CERTIFICATE

Certified Passive House Component Component-ID 0158cw03 valid until 31st December 2021 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category:	Curtain Wall
Manufacturer:	LAMILUX Heinrich Strunz GmbH, Rehau, Germany
Product name:	LAMILUX Glasdach PR60 Passivhaus (Fassade)

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

Comfort Hygiene	$U_{CW} = U_{CW,in}$ with $U_{CW,in}$ $f_{Rsi=0.23}$	stalled J _g	< < 	0.80 0.85 0.70	0 W/(m² 5 W/(m² 0 W/(m² 0	Κ) Κ) Κ)					
									cool,	temperate	e climate
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www.passivehouse.com								Passiv	/e House	Institute	

LAMILUX Heinrich Strunz GmbH Zehstraße 2, 95111 Rehau, Germany 🕿 +49 9283 595-0 | 🖂 information@lamilux.de | 🖆 http://www.lamilux.de | 20 °C 18 °C 16 °C 14 °C 12 °C 10 °C 3°C s°c 4 °C 2 °C 0°C -2 °C -4 °C -6 °C Calculation model Isothermal

Description

Aluminium construction, Aluminium pressure-strip. PE-foam insulator in the glazing rebate, plastic glass-carrier on stainless steel bolts. The losses by the screws werde determined by measurement (ift), the losses caused by the glass carrier by 3D-simulation (PHI). Used Pane: 52 mm (6/16/6/16/8), intersection of the Glass: 16 mm. Used spacer: SuperSp. TriSeal PU

Explanation

The element U-values were calculated for the test element size of 1.20 m \times 2.50 m with $U_g = 0.70$ W/(m² K). If a higher quality glazing is used, the element U-values will improve as follows:

Glazing	$U_g =$	0.70	0.69	0.58	0.53	$W/(m^2 K)$
		\downarrow	\downarrow	\downarrow	\downarrow	
Element	U _{CW}	0.79	0.79	0.68	0.64	W/(m ² K)

Transparent building components are sorted 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 that have been certified for climate zones with higher thermal 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.

Frame values			Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U</i> _f ¹ W/(m ² K)	Ψ -panel edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]		
Top _{fixed}	(tof)	T	60	0.85	0.033	0.79		
Side	(sf)	-	60	0.85	0.033	0.79		
Bottom	(bof)	1	60	0.85	0.033	0.79		
Mullion	(m)	-	60	0.85	0.033	0.79		
Transom	(tf)	+	60	0.85	0.033	0.79		
Spacer: Super Spacer TriSeal / T-Spacer Premium Secondary seal: Polyurethan								

Thermal glass carrier bridge 2 χ_{GT} = 0.010 W/K

Validated installations



¹Includes $\Delta U = 0.13 \text{ W/(m}^2 \text{ K})$. Determined through measurement

²Determined through 3D - FEM Simulation . Glass carrier type : Non-Metallic Glass Carrier with Screws

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