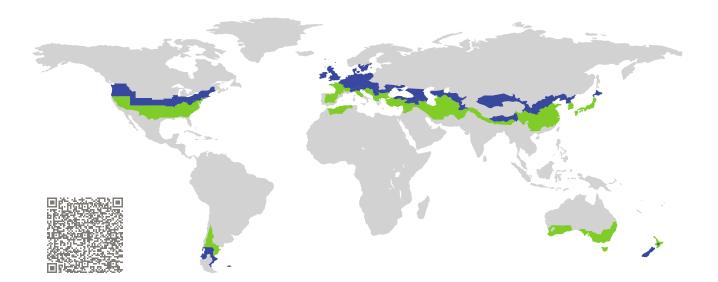
CERTIFICATE

Certified Passive House Component

Component-ID 0962sl03 valid until 31st December 2025

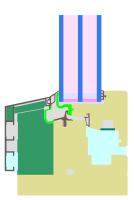
Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

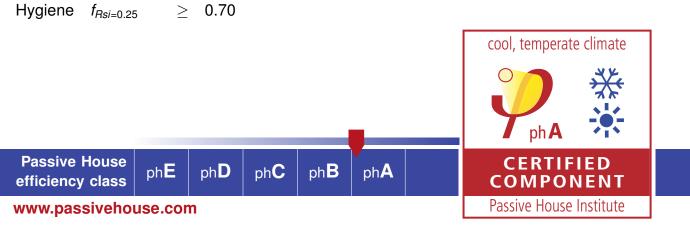


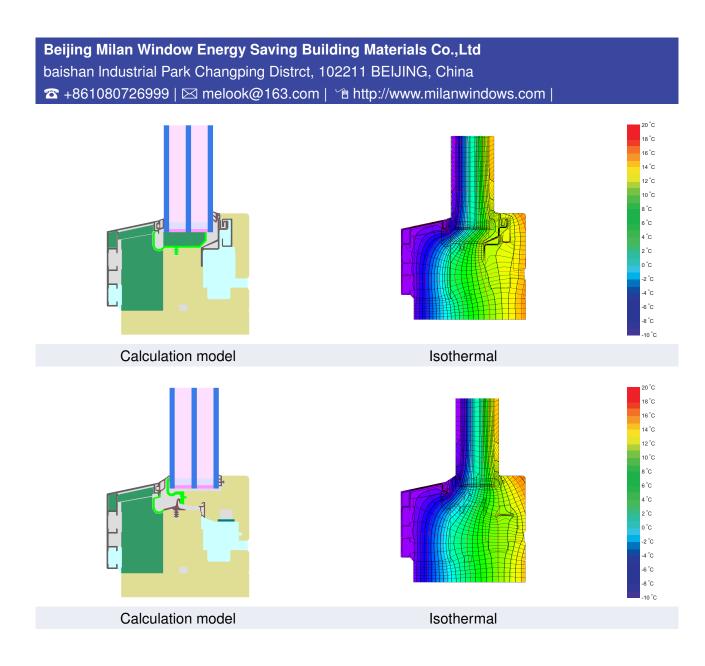
Category:	Sliding Door
Manufacturer:	Beijing Milan Window Energy Saving
	Building Materials Co.,Ltd,
	BEIJING,
	China
Product name:	Milux Passive 135

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

Comfort	<i>U_{SL}</i> = 0.79	\leq	0.80 W/(m ² K)
	$U_{SL,installed}$	\leq	$0.85 W/(m^2 K)$
	with U_g	=	$0.70 W/(m^2 K)$







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 $2.40 \text{ m} \times 2.50 \text{ m}$ with $U_g = 0.70 \text{ W/(m^2 K)}$. 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	$U_W =$	0.79	0.76	0.71	0.66	W/(m ² K)

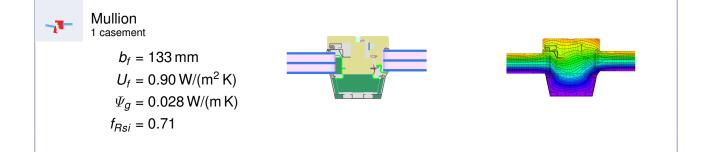
Component-ID: 0962sI03

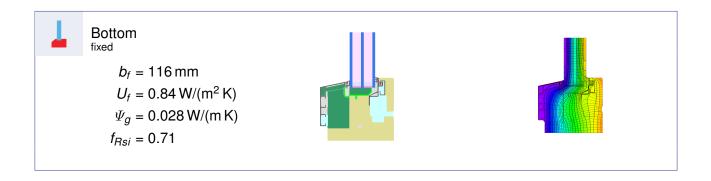
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

