Certificate

Certified Passive House Component for cool, temperate climates; valid until 31.12.2025

Category:Openable element in glass roofManufacturer:LAMILUX Heinrich Strunz GmbH95111 Rehau, GERMANYProduct name:Lüftungsflügel PR60

This certificate was awarded based on the following criteria:

Given a Ug value of 0,720 W/(m²K) and a component size of 1.20 m by 2.50 m

$U_{OCW,i}$ = 0.89 W/(m²K) \leq 1.00 W/(m²K)

Taking into account the installation based thermal bridges and provided that the installation is, with regard to the thermal bridges, equal or better than shown in the data sheet, the roof window meets the following criterion.

U_{OCW,i,installed} ≤ 1.00 W/(m²K)

Thermal data

	U _f -value	Width	Ψ _g	f _{Rsi=0.25}
	[W/(m²K)]	[mm]	[W/(mK)]	[-]
Spacer			SuperSpac	er Tri-Seal*
Bottom	1,15	96	0,035	0.79
Side/top	1,15	96	0,035	0,70

*Spacers of lower thermal quality, especially those made of aluminium, lead to significantly higher thermal losses and lower temperature factors.

For further information, please see the data sheet

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY





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Data Sheet LAMILUX Heinrich Strunz GmbH, Lüftungsflügel PR60

Manufacturer LAMILUX Heinrich Strunz GmbH Zehstraße 2, 95111 Rehau, GERMANY Tel.: +49 9283 595 0 Email: information@lamilux.de, www.lamilux.de



Description

Aluminium roof-window, thermal seperation of the facing-shells, phenolic-foam-insulation (0.022 W/(mK)) inside the frame, polyethylene-foam (0.038 W/(mK)) inside the rebate, element of a glass-roof-system. Pane thickness: 52 mm (6/16/6/16/8), rebate depth: 16 mm, spacer: SuperSpacer Tri-Seal

Thermal properties

	U _f -value	Width	Ψ_{g}	f _{Rsi=0.25}
	[W/(m²K)]	[mm]	[W/(mK)]	[-]
Spacer			SuperSpacer Tri-Seal*	
Bottom	1,15	96	0,035	0.79
Side/Top	1,15	96	0,035	0,70

* Spacers of lower thermal quality lead to higher thermal losses and lower glass edge temperatures.

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Installation



Installation based thermal bridge $\Psi_{\text{instal.}}$ in Passive House suitable facades

Position		Curtain wall installation
Bottom/Top	[W/(mK)]	-0,011
Side	[W/(mK)]	-0,011
U _{OCW,,i,instal.}	[W/(m²K)]	0,87

Explanatory notes

The element U-values were calculated based on a 1.20 m by 2.50 m element $U_g = 0.72 \text{ W/(m^2K)}$. If better glazing is used, the opening U-values decrease as follows:

U Glazing	U g [W/(m²K)]	0,64	0,58	0,52
U-Value	U _{ocw,i} [W/(m²K)]	0,83	0,79	0,74

Depending on the thermal losses through opaque elements, transparent components are categorised according to efficency classes. These thermal losses include the losses through the frame, the frame width, the thermal bridge at the glass edge as well as the length of the glass edge. Certificates for arctic regions are too valid vor cold, certificates for cold regions are too valid for cool, temperate zones.

Please ask the manufacturer for a detailed report containing all calculations and results.

For further information, please visit www.passivehouse.com or www.passipedia.org.

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