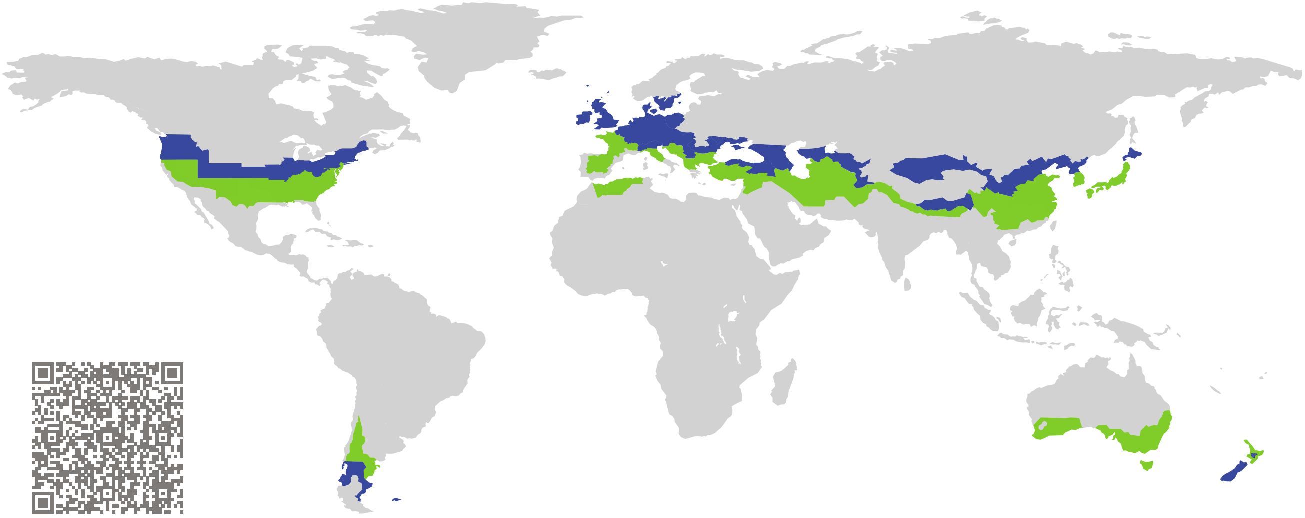
CERTIFICATE

Certified Passive House Component

Component-ID 1150wc03 valid until 31st December 2025

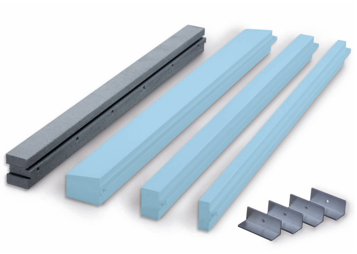
Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category:	**Window mounting system**
Manufacturer:	**ISO-Chemie GmbH,** **Aalen,** **Germany**
Product name:	**ISO TOP WINFRAMER ”TYP 3”**

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

Efficiency	ΔU	$\leq$	0.05 W/(m$^2 \cdot$ K)
Hygiene	$f_{Rsi = 0.25}$	$\geq$	0.70



cool, temperate climate

CERTIFIED COMPONENT

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Description

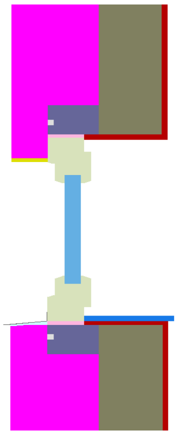
Pre-Wall Mounting System from dense EPS foam (0,041 W/(mK)), system width 80, 100, 120, 140, 160, 180 and 200 mm. Assembly by glueing and screwing. Additional thermal losses by screws determined by 3D heat flux simulation. Losses are included in the conductivity of the EPS-foam. For heavy loads, reinforced by Aluminum angles: X = 0,002 W/K @ 80 mm, 0,006 W/K @ 200 mm width. For widhts in between, please interpolate the values.

Explanation

The certifiability is demonstrated by the increase of the heat transfer coefficient ΔU [W/(m^2 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.

Validated installations

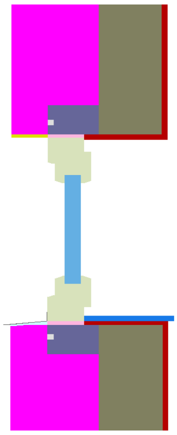
Mounting System Timber/PVC complely covered by insul



Ψ_{install}	W/(m K)
Top	0.002
Side	0.002
Bottom	0.016

$U_{W,\text{installed}}$ = 0.81 W/(m^2 K)

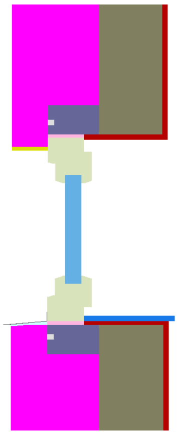
Mounting System Timber/PVC not covered by insulation



Ψ_{install}	W/(m K)
Top	0.015
Side	0.015
Bottom	0.016

$U_{W,\text{installed}}$ = 0.84 W/(m^2 K)

Mounting System Timber/PVC partially covered by insul



Ψ_{install}	W/(m K)
Top	0.009
Side	0.009
Bottom	0.016

$U_{W,\text{installed}}$ = 0.83 W/(m^2 K)

Timber/PVC Frame values		Frame width b_f mm	U-value frame U_f W/($m^2 \cdot$ K)	Ψ-glazing edge Ψ_g W/(m · K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Bottom	(OB1)	125	0.73	0.036	0.70
Top	(OH1)	125	0.73	0.036	0.70
Lateral	(OJ1)	125	0.73	0.036	0.70
		Spacer: PHI phB-Spacer		Secondary seal: Polysulfide	