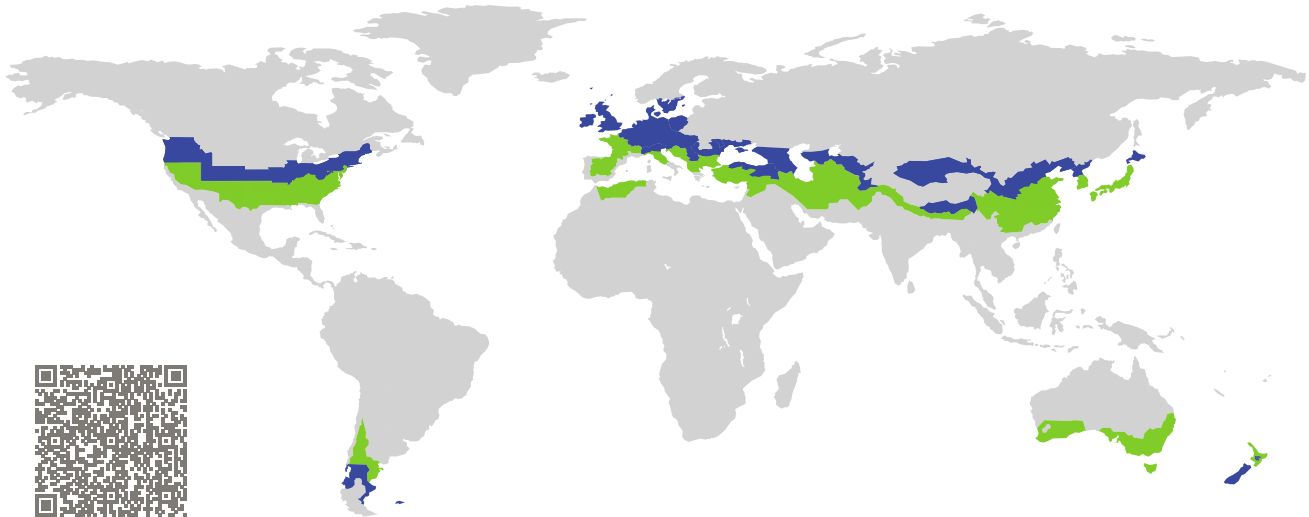


# CERTIFICATE

Certified Passive House Component

Component-ID 2058sk03 valid until 31st December 2025

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
Germany



Category: **Skylight**  
Manufacturer: **LAMILUX Heinrich Strunz GmbH,  
Rehau,  
Germany**  
Product name: **LAMILUX Flachdach Fenster FE  
Passivhaus NRW**

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

Comfort  $U_{SK=0.85} \leq 1.10 \text{ W}/(\text{m}^2 \text{ K})$   
 $U_{SK,installed} \leq 1.10 \text{ W}/(\text{m}^2 \text{ K})$   
with  $U_g = 0.56 \text{ W}/(\text{m}^2 \text{ K})$

