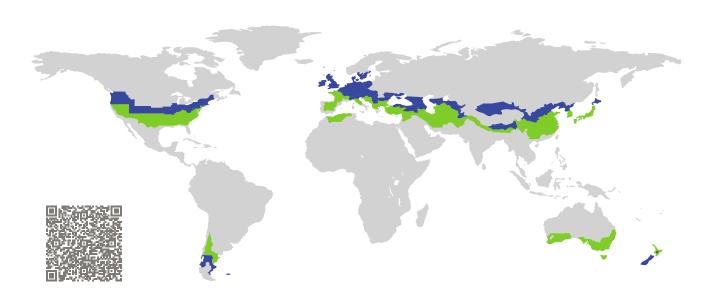
CERTIFICATE

Certified Passive House Component

Component-ID 1525fx03 valid until 31st December 2021

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Fixed window**

Manufacturer: FENETRES-FRANC-COMTOISES

MENUISERIE THIEBAUD,

Belleherbe,

France

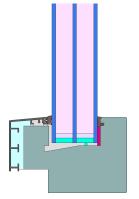
Product name: Caméléwood fixe bois alu

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

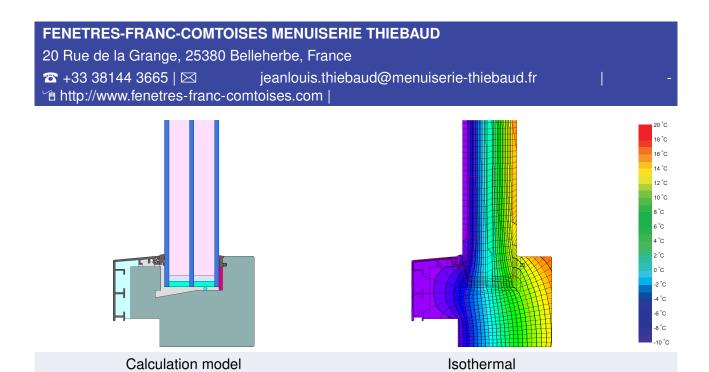
 $Comfort \quad \textit{U}_{\textit{W}} = 0.78 \quad \leq \quad 0.80 \, \text{W/(m}^2 \, \text{K)}$

 $U_{W,\text{installed}} \leq 0.85 \text{ W/(m}^2 \text{ K)}$ with $U_g = 0.70 \text{ W/(m}^2 \text{ K)}$

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







Description

Timberframe Jura fir (0.11 W/(mK)), PEFC certified, laminated wood, free of glue with aluminium facing shell, sealings and gaskets made of EPDM and silicone. Glass thickness: 48 mm (4/18/4/18/4), rebate depth: 27 mm, Spacer: Edgetech super spacer premium, Butyl secondary sealing. Recyclable at life-cycle end.

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
$$U_g = 0.70$$
 0.64 0.58 0.52 W/(m² K)
 \downarrow \downarrow \downarrow \downarrow \downarrow Window $U_W = 0.78$ 0.73 0.69 0.64 W/(m² 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.

Frame values			Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U_f</i> W/(m² K)	Ψ -panel edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]	
Top fixed	(tof)	T	80	0.79	0.020	0.76	
Side fixed	(sf)	-	80	0.79	0.020	0.76	
Bottom	(bof)	1	80	0.92	0.020	0.74	
Mullion 1 casement	(m1)	7	174	0.78	0.020	0.78	
		Spacer:	Super Spacer Prem	ium Se	Secondary seal: Butyl		

Validated installations

