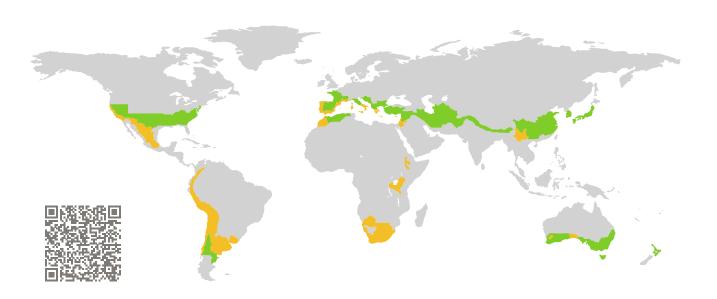
CERTIFICATE

Certified Passive House Component

Component-ID 1005wi04 valid until 31st December 2019

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Window Frame

Manufacturer: EuroFinestra s.a.s.,

Governolo di Roncoferraro,

Italy

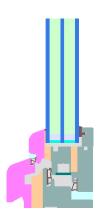
Product name: **ENERGY 68**

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

 $Comfort \quad \textit{U}_{\textit{W}} = 0.98 \quad \leq \quad 1.00 \, \text{W/(m}^2 \, \text{K)}$

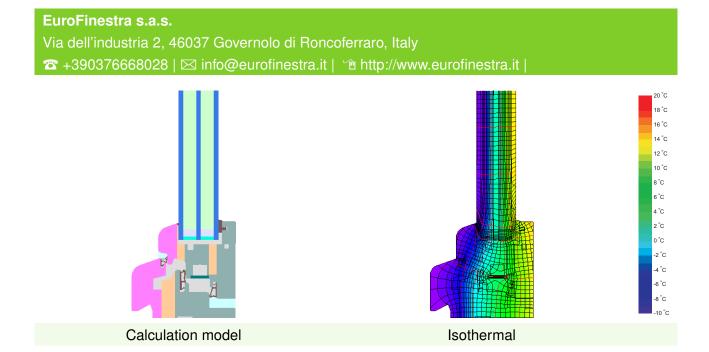
 $U_{W,\text{installed}} \leq 1.05 \text{ W/(m}^2 \text{ K)}$ with $U_q = 0.90 \text{ W/(m}^2 \text{ K)}$

Hygiene $f_{Rsi=0.25}$ \geq 0.65





warm, temperate climate



Description

Timber-cork frame (fir 0,11 W/mK, cork 0,04 W/mK). Frame width: 68mm. Glazing: 2/0,38/2-11-4-11-2/0,38/2. Spacer: SwissSpacer Ultimate. Secondary seal: Butyl.

Explanation

The window U-values were calculated for the test window size of 1.23 m \times 1.48 m with $U_g = 0.90$ W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations performed in the context of certification is available from the manufacturer.

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.

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Frame values			Frame width <i>b_f</i> mm	U -value frame U_f W/(m 2 K)	Ψ -panel edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Тор	(to)	Ŧ	85	0.96	0.026	0.71
Side	(s)	<u>u</u> —	85	0.96	0.026	0.71
Bottom	(bo)	Ţ	85	1.00	0.026	0.71
Mullion	(fm)	7	110	1.03	0.026	0.70
		Spacer:	SWISSPACER Ultim	nate Se	condary seal: Butyl	

Validated installations

