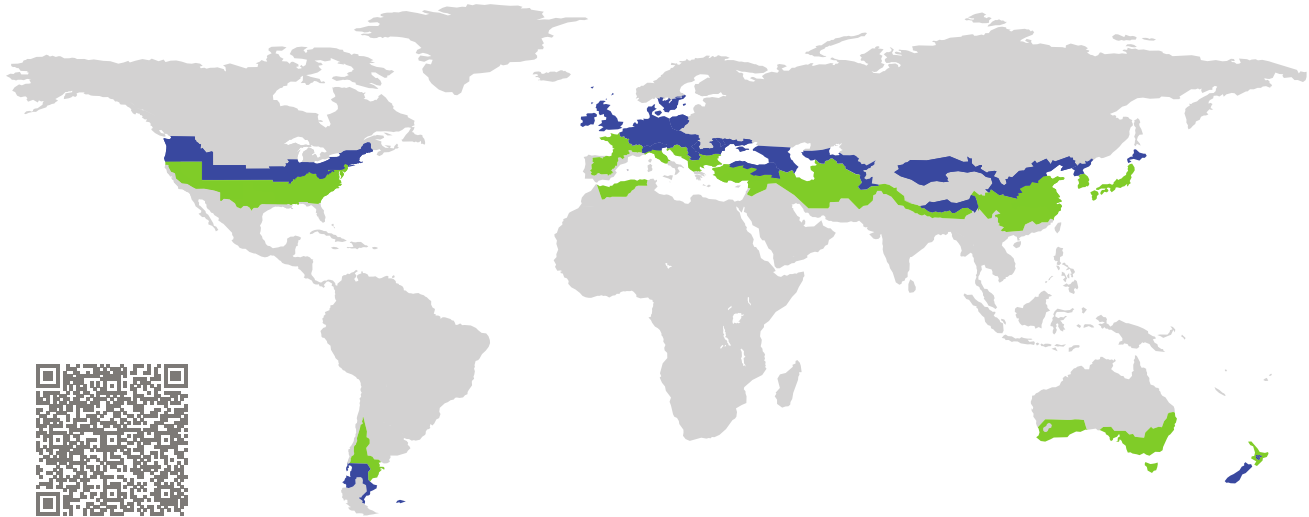


# CERTIFICATE

Certified Passive House Component

Component-ID 2259wm03 valid until 31st December 2025

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
Germany

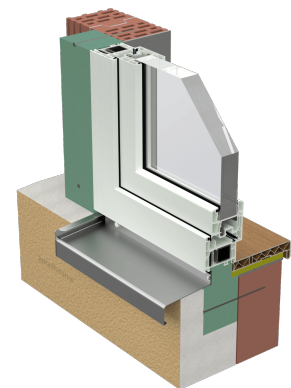


Category: **Window mounting system**  
Manufacturer: **PM Technic Elements,  
Cluj-Napoca,  
Romania**  
Product name: **TSV Thermo Green**

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

Efficiency  $\Delta U \leq 0.05 \text{ W}/(\text{m}^2 \cdot \text{K})$

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

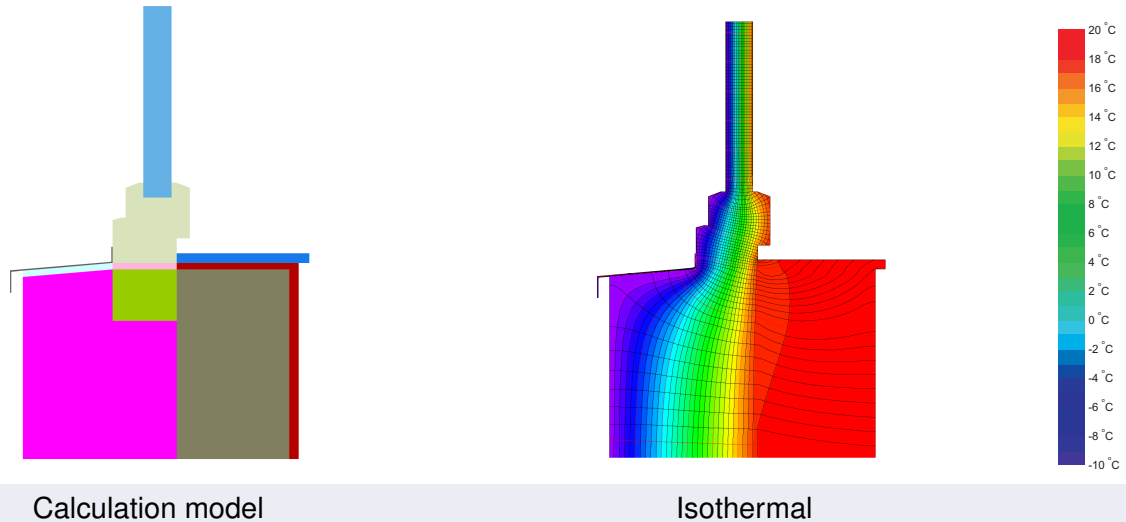


cool, temperate climate



**CERTIFIED  
COMPONENT**

Passive House Institute



## Description

Pre-wall mounting system from PET foam [0.040 W/(m.K)], 80 mm high. Assembly by gluing and screwing. A safety margin surcharge of 1,25 according to ISO 10077-2 is included in the thermal conductivity. Additional thermal losses by screws, determined by 3D heat flux simulation, are also included in the conductivity of the PET-foam. Effective thermal conductivity considering safety margin and influence of screws: 0.54975W/(m.K).

