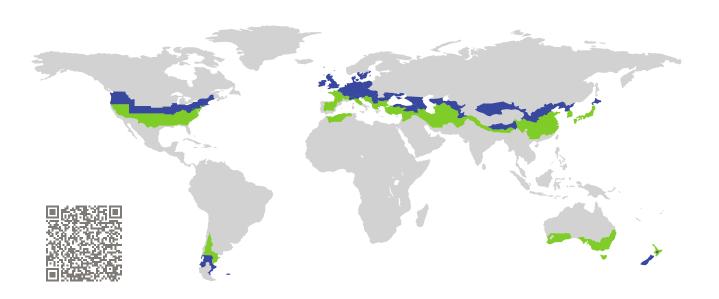
CERTIFICATE

Certified Passive House Component

Component-ID 0515sl03 valid until 31st December 2020

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category: Sliding Door

Manufacturer: **OPTIWIN GmbH**,

Ebbs, Austria

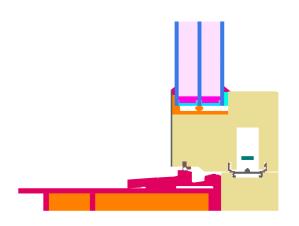
Product name: MOTURA

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

Comfort $U_{SL} = 0.79 \le 0.80 \,\text{W/(m}^2 \,\text{K)}$

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

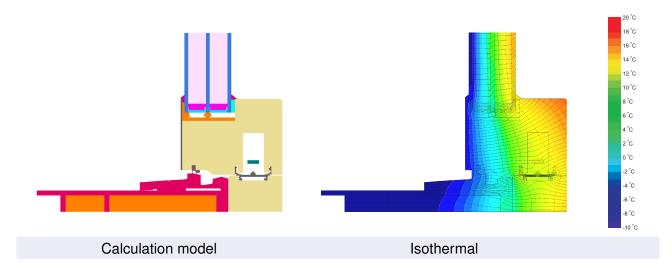
Hygiene $f_{Rsi=0.25}$ \geq 0.70



OPTIWIN GmbH

Wildbichlerstrasse 1, 6341 Ebbs, Austria

🕿 +43 5373 46046 0 | 🖂 office@optiwin.net | 🖆 http://www.optiwin.net |



Description

Timber frame (0,11 W/(mK)), Spruce, fir) with aluminium cladding and insulation (0,04 W/(mK)). Profiles form glass-fibre reinforced plastic (0,516 W/(mK)) are used. Used Pane: 48 mm (4/18/4/18/4), intersection of the glass: 15 mm.

Explanation

The window U-values were calculated for the test window size of $2.40 \,\mathrm{m} \times 2.50 \,\mathrm{m}$ with $U_g = 0.70 \,\mathrm{W/(m^2 \, K)}$. If a higher quality glazing is used, the window U-values will improve as follows:

Glazing	$U_g =$	0.70	0.66	0.60	0.54	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_{SL} =$	0.79	0.75	0.71	0.66	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.

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} [-]		
Тор	(to)	Ť	87	0.92	0.024	0.70		
Side	(s)	<u>u</u> —	98	0.70	0.025	0.70		
Top fixed	(tof)	T	87	0.66	0.023	0.70		
Side fixed	(sf)	-	90	0.54	0.022	0.70		
Bottom	(bof)	1	43	1.14	0.025	0.70		
Threshold	(th)	1	126	1.11	0.023	0.70		
Mullion 1 casement	(m1)	7	100	1.26	0.025	0.70		
		Sp	Spacer: PHI phA Spacer Secondary seal: -					



3/5 MOTURA