Frame value	es		Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U_f</i> W/(m ² K)	$arPsi$ -glazing edge $arPsi_g$ W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion 1 casement	(1M1)		133	0.90	0.028	0.71
Bottom fixed	(FB1)	1	116	0.84	0.028	0.71
Top fixed	(FH1)	T	93	0.78	0.029	0.71
Lateral	(FJ1)	-	93	0.76	0.028	0.71
Тор	(OH1)	F	93	0.88	0.029	0.71
Lateral	(OJ1)	<u>11</u>	93	0.82	0.028	0.71
Threshold	(OT2)	4	116	0.90	0.028	0.71
Spacer: SWISSPACER Ultimate				e Seco	ndary seal: Polysulfic	de

Further information relating to certification can be found on www.passivehouse.com and passipedia.org.



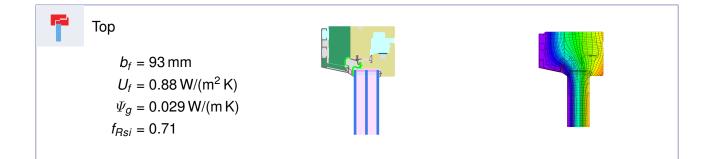


Top
fixed

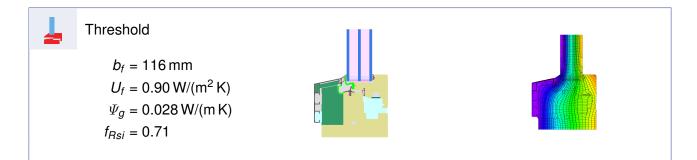
$$b_f = 93 \text{ mm}$$

 $U_f = 0.78 \text{ W/(m^2 \text{ K})}$
 $\Psi_g = 0.029 \text{ W/(m \text{ K})}$
 $f_{Rsi} = 0.71$

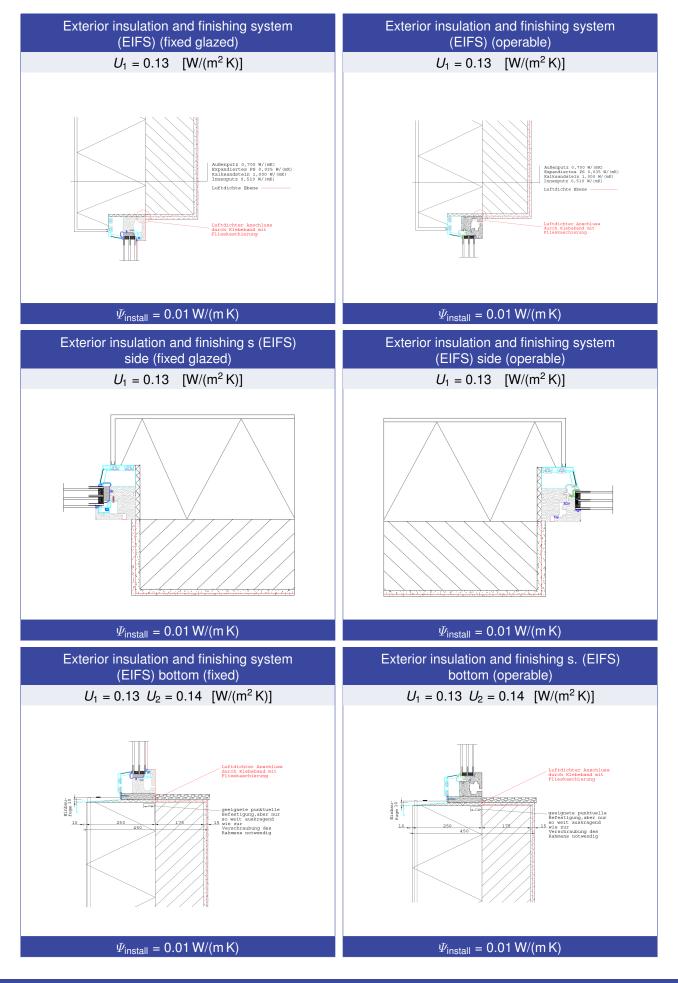
Lateral ^{fixed}
$b_f = 93 \mathrm{mm}$
$U_f = 0.76 \mathrm{W}/(\mathrm{m}^2 \mathrm{K})$
Ψ_g = 0.028 W/(m K)
$f_{Rsi} = 0.71$



u —	Lateral
	$b_f = 93 \text{ mm}$ $U_f = 0.82 \text{ W/(m^2 \text{ K})}$ $\Psi_g = 0.028 \text{ W/(m \text{ K})}$
	$f_{Rsi} = 0.71$



Validated installations



Milux Passive 135

www.passivehouse.com