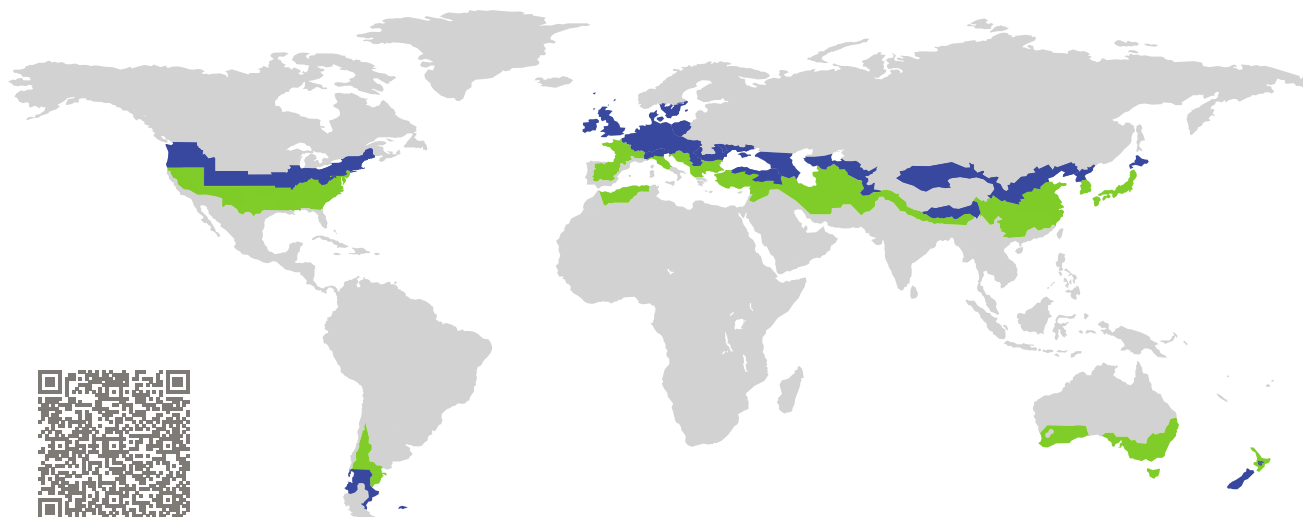


CERTIFICATE

Certified Passive House Component

Component-ID 0829ed03 valid until 31st December 2020

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

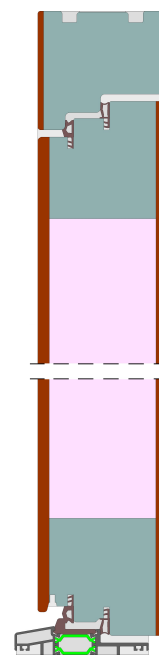


Category: **Entry door (opaque)**
Manufacturer: **Josko Fenster und Türen GmbH**
Kopling
Austria
Product name: **NEVOS SET C8**

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 $U_{\text{door leaf}}^1 = 0.37 \text{ W}/(\text{m}^2 \text{ K})$

Hygiene $f_{Rsi=0.25} \geq 0.70$
Airtightness $Q_{100} = 0.23 \leq 2.25 \text{ m}^3/(\text{h m})$



(Inward opening)

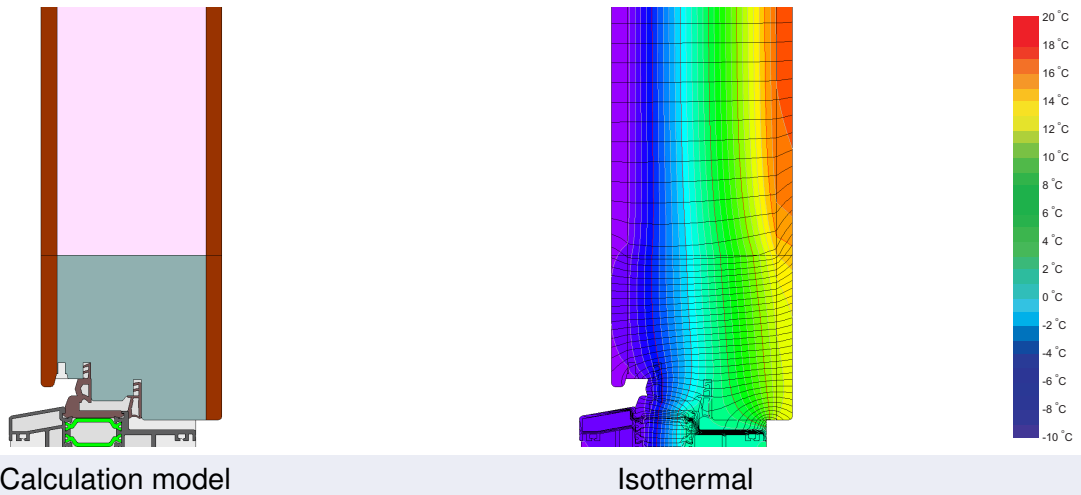
¹U-value of the insulated area of door leaf

