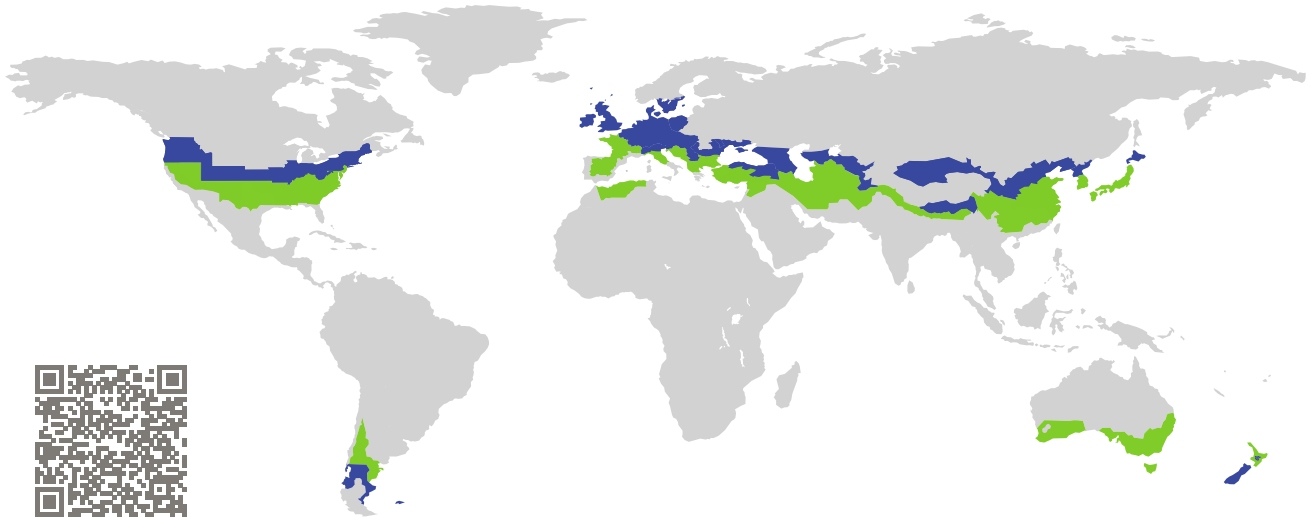


CERTIFICATE

Certified Passive House Component

Component-ID 1048ed03 valid until 31st December 2017

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

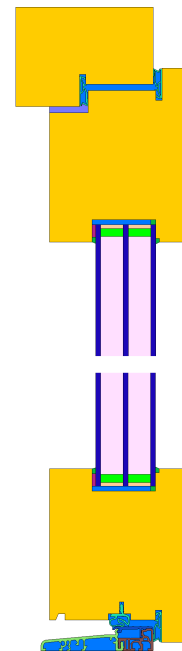


Category: **Entry door**
Manufacturer: **Holitsch GmbH
Tett nang-Hiltensweiler
Germany**
Product name: **Tarredo Passiva 110 Rahmen**

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

Comfort $U_D = 0.75 \leq 0.80 \text{ W}/(\text{m}^2 \text{ K})$
 $U_{D, \text{installed}} \leq 0.85 \text{ W}/(\text{m}^2 \text{ K})$
with $U_g^1 = 0.50 \text{ W}/(\text{m}^2 \text{ K})$

Hygiene $f_{Rsi=0.25} \geq 0.70$
Airtightness $Q_{100} \leq 2.25 \text{ m}^3/(\text{h m})$



(Inward opening)