## Explanation

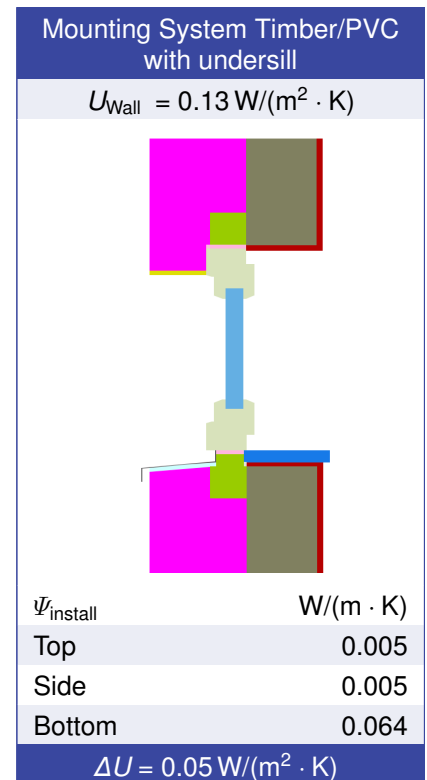
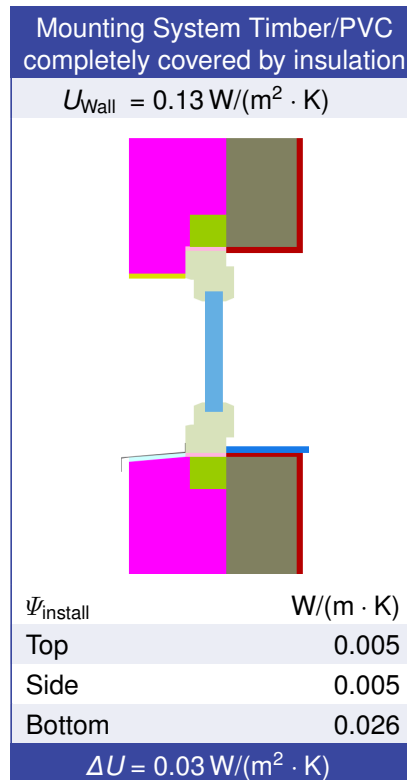
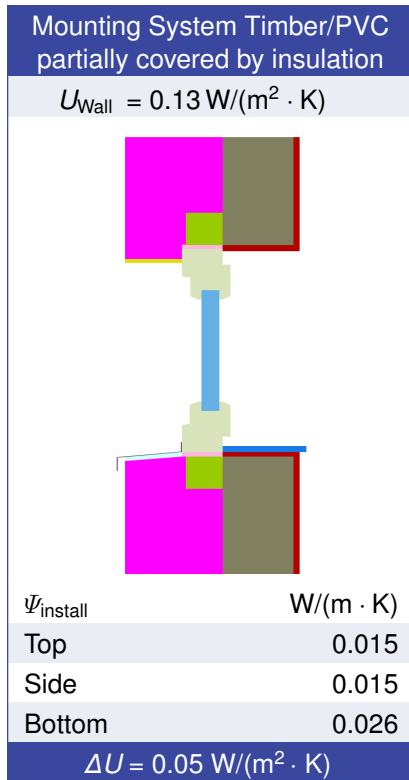
The certifiability is demonstrated by the increase of the heat transfer coefficient  $\Delta U$  [W/(m<sup>2</sup>.K)] caused by the installation thermal bridge (efficiency criterion) in conjunction with given installation situations and window frames as well as by the minimum temperature factor at the coldest point of the installation connection (hygiene criterion).

The heat transfer coefficients (U-values) and the thermal bridge loss coefficients ( $\psi$ -values) of the window are determined on the basis of DIN EN ISO 10077-2, the installation thermal bridges according to ISO 10211.

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](http://www.passivehouse.com) and [passipedia.org](http://passipedia.org).

## Validated installations



Frame values		Frame width $b_f$ mm	U-value frame $U_f$ W/(m <sup>2</sup> · K)	$\Psi$ -glazing edge $\Psi_g$ W/(m · K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Bottom	(OB1)	125	0.73	0.036	0.73
Top	(OH1)	125	0.73	0.036	0.73
Lateral	(OJ1)	125	0.73	0.036	0.73

Spacer: PHI pHB-Spacer      Secondary seal: Polysulfide

