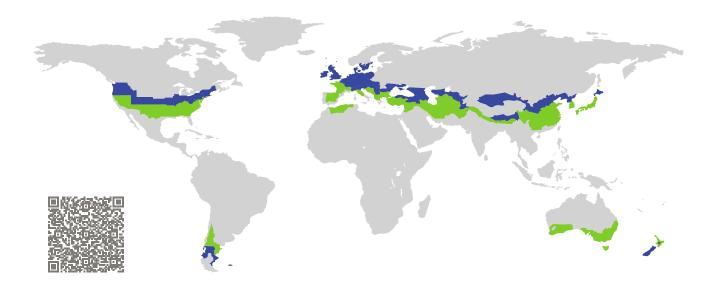
# CERTIFICATE

Certified Passive House Component

Component-ID 0957wi03 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category:	Window Frame
Manufacturer:	Beijing Milan Window Energy Saving
	Building Materials Co.,Ltd,
	BEIJING,
	China
Product name:	Milux Passive 95

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

<sup>1</sup>The specified  $U_g$  value is determined using the reference glazing of the

phD

phC

phB

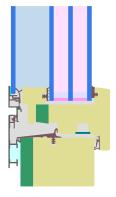
phA

Comfort	<i>U</i> <sub><i>W</i></sub> = 0.77	$\leq$	0.80 W/(m <sup>2</sup> K)
	$U_{W,\text{installed}}$	$\leq$	$0.85  W/(m^2  K)$
	with $U_g$ <sup>1</sup>	=	0.62 W/(m <sup>2</sup> K)

climate zone in conjunction with the additional pane

phE

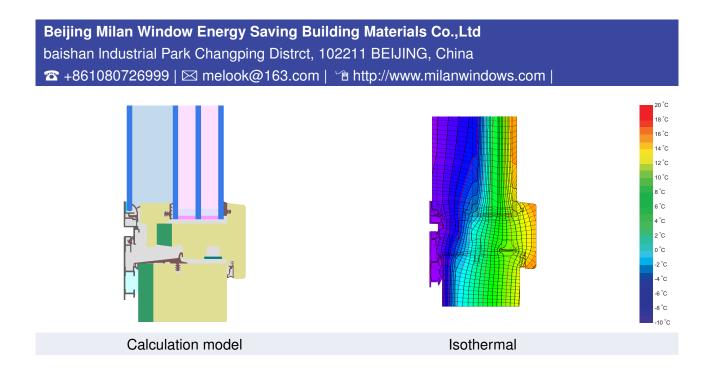
Hygiene  $f_{Rsi=0.25}$   $\geq$  0.70





Passive House

efficiency class



### Description

Timber frame (larch 0.13W/(mK)) with external aluminium shall and insulation (PU 0.036W/(mK)). Pane thickness: 89,5 mm (5/35.5/5/16/5/16/5), rebate depth: 15 mm

#### 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/(m<sup>2</sup> K). If a higher quality glazing is used, the window U-values will improve as follows:

Glazing <sup>2</sup>	$U_g =$	0.70	0.64	0.58	0.52	W/(m <sup>2</sup> K)
		$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	
Window	$U_W =$	0.77	0.74	0.71	0.67	W/(m <sup>2</sup> K)

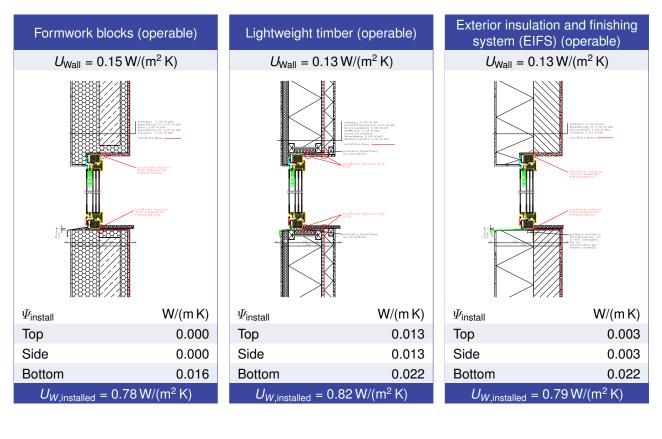
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

<sup>2</sup>The specified  $U_g$  values refer to the thermally decisive glazing.

#### Validated installations



Frame value	S		Frame width <i>b<sub>f</sub></i> mm	<i>U</i> -value frame <i>U</i> f W/(m <sup>2</sup> K)	$arPsi$ -glazing edge $arPsi_g$ W/(m K)	Temp. Factor f <sub>Rsi=0.25</sub> [-]
Mullion 2 casements	(2M1)	-1-	170	0.96	0.020	0.75
Bottom	(OB1)	4	112	0.96	0.020	0.76
Тор	(OH1)	T	112	0.96	0.020	0.76
Lateral	(OJ1)	<u>11</u>	112	0.96	0.020	0.76
	Spa	acer: SW	ISSPACER Ultimate	e Seco	ndary seal: Polysulfic	le

www.passivehouse.com