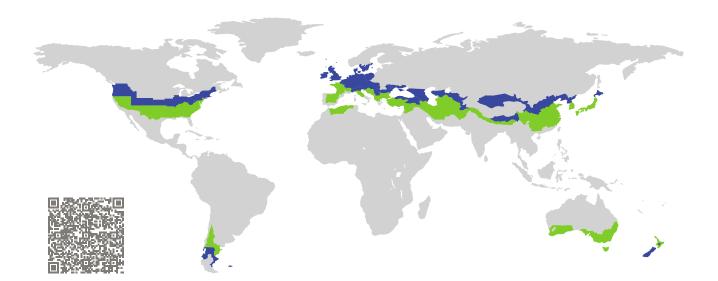
CERTIFICATE

Certified Passive House Component

Component-ID 1137ed03 valid until 31st December 2021

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category:	Entry door (opaque)
Manufacturer:	REYNAERS ALUMINIUM NV/SA Duffel Belgium
Product name:	MasterLine 8 panel door inward opening

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

Comfort

$U_D = 0.73$	
$U_{D,\text{installed}}$	
with $U_{\rm door leaf}$ ¹	

 $\begin{array}{rl} \leq & 0.80 \, \text{W}/(\text{m}^2 \, \text{K}) \\ \leq & 0.85 \, \text{W}/(\text{m}^2 \, \text{K}) \\ = & 0.28 \, \text{W}/(\text{m}^2 \, \text{K}) \end{array}$

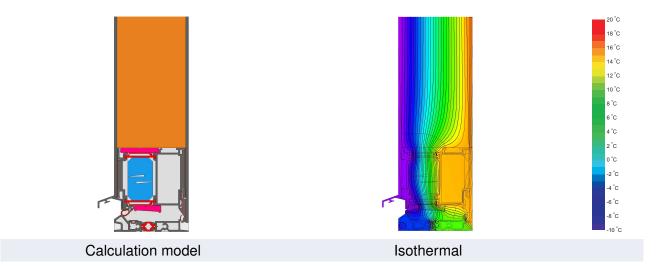
¹U-value of the insulated area of door leaf



(Inward opening)



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Description

Aluminium door frame with thermal break, insulated by XPS 0.029 W/(mK) and XPE foam. Door panel composition: 3 mm aluminium, 70 mm insulation 0.021 W/(mK), 3 mm aluminium. Threshold: thermally separated aluminium profile. 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.

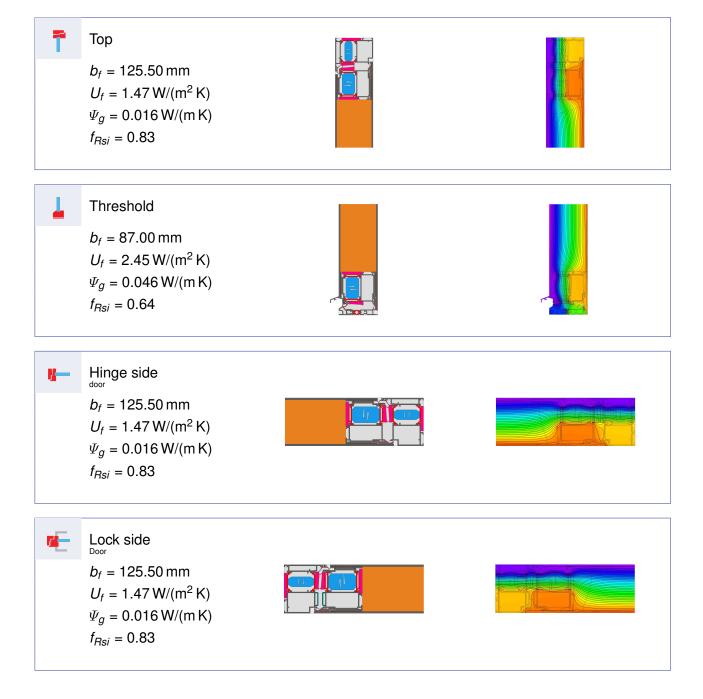
A detailed report of the calculations performed in the context of certification is available from the manufacturer.

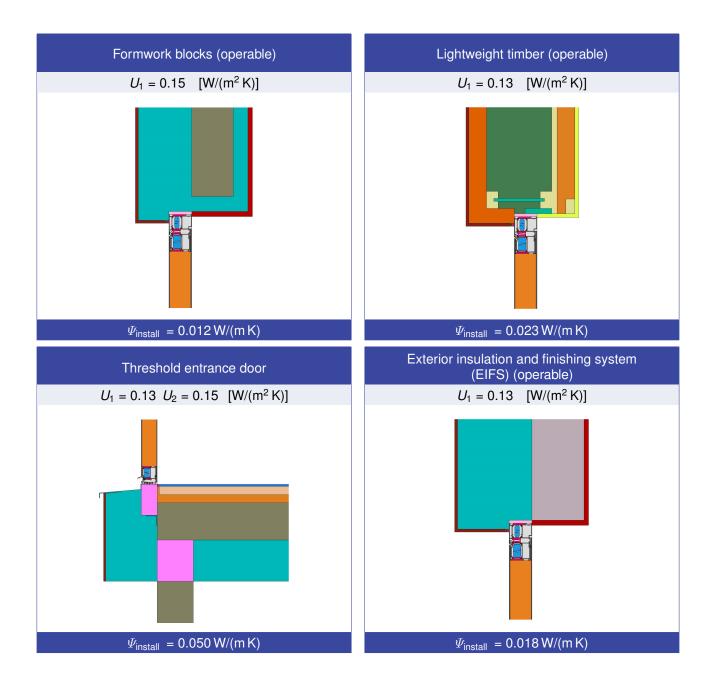
Unless stated otherwise, the air tightness was determined according to EN 1026 with respect to the joint length under climate load in conjunction with EN 1121 for the closed, non-locked door. The result corresponds at least to air-tightness class 3 according to EN 12207.

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 <i>b_f</i> mm	<i>U-</i> value frame <i>U_f</i> W/(m ² K)	Ψ edge Ψ_g W/(m K)	Temp. Factor <i>f_{Rsi=0.25}</i> [-]	
Тор	(to)	T	126	1.47	0.016	0.83	
Threshold	(th)	1	87	2.45	0.046	0.64	
Hinge side	(hs)	4-	126	1.47	0.016	0.83	
Lock side	(ls)	-	126	1.47	0.016	0.83	
			Spacer: -	Secondary s	Secondary seal: -		





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