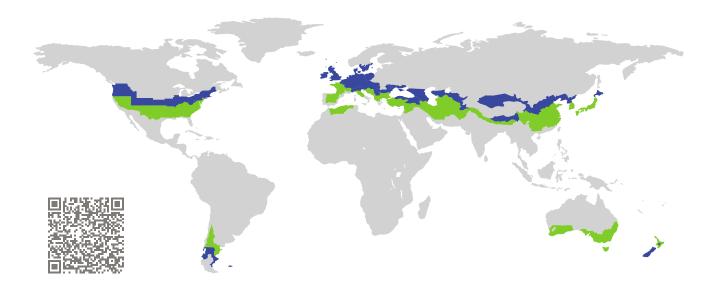
CERTIFICATE

Certified Passive House Component

Component-ID 1578ic03 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

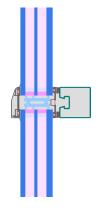


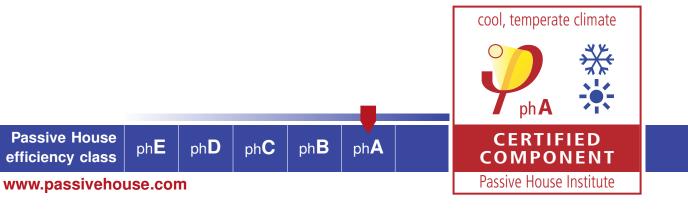
Category:	Glass roof
Manufacturer:	Jansen AG,
	Oberriet SG,
	Switzerland
Product name:	VISS HI (50 mm)

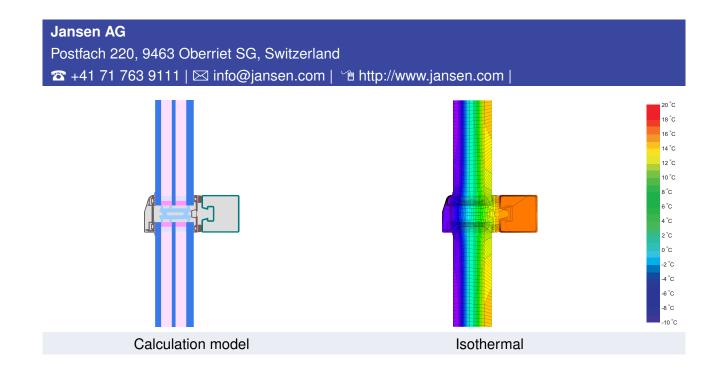
This certificate was awarded based on the following criteria for the cool, temperate climate zone

Comfort	$U_{CW,i} = 0.93$	\leq	1.00 W/(m ² K)
	$U_{CW,i,installed}$	\leq	1.00 W/(m ² K)
	with U_g	=	0.80 W/(m ² K)

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







Description

Steel glazed roof with PE isolator (0,038 W/(mK)); aluminium pressure plate and exterior capping. Plastic glass carrier on stainless steel bolts. Thermally insulated screws. Losses by screws and glass carrier were determined by 3d-thermal flux analysis (PHI). Glazing: 10/14/5/14/8 mm, with one pane of laminated safety glass to the interior. Edge bond: SWISSPACER Ultimate with polysulfide secondary seal.

Explanation

The element U-values were calculated for the test element size of $1.20 \text{ m} \times 2.50 \text{ m}$ with $U_g = 0.80 \text{ W/(m}^2 \text{ K})$. If a higher quality glazing is used, the element U-values will improve as follows:

Glazing	$U_g =$	0.80	0.70	0.69	0.58	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Element	U _{CW,i}	0.93	0.84	0.83	0.72	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.

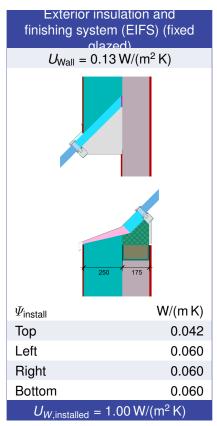
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components that have been certified for climate zones with higher thermal requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make 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 value	es	Frame width <i>b</i> f mm	U-value frame U _f ¹ W/(m ² K)	$arPsi$ -glazing edge $arPsi_g$ W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion fixed	(0M1) —	- 50	0.78	0.052	0.74
Transom fixed	(0T1)	50	0.78	0.052	0.73
Bottom fixed	(FB1)	50	0.80	0.051	0.73
Top fixed	(FH1)	50	0.80	0.051	0.73
Lateral fixed	(FJ1)	50	0.80	0.051	0.74
	Spacer:	SWISSPACER ULTIMAT	TE Sec	ondary seal: Polysulf	ide

Thermal glass carrier bridge² χ_{GT} = 0.008 W/K

Validated installations



¹Includes $\Delta U = 0.12 \text{ W/(m}^2 \text{ K})$. Determined through 3D FEM simulation ²Determined through 3D FEM simulation. Glass carrier type: Non-metallic glass carrier with screws

www.passivehouse.com