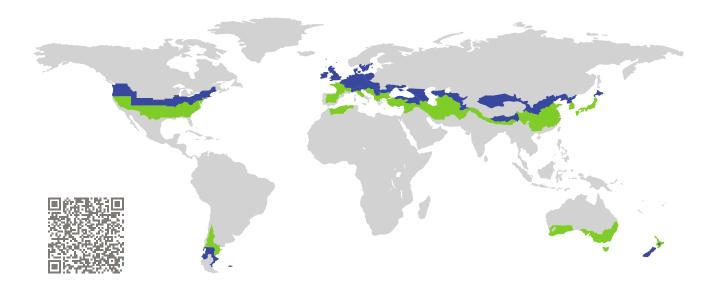
CERTIFICATE

Certified Passive House Component Component-ID 1655wi03 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



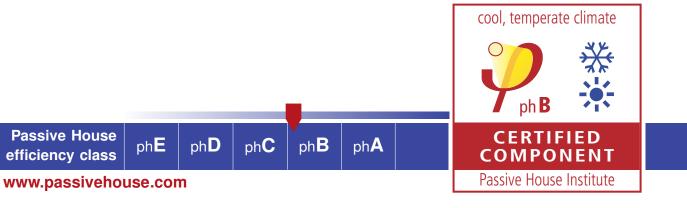
Category:	Window Frame
Manufacturer:	Rehau Industries SE & Co. KG,
	Erlangen,
	Germany
Product name:	GENEO PHZ

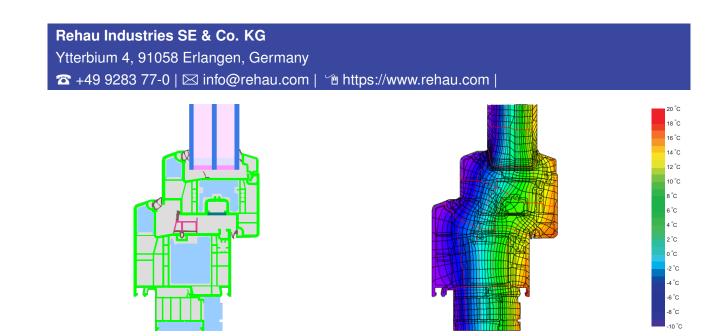
This certificate was awarded based on the following criteria for the cool, temperate climate zone

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

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







Description

Calculation model

PVC window frame with EPS insulation (0,031 W/(mK)); glazing thickness 44 mm (4/16/4/16/4); rebate depth 17 mm; edge bond: SWISSPACER Ultimate with polysulfide secondary seal. The maximum sizes for a D/DK sash (sash Z 57, not reinforced) are for white-coloured: W 1400 x H 1400 mm or: W 1000 x H 2300 mm For non-white-coloured (e.g. laminated): W 1300 x H 1300 mm or: W 900 x H 2200 mm

Isothermal

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/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

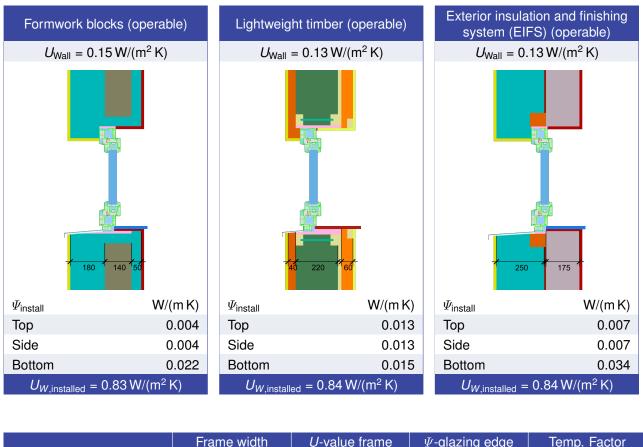
Glazing	$U_g =$	0.70	0.64	0.58	0.53	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	0.80	0.76	0.73	0.69	W/(m ² K)

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 values	5		Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U</i> f W/(m ² K)	$arPsi$ -glazing edge $arPsi_g$ W/(m K)	Temp. Factor <i>f_{Rsi=0.25}</i> [-]
Flying Mul- lion	(FM1)	1	142	0.82	0.028	0.72
Bottom	(OB1)	4	159	0.82	0.029	0.74
Тор	(OH1)	T	129	0.78	0.029	0.74
Lateral	(OJ1)	<u>11</u>	129	0.78	0.029	0.74
	Spac	cer: SWI	SSPACER ULTIMAT	E Sec	ondary seal: Polysulf	ide

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