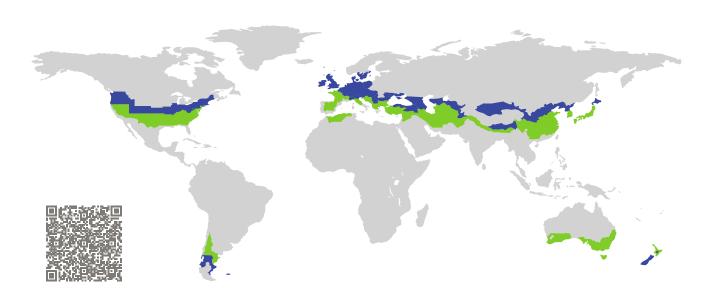
CERTIFICATE

Certified Passive House Component

Component-ID 1807ic03 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Glass roof

Manufacturer: INDU LIGHT Produktion & Vertrieb

GmbH,

Halle/Saale, Sachsen-Anhalt,

Germany

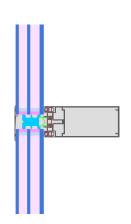
Product name: Glasline 60 PH

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

Comfort $U_{CW,i}$ = 0.93 \leq 1.00 W/(m² K)

 $U_{CW,i,installed} \leq 1.00 \text{ W/(m}^2 \text{ K)}$ with $U_q = 0.82 \text{ W/(m}^2 \text{ K)}$

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





Description

Aluminium glazed roof with XPS insulation and stainless steel glass bearings. Screw and glass bearing losses were determined by 3D thermal flux analysis (PHI). Glazing: 6/16/6/18/8 mm with LSG to the interior. Edge bond: MULTITECH G with polysulfide secondary seal.

Explanation

The element U-values were calculated for the test element size of $1.20 \,\mathrm{m} \times 2.50 \,\mathrm{m}$ with $U_g = 0.82 \,\mathrm{W/(m^2 \, K)}$. If a higher quality glazing is used, the element U-values will improve as follows:

Glazing
$$U_g = \begin{array}{cccccc} 0.82 & 0.70 & 0.64 & 0.58 & \text{W/(m}^2 \, \text{K)} \\ & \downarrow & & \downarrow & & \downarrow \\ & \text{Element} & U_{GW,i} & 0.93 & 0.82 & 0.76 & 0.71 & \text{W/(m}^2 \, \text{K)} \end{array}$$

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.

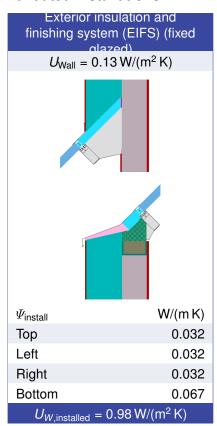
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

2/4 Glasline 60 PH

Frame values			Frame width <i>b_f</i> mm	U -value frame U_f^{-1} W/(m 2 K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion fixed	(0M1)	-	60	0.84	0.043	0.74
Transom fixed	(0T1)	•	60	0.86	0.046	0.74
Bottom fixed	(FB1)		60	0.88	0.046	0.74
Top fixed	(FH1)	T	60	0.88	0.046	0.74
Lateral fixed	(FJ1)		60	0.86	0.043	0.74
		Spacer:	MULTITECH G	Secondary seal: Polysulfide		

Thermal glass carrier bridge² $X_{GT} = 0.006 \, W/K$

Validated installations



 $^{^{1}}$ Includes $\Delta U = 0.23 \text{ W/(m}^{2} \text{ K)}$. Determined through 3D FEM simulation

²Determined through 3D FEM simulation. Glass carrier type: Stainless steel

