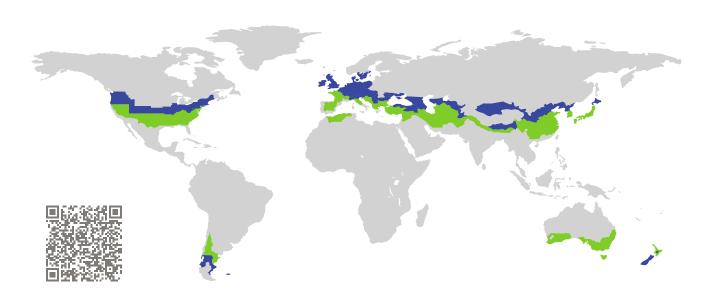
CERTIFICATE

Certified Passive House Component

Component-ID 0778ed03 valid until 31st December 2019

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Entry door

Manufacturer: **OPTIWIN GmbH**

Ebbs Austria

Product name: ENTRADA

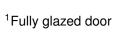
This certificate was awarded based on the following criteria for the cool, temperate climate zone

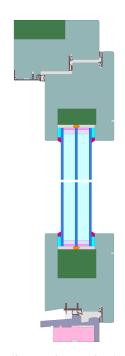
Comfort $U_D = 0.68 \le 0.80 \,\text{W/(m}^2 \,\text{K)}$

 $U_{D,\text{installed}} \leq 0.85 \text{ W/(m}^2 \text{ K)}$ with $U_g^1 = 0.50 \text{ W/(m}^2 \text{ K)}$

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

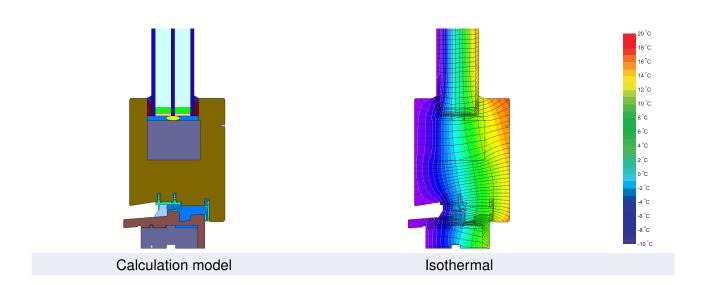
 $\mbox{Airtightness} \quad \mbox{Q_{100}} \qquad \qquad \leq \quad \mbox{2.25} \, \mbox{m}^3/(\mbox{h}\,\mbox{m})$





(Inward opening)





Description

Fully glazed door; Door frame made of wood profiles (0.11 W/(mK)) with insulation (0.040 W/(mK)); Glazing (4/18Ar/4/18Ar/4) with Ug = 0.50 W/(m^2 K) according to EN 673 and spacer 'Swisspacer Ultimate'; Threshold: insulated plastic profile (glass fibre reinforced plastics 0.52 W/(mK)), the temperature factor requirement is not met at the threshold.

Explanation

The U-values of the door apply to a door 1.10 m wide by 2.20 m tall.

A detailed report of the calculations performed in the context of certification is available from the manufacturer.

Unless stated otherwise, the air tightness was determined according to EN 1026 with respect to the joint length under climate load in conjunction with EN 1121 for the closed, non-locked door. The result corresponds at least to air-tightness class 3 according to EN 12207.

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.

Frame values		Frame width b _f mm	U -value frame U_f W/(m ² K)	Ψ edge $\Psi_{\mathcal{G}}$ W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Тор	(to)	189	0.74	0.022	-
Threshold	(th)	170	1.02	0.022	-
Hinge side	(hs)	189	0.74	0.022	-
Lock side	(ls)	189	0.76	0.022	-
	Spacer	: SWISSPACER Ultimat	e Seco	ndary seal: Polysulfic	de
Top $b_f = 189.00 \text{mm}$ $U_f = 0.74 \text{W/(m}^2 \text{K)}$ $\Psi_g = 0.022 \text{W/(m} \text{K)}$ $f_{Rsi} = -$					



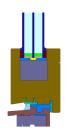
Threshold

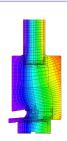
 $b_f = 170.00 \,\mathrm{mm}$

 $U_f = 1.02 \, \text{W/(m}^2 \, \text{K)}$

 Ψ_g = 0.022 W/(m K)

 $f_{Rsi} = -$







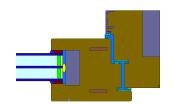
Hinge side

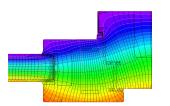
 $b_f = 189.00 \,\mathrm{mm}$

 $U_f = 0.74 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.022\,\mathrm{W/(m\,K)}$

 $f_{Rsi} = -$







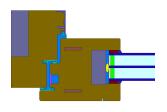
Lock side

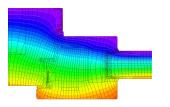
 $b_f = 189.00 \,\mathrm{mm}$

 $U_f = 0.76 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.022 \, \text{W/(m K)}$

 $f_{Rsi} = -$





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