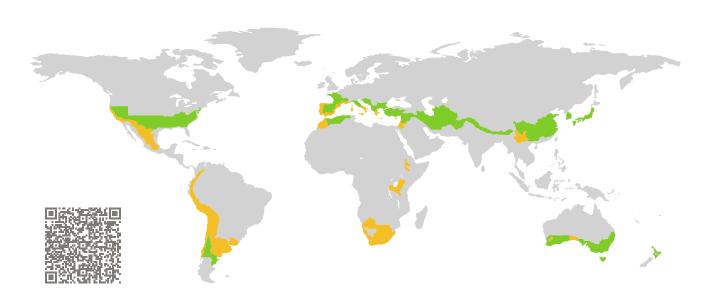
CERTIFICATE

Certified Passive House Component

Component-ID 2119wi04 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category: Window Frame

Manufacturer: Adopen Plastik ve İnşaat San.A.Ş,

Döşemealtı/Antalya,

Turkey

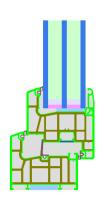
Product name: Penwood 883

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

 $Comfort \quad \textit{U}_{\textit{W}}\text{= }1.00 \quad \leq \quad 1.00 \, \text{W/(m}^2 \, \text{K)}$

 $U_{W,\text{installed}} \leq 1.05 \text{ W/(m}^2 \text{ K)}$ with $U_g = 0.90 \text{ W/(m}^2 \text{ K)}$

Hygiene $f_{Rsi=0.25}$ \geq 0.65

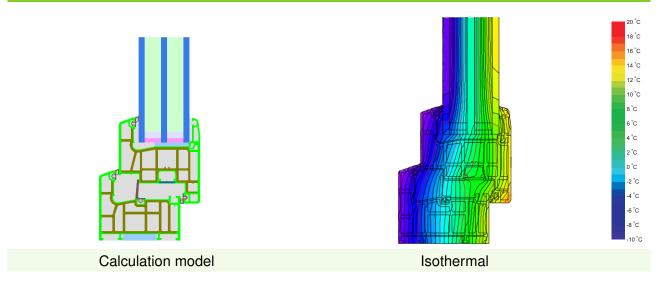




Adopen Plastik ve İnşaat San.A.Ş

Organize Snayi Bölgesi 2. Kısım Mah.21 : cad. No:3, None Döşemealtı/Antalya, Turkey

↑ +9 0 242 236 20 00 | ☑ alim.dongel@adopen.com.tr | ↑ https://www.adopen.com.tr |



Description

PVC frame with plastic composite (PVC + wood dust, 0,22 W/(mK)), insulated with PE-foam (0,037 W/(mK)), Glazing 4/18/4/18/4. Spacer: Swisspacer Ultimate with polysulfide secondary seal. Maximum size: 1.4m x 1.8m. There are no colour restrictions.

Explanation

The window U-values were calculated for the test window size of 1.23 m \times 1.48 m with U_g = 0.90 W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

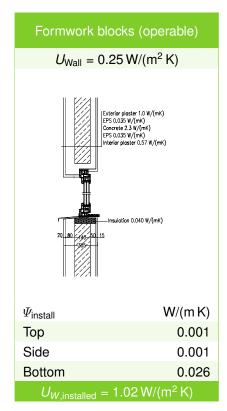
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

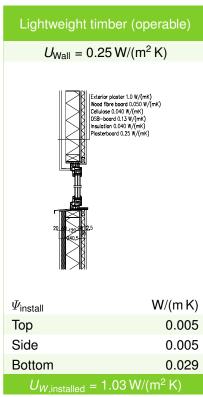
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense to use a component of a higher thermal quality which has been certified for a climate zone with more stringent requirements.

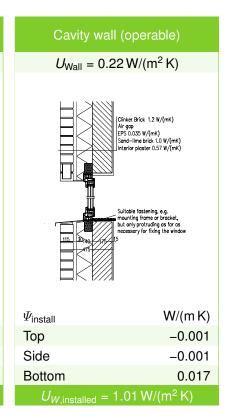
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

2/4 Penwood 883

Validated installations







| Frame value | es | | Frame width <i>b_f</i> mm | U -value frame U_f W/(m ² K) | Ψ -glazing edge Ψ_g W/(m K) | Temp. Factor $f_{Rsi=0.25}$ [-] |
|-----------------------|-------|---------|---|---|---------------------------------------|---------------------------------|
| Mullion 1 casement | (1M1) | 1 | 146 | 0.94 | 0.029 | 0.71 |
| Bottom | (OB1) | | 121 | 0.99 | 0.030 | 0.72 |
| Тор | (OH1) | f | 121 | 0.99 | 0.030 | 0.72 |
| Lateral | (OJ1) | or: SWI | 121 SSPACER ULTIMAT | 0.99 | 0.030 ondary seal: Polysulf | 0.72 |