cool, temperate climate



CERTIFIED COMPONENT

Passive House Institute



Description

Door frame made of wood profiles (spruce 0.11 W/(mK)), surface layer on both sides: fibre reinforced composite, door leaf insulation: PU-foam 0.030 W/(mK), threshold: thermally separated aluminum profile, the temperature factor requirement is not met at the threshold. The following product-variants are also included in this certification (please see the certification report, available from the manufacturer): NEVOS SET C4, NEVOS SET N8, NEVOS SET C4 Alu, NEVOS SET N8 Alu, NEVOS VET C4, NEVOS VET C8, NEVOS VET N8, NEVOS VET C4 Alu, NEVOS VET N8 Alu

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.

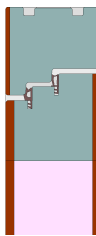
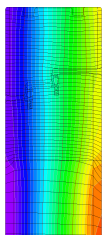
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense 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 Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Top	(to)		145	1.10	0.000	-
Threshold	(th)		96	1.50	0.000	-
Hinge side Door	(hs)		239	1.10	0.000	-
Lock side Door	(ls)		239	1.10	0.000	-
Spacer: -			Secondary seal: -			

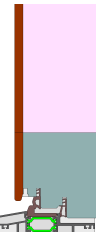
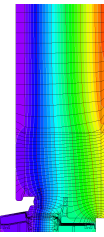
 **Top**


$b_f = 145.00$ mm
 $U_f = 1.10$ W/(m² K)
 $\Psi_g = 0.000$ W/(m K)
 $f_{Rsi} = -$

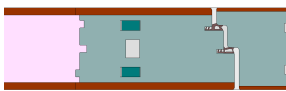
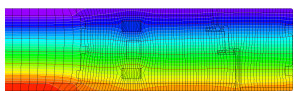
 **Threshold**


$b_f = 96.00$ mm
 $U_f = 1.50$ W/(m² K)
 $\Psi_g = 0.000$ W/(m K)
 $f_{Rsi} = -$

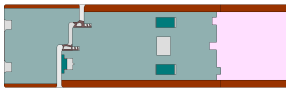
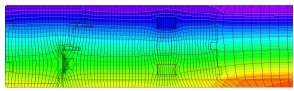
 **Hinge side**
Door

$b_f = 239.00$ mm
 $U_f = 1.10$ W/(m² K)
 $\Psi_g = 0.000$ W/(m K)
 $f_{Rsi} = -$

 **Lock side**
Door

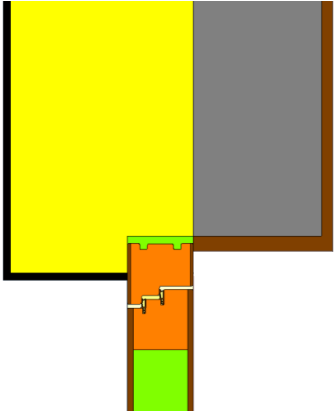
$b_f = 239.00$ mm
 $U_f = 1.10$ W/(m² K)
 $\Psi_g = 0.000$ W/(m K)
 $f_{Rsi} = -$

