

Certificate

Certified Passive House component

For cool temperate climates, valid until 31 December 2017

Category: **Entry door with glazing**
 Manufacturer: **Moralt AG, 83734 Hausham, Germany**

Product: **Moralt OutDoor FERRO Passiv KlimaSoft ¹⁾**

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):

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

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

U-value before installation: $U_D = 0.77 \text{ W/(m}^2\text{K)}$.

The U-values were calculated based on **glazing with $U_g = 0.60 \text{ W/(m}^2\text{K)}$** (4/16/4/16/4) in accordance with EN 673 and the spacer "Thermix". The glass pane should have a maximum area of 0.533 m² or a maximum circumference of 3.78 m.

Airtightness:

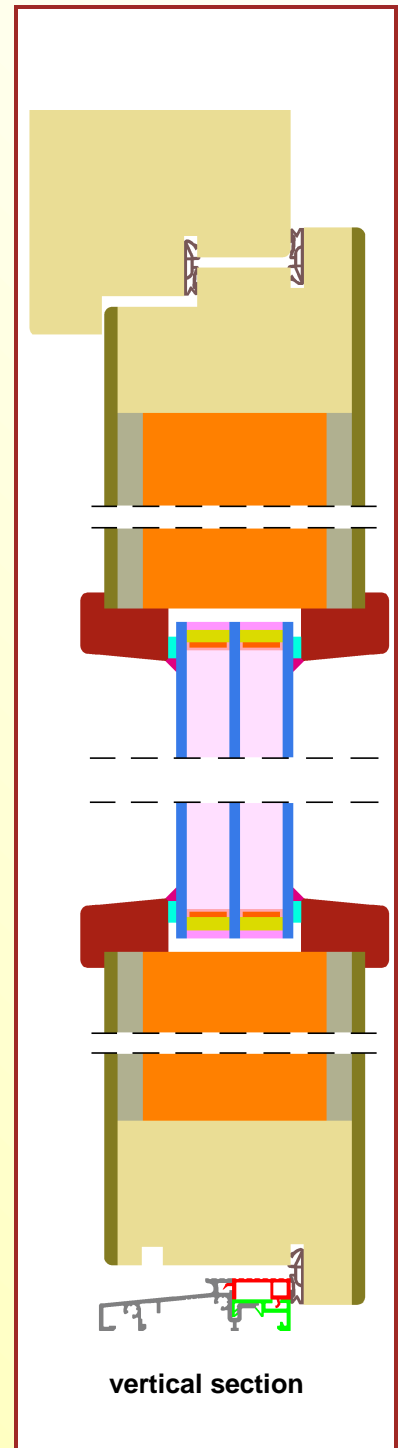
Airtightness class 3 according to EN 12207.

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. The airtightness test was carried out using a door without glazing.

¹⁾ Note:

In the product »Moralt OutDoor FERRO Passiv KlimaSoft with glazing« only wood with a thermal conductivity of no more than $\lambda = 0,13 \text{ W/(m}^2\text{K)}$ is used for the door frame and the revolving edge of the door leaf.



<p>U-value entry door including the above mentioned glazing with $U_g = 0.60 \text{ W/(m}^2\text{K)}$</p>	<p>$U_D = 0.77 \text{ W/(m}^2\text{K)}$</p>
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For further information, please see data sheet.