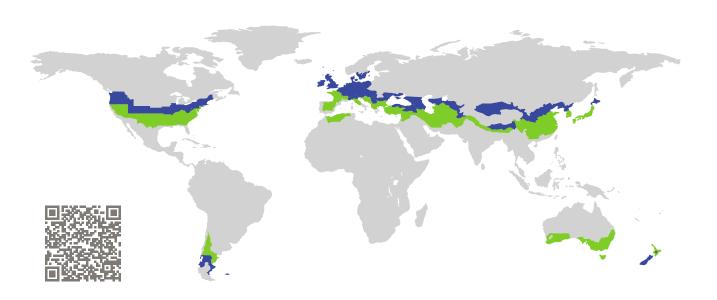
CERTIFICATE

Certified Passive House Component

Component-ID 0962sl03 valid until 31st December 2017

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Sliding Door

Manufacturer: Beijing Milan Window Energy Saving

Building Materials Co., Ltd,

BEIJING,

People's Republic of China

Product name: Milux Passive 135

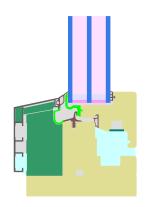
This certificate was awarded based on the following criteria for the cool, temperate climate zone

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

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

with $U_g = 0.70 \,\mathrm{W/(m^2\,K)}$

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

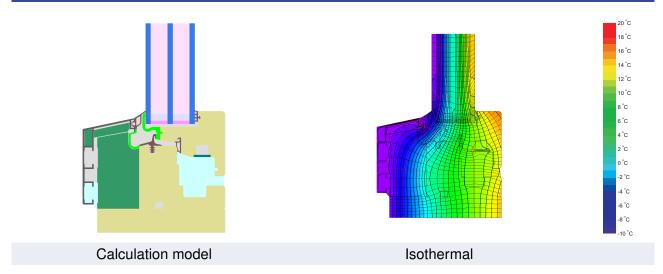




Beijing Milan Window Energy Saving Building Materials Co.,Ltd

baishan Industrial Park Changping Distrct, 102211 BEIJING, People's Republic of China

☎ +861080726999 | 🖂 melook@163.com | 🖆 http://www.milanwindows.com



Description

Timber frame (0.13W/(mK)) with external aluminium shall and insulation PU (0.036W/(mK)). Used Pane: 47 mm (5/16/5/16/5).

Explanation

The window U-values were calculated for the test window size of 2.40 m \times 2.50 m with U_q = 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	0.66	0.60	0.54	W/(m ² K)
		\downarrow	\downarrow	\downarrow	↓	
Window	$U_{SL} =$	0.80	0.76	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 -glass edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Тор	(to)	7	93	0.88	0.029	0.71
Side	(s)	ц—	93	0.82	0.028	0.71
Top fixed	(tof)	T	93	0.78	0.029	0.71
Side fixed	(sf)	-	93	0.76	0.028	0.71
Bottom	(bof)	L	116	0.84	0.028	0.71
Threshold	(th)	1	116	0.90	0.028	0.71
Mullion 1 casement	(m1)	71	133	0.90	0.028	0.71

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Top

 $b_f = 93.00 \, \text{mm}$

 $U_f = 0.88 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.029 \, \text{W/(m K)}$

 $f_{Rsi}=0.71$





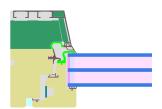
Side

 $b_f = 93.00 \, \text{mm}$

 $U_f = 0.82 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.028 \, \text{W/(m K)}$

 $f_{Rsi} = 0.71$





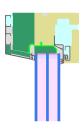
Top fixed

 $b_f = 93.00 \, \text{mm}$

 $U_f = 0.78 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.029 \, \text{W/(m K)}$

 $f_{Rsi} = 0.71$



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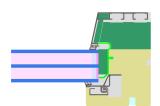
Side fixed

 $b_f = 93.00 \, \text{mm}$

 $U_f = 0.76 \, \text{W/(m}^2 \, \text{K)}$

 Ψ_g = 0.028 W/(m K)

 $f_{Rsi} = 0.71$





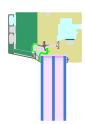
Bottom

 $b_f = 116.00 \,\mathrm{mm}$

 $U_f = 0.84 \, \text{W/(m}^2 \, \text{K)}$

 Ψ_g = 0.028 W/(m K)

 $f_{Rsi} = 0.71$





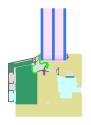
Threshold

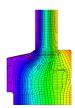
 $b_f = 116.00 \,\mathrm{mm}$

 $U_f = 0.90 \, \text{W/(m}^2 \, \text{K)}$

 Ψ_g = 0.028 W/(m K)

 $f_{Rsi} = 0.71$







Mullion

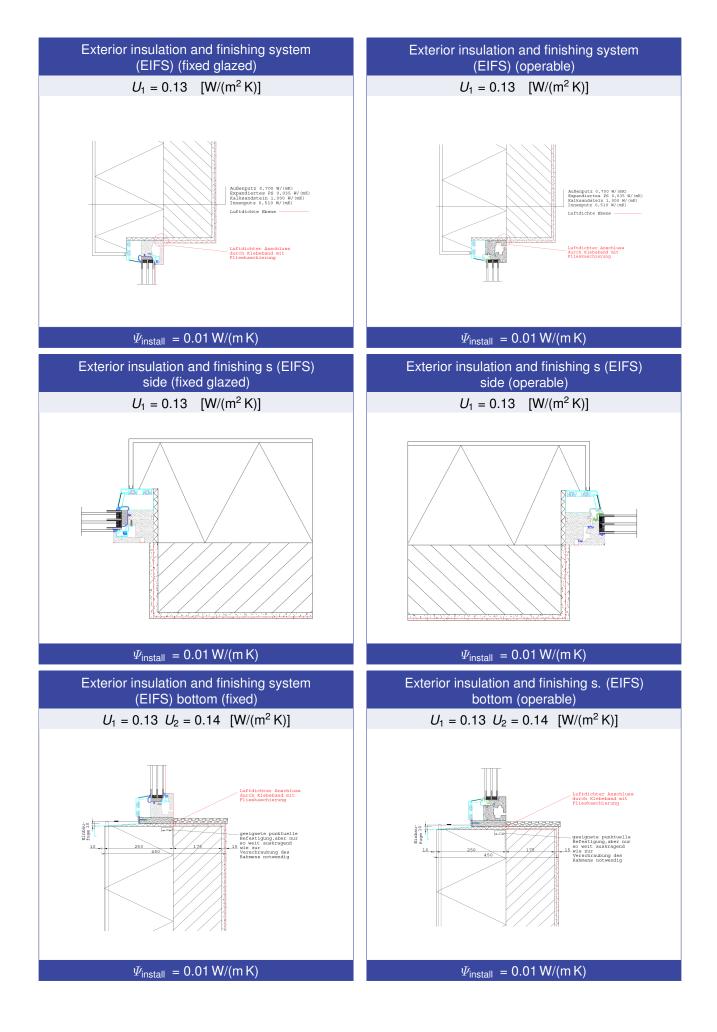
 $b_f = 133.00 \,\mathrm{mm}$

 $U_f = 0.90 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.028 \, \text{W/(m K)}$

 $f_{Rsi} = 0.71$





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