

Certificate

Certified Passive House component

For cool temperate climates, valid until 31 December 2017

Category: **Entry door with glazing**
Manufacturer: **pro Passivhausfenster GmbH**
83080 Oberaudorf, Germany

Product: **smartwin entrance**

This certificate was awarded based on the following criteria:

Heat losses through the installed entry door:

U-value of the installed door (1.10 m wide by 2.20 m tall):

$$U_{D,installed} = 0.73 \text{ W/(m}^2\text{K)} \leq 0.80 \text{ W/(m}^2\text{K)}$$

Provided that the installation is carried out according to the certification report, available from the manufacturer.

U-value before installation: $U_D = 0.67 \text{ W/(m}^2\text{K)}$.

The U-values were calculated based on **glazing with $U_g = 0.54 \text{ W/(m}^2\text{K)}$** in accordance with EN 673 and the spacer "Swisspacer V". The glass pane should have a maximum area of 1.534 m² (79.8 x 192.2 cm) or a maximum circumference of 5.44 m (79.8 x 192.2 cm).

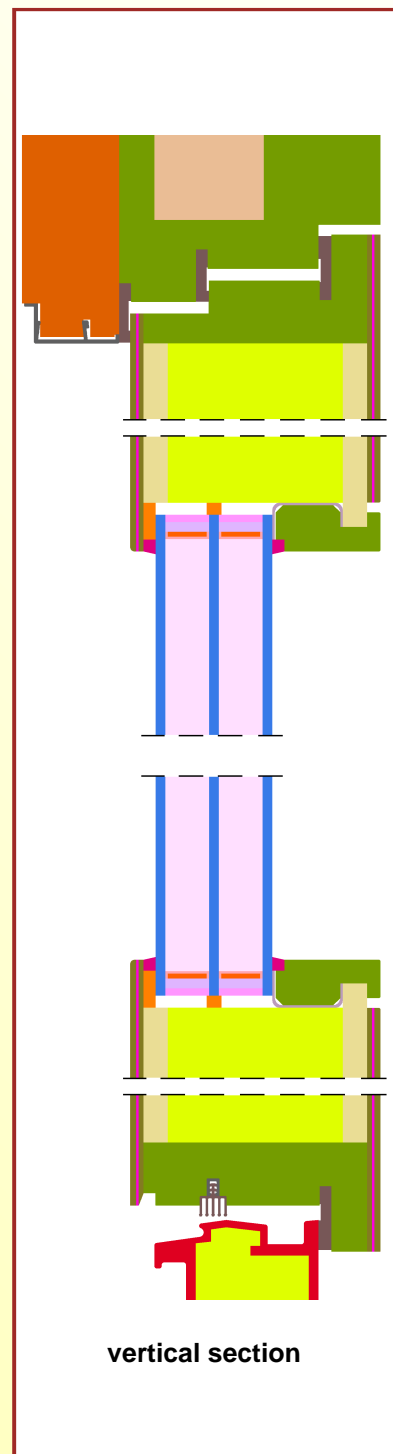
Airtightness:

Airtightness class 3 according to EN 12207.

The airtightness criterion has been fulfilled.

The airtightness test according to EN 1026 was carried out taking into account a maximal deformation of the door leaf, as per EN 1121.

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



U-value entry door including the above mentioned glazing with $U_g = 0.54 \text{ W/(m}^2\text{K)}$	$U_D = 0.67 \text{ W/(m}^2\text{K)}$
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For further information, please see data sheet.