Validated installations

Exterior insulation and finishing system

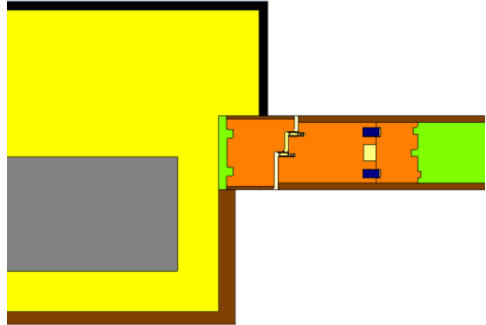
$U_1 = 0.13 \text{ [W/(m}^2 \text{ K)]}$



$\Psi_{\text{install}} = -0.002 \text{ W/(m K)}$

Formwork blocks side (operable)

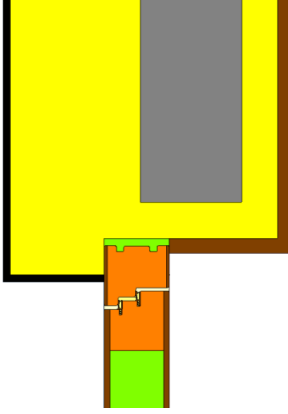
$U_1 = 0.15 \text{ [W/(m}^2 \text{ K)]}$



$\Psi_{\text{install}} = -0.004 \text{ W/(m K)}$

Insulated formwork blocks

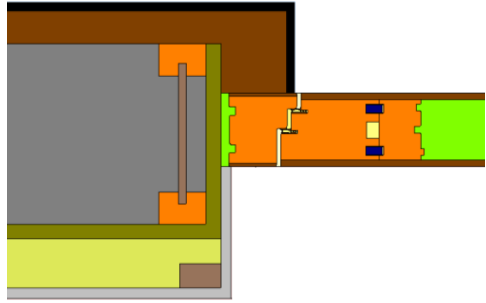
$U_1 = 0.15 \text{ [W/(m}^2 \text{ K)]}$



$\Psi_{\text{install}} = -0.002 \text{ W/(m K)}$

Lightweight timber side (operable)

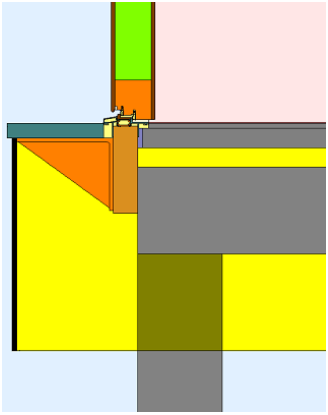
$U_1 = 0.12 \text{ [W/(m}^2 \text{ K)]}$



$\Psi_{\text{install}} = 0.001 \text{ W/(m K)}$

Threshold entrance door

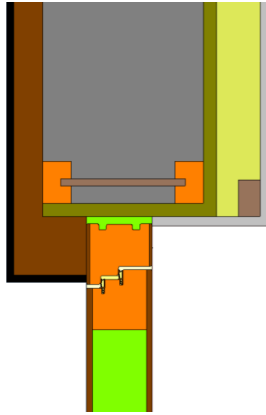
$U_1 = 0.13 \quad U_2 = 0.14 \text{ [W/(m}^2 \text{ K)]}$



$\Psi_{\text{install}} = 0.082 \text{ W/(m K)}$

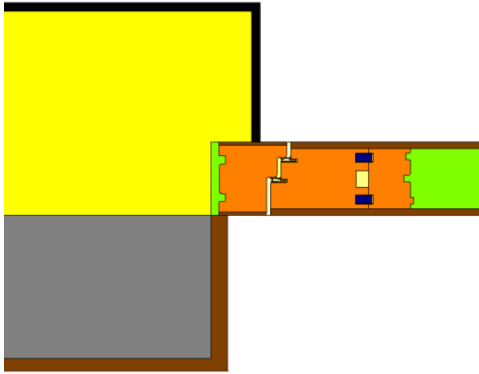
Timber frame

$U_1 = 0.12 \text{ [W/(m}^2 \text{ K)]}$



$\Psi_{\text{install}} = 0.000 \text{ W/(m K)}$

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



$$\psi_{\text{install}} = -0.003 \text{ W/(m K)}$$