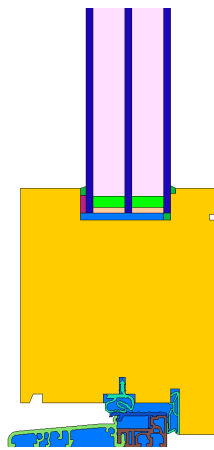
¹Fully glazed door

cool, temperate climate

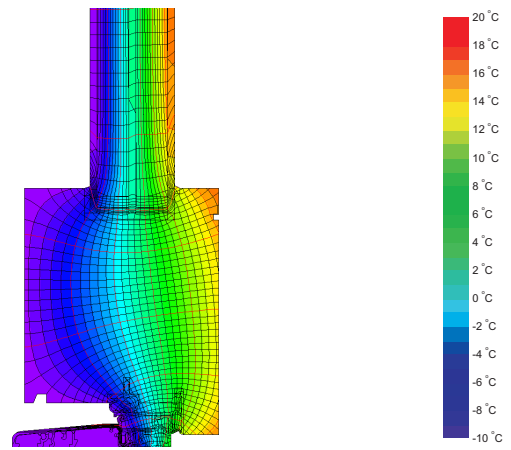


**CERTIFIED
COMPONENT**

Passive House Institute



Calculation model



Isothermal

Description

Fully glazed wooden entry door with a thermally separated sill
Glazing (4/18/4/18/4) with $U_g = 0.50 \text{ W}/(\text{m}^2\text{K})$ in accordance with EN 673
Spacer: Swisspacer Ultimate





Explanation


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 -glass edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Top	(to)		189	0.89	0.026	-
Threshold	(th)		147	1.21	0.025	-
Hinge side Door	(hs)		189	0.89	0.026	-
Lock side Door	(ls)		189	0.91	0.025	-
Spacer: SWISSPACER Ultimate			Secondary seal: Polysulfide			




Top


$b_f = 189.00$ mm

$U_f = 0.89$ W/(m² K)

$\Psi_g = 0.026$ W/(m K)

$f_{Rsi} = -$






Threshold


$b_f = 147.00$ mm

$U_f = 1.21$ W/(m² K)

$\Psi_g = 0.025$ W/(m K)

$f_{Rsi} = -$






Hinge side
Door


$b_f = 189.00$ mm

$U_f = 0.89$ W/(m² K)

$\Psi_g = 0.026$ W/(m K)

$f_{Rsi} = -$






Lock side
Door

$b_f = 189.00$ mm

$U_f = 0.91$ W/(m² K)

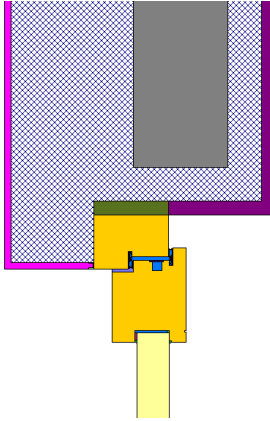
$\Psi_g = 0.025$ W/(m K)

$f_{Rsi} = -$



Insulated formwork blocks

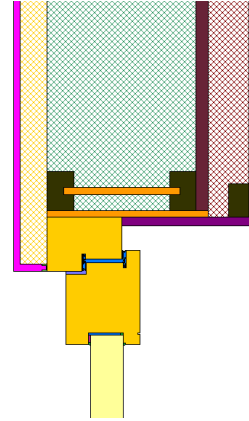
$$U_1 = 0.15 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = -0.00 \text{ W/(m K)}$$

Timber frame

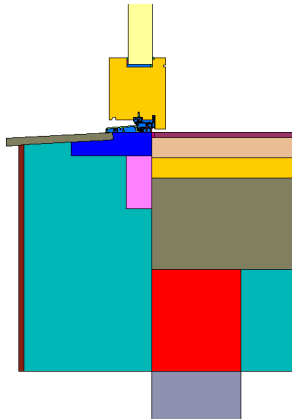
$$U_1 = 0.13 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = 0.03 \text{ W/(m K)}$$

Threshold entrance door

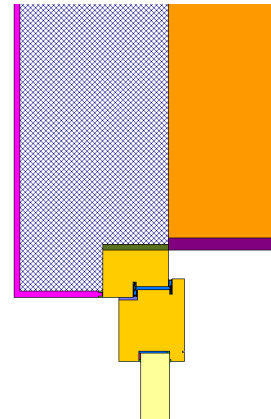
$$U_1 = 0.13 \quad U_2 = 0.15 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = 0.08 \text{ W/(m K)}$$

Exterior insulation and finishing system

$$U_1 = 0.13 \text{ [W/(m}^2 \text{ K)]}$$



$$\Psi_{\text{install}} = -0.00 \text{ W/(m K)}$$