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



cool, temperate climate



**CERTIFIED  
COMPONENT**

Passive House Institute

Passive House  
efficiency class

phE

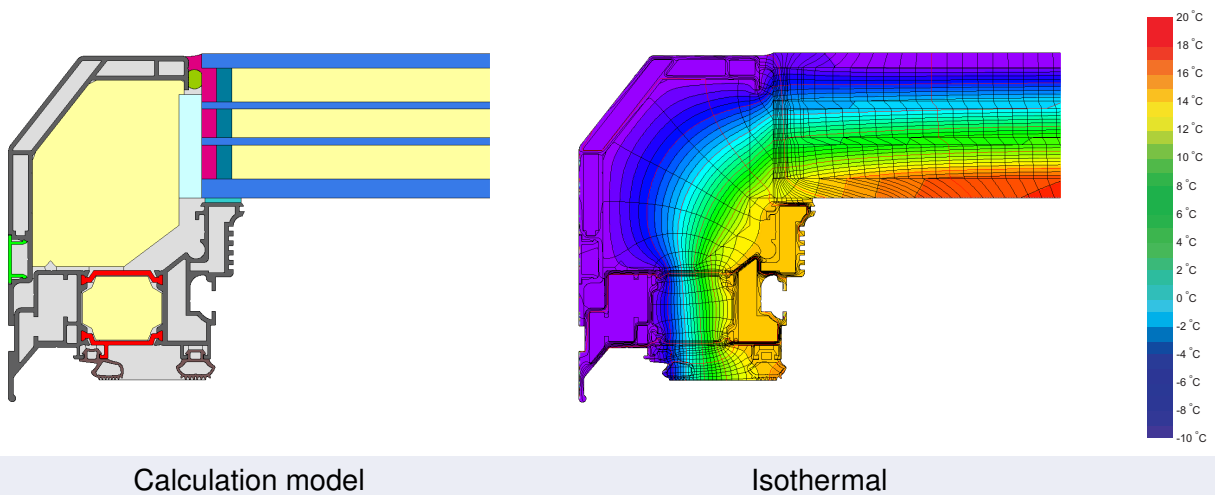
phD

phC

phB

phA

[www.passivehouse.com](http://www.passivehouse.com)



Calculation model Isothermal

**Description**

Flat-roof window of aluminium with thermal separation of polyamid with 25 % glass-fibre fraction. Resole-foam inside the frame and curb, encasing insulation at the base. Pane thickness: 60 mm (6/14/3/13/3/138), rebate depth: 17 mm. Spacer: Multitech G. Secondary seal: Silicone (6 mm)

**Explanation**




The window U-values were calculated for the test window size of 1.50 m × 1.50 m with  $U_g = 0.56 \text{ W}/(\text{m}^2 \text{ K})$ . If a higher quality glazing is used, the window U-values will improve as follows:

Glazing	$U_g =$	0.56	0.70	0.63	0.77	$\text{W}/(\text{m}^2 \text{ K})$
		↓	↓	↓	↓	
Window	$U_W =$	0.85	0.95	0.90	1.00	$\text{W}/(\text{m}^2 \text{ K})$

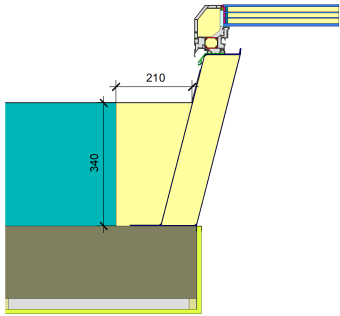
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations performed in the context of certification is available from the manufacturer.

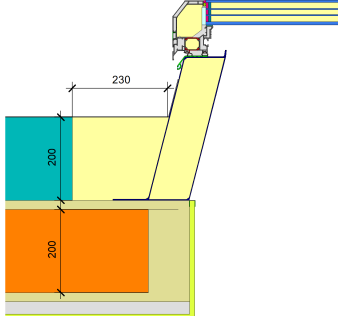
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense 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](http://www.passivehouse.com) and [passipedia.org](http://passipedia.org).

Frame values		Frame width $b_f$ mm	$U$ -value frame $U_f$ W/(m <sup>2</sup> K)	$\Psi$ -glazing edge $\Psi_g$ W/(m K)	Temp. Factor $f_{RSi=0.25}$ [-]
Bottom	(OB1) 	98	1.36	0.039	0.74
Top	(OH1) 	98	1.36	0.039	0.74
Lateral	(OJ1) 	98	1.36	0.039	0.74
Spacer: MULTITECH G			Secondary seal: Silicone		

### Validated installations

Concrete roof	
$U_{Wall} = 0.10 \text{ W/(m}^2 \text{ K)}$	
	
$\Psi_{install}$	W/(m K)
Top	0.060
Left	0.060
Right	0.060
Bottom	0.060
$U_{W,installed} = 1.01 \text{ W/(m}^2 \text{ K)}$	

Lightweight roof	
$U_{Wall} = 0.09 \text{ W/(m}^2 \text{ K)}$	
	
$\Psi_{install}$	W/(m K)
Top	0.063
Left	0.063
Right	0.063
Bottom	0.063
$U_{W,installed} = 1.01 \text{ W/(m}^2 \text{ K)}$	

