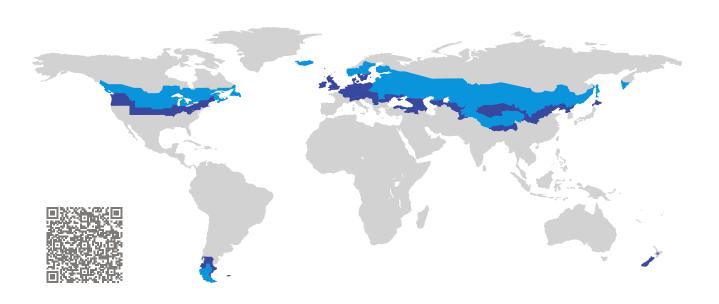
CERTIFICATE

Certified Passive House Component

Component-ID 2387wm02 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Window mounting system

Manufacturer: **UAB WARMOTECH,**

Kaunas, Lithuania

Product name: Warmotech PRO/PRO+

This certificate was awarded based on the following criteria for the cold climate zone

Efficiency $\Delta U \leq 0.05 \; W/(m^2 \cdot \, K)$

 $Hygiene \qquad f_{Rsi\,=\,0.25} \qquad \geq \qquad 0.75$





UAB WARMOTECH

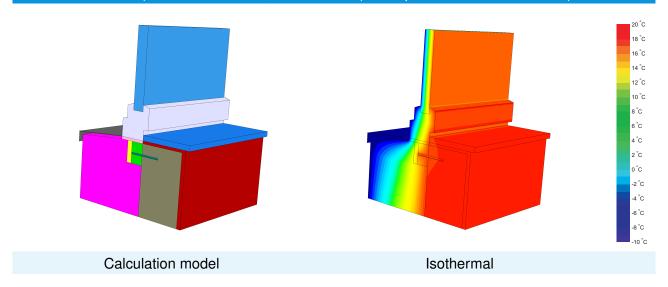
Elektrenu str. 16, LT-51205 Kaunas, Lithuania

↑ +37065660728 |

□ a.cesnavicius@warmotech.lt |

□ http://www.warmotech.com |

□ htt



Description

Pre-Wall Mounting System from rigid PU foam (0.088 W/(mK)) and XPS (0,035W/(m.K)), 80 mm high. Assembly by glueing and screwing. Additional thermal losses through screws determined by 3D heat flux simulation. Losses are included in the conductivity of the PU foam (0.095W/(m.K)).

Explanation

The certifiability is demonstrated by the increase of the heat transfer coefficient ΔU [W/(m² 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 (Ψ -values) of the window are determined on the basis of DIN EN ISO 10077-2, the installation thermal bridges according to ISO 10211.

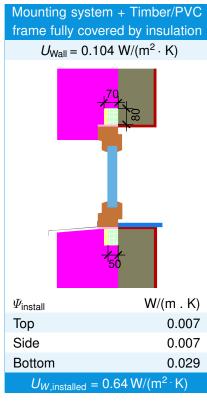
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense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

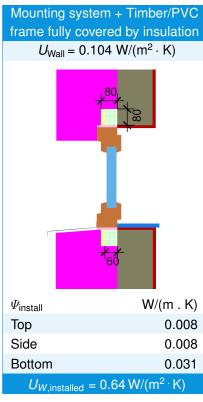
Further information relating to certification can be found on

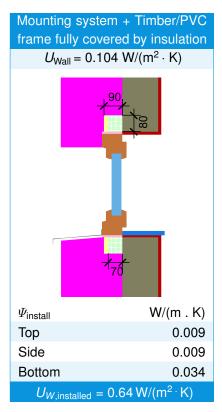
www.passivehouse.com and passipedia.org.

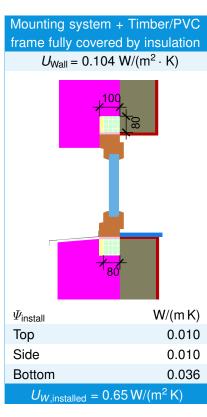
2/5 Warmotech PRO/PRO+

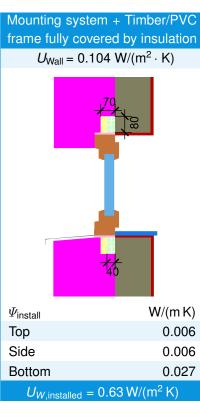
Validated installations

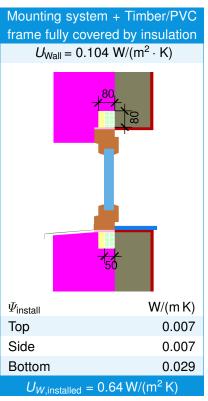




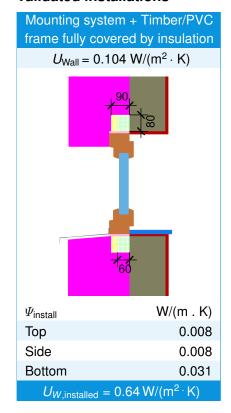


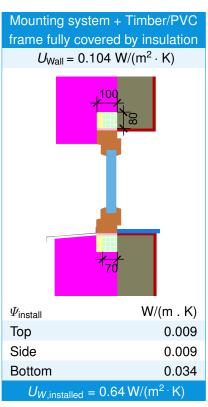






Validated installations





Timber/PVC Frame values		Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U_f</i> W/(m² ⋅ K)	Ψ -glazing edge Ψ_g W/(m \cdot K)	Temp. Factor $f_{Rsi=0.25}$ [-]	
Bottom	(OB1)	4	125	0.62	0.020	0.79
Тор	(OH1)	F	125	0.62	0.020	0.79
Lateral	(OJ1)	11	125	0.62	0.020	0.79
		Spacer: PHI phA Spacer		Secondary seal: Butyl		

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