CERTIFICATE

Certified Passive House Component Component-ID 1434wi03 valid until 31st December 2019 **Passive House Institute** Dr. Wolfgang Feist 64283 Darmstadt Germany



Category:	Window Frame (Coupled Window)
Manufacturer:	EuroFinestra s.a.s.,
	Governolo di Roncoferraro,
	Italy
Product name:	ZEN

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

Comfort	$U_W=0.68$	\leq	0.80 W/(m ² K)
	$U_{W,\text{installed}}$	\leq	$0.85 W/(m^2 K)$
	with U_g ¹	=	$0.62 W/(m^2 K)$

phE

phD

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

Passive House

efficiency class

www.passivehouse.com



cool, temperate climate





Description

Timber-cork frame (softwood 0,13 W/mK, cork 0,045 W/mK). Frame width 77 mm. Tripe glazing with integral shading in 30 mm air gap: 4/18Ar/4/18Ar/6; additional 4 mm pane to the outside. Spacer: Super Spacer TriSeal / T-Spacer Premium with polysulfide secondary seal.

Explanation

The window U-values were calculated for the test window size of 1.23 m \times 1.48 m with $U_g = 0.70$ W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

Glazing ²	$U_g =$	0.70	0.64	0.58	0.52	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	0.68	0.65	0.61	0.57	W/(m ² K)

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.

²The specified U_g values refer to the thermally decisive pane.

Frame values			Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U_f</i> W/(m ² K)	Ψ -panel edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Тор	(to)	ī	77	0.54	0.041	0.75
Side	(s)	4-	77	0.54	0.028	0.77
Bottom	(bo)	Ţ	77	0.55	0.028	0.77
Mullion	(fm)	-	100	0.62	0.026	0.77
Spacer: Super Spacer TriSeal / T-Spacer Premium Secondary seal: Polysulfid						

Validated installations



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