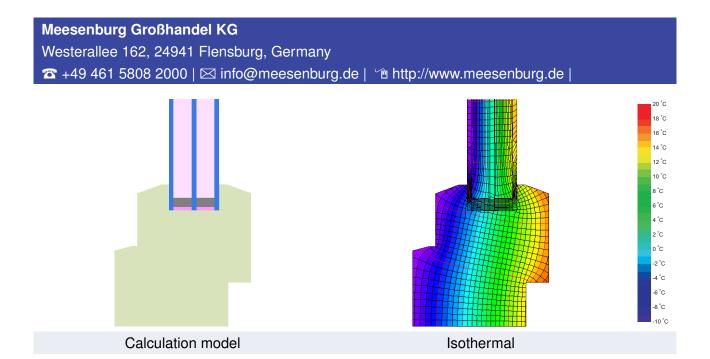
Comfort  $U_{W,\text{installed}} \leq 0.85 \, \text{W/(m}^2 \cdot \text{K)}$ 

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

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







## **Description**

Window Mounting System from dense EPS foam (0,0374 W/(mK)), system width120 mm. Assembly by glueing and screwing. Additional thermal losses by screws determined by 3D heat flux simulation. Losses are included in the conductivity of the EPS-foam (effective conductivity = 0.042 W/(mK)).

## **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:

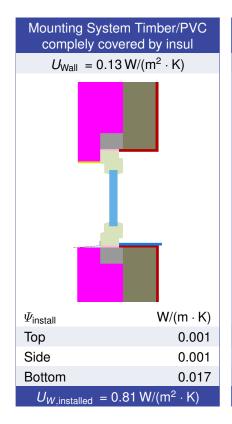
Glazing 
$$U_g = \begin{array}{cccccc} 0.70 & 0.65 & 0.60 & 0.55 & W/(m^2 \cdot K) \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ Window & U_W = \begin{array}{ccccc} 0.80 & 0.76 & 0.73 & 0.70 & W/(m^2 \cdot K) \end{array}$$

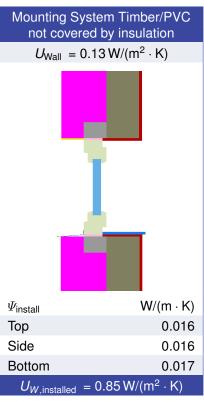
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

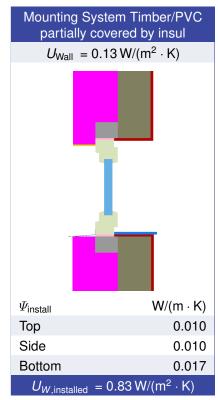
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense 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 valu	es		Frame width <i>b<sub>f</sub></i> mm	<i>U</i> -value frame <i>U<sub>f</sub></i> W/(m² ⋅ K)	$\Psi$ -glazing edge $\Psi_g$ W/(m $\cdot$ K)	Temp. Factor f <sub>Rsi=0.25</sub> [-]
Bottom	(OB1)	Ļ	125	0.73	0.036	0.70
Тор	(OH1)	F	125	0.73	0.036	0.70
Lateral	(OJ1)	11	125	0.73	0.036	0.70
		Spacer: PHI phB-Spacer		Secondary seal: Polysulfide		

