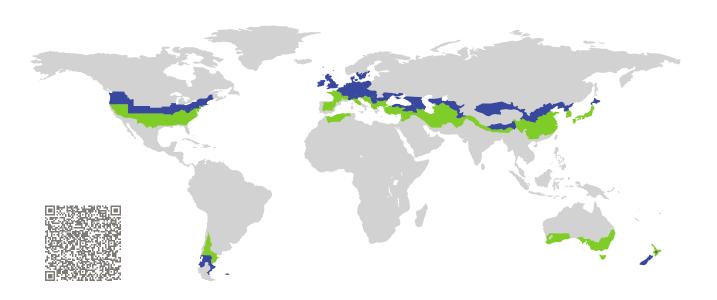
CERTIFICATE

Certified Passive House Component

Component-ID 1364wi03 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category: Window Frame

Manufacturer: Shanghai Collodin Material Scientific

and Technological Development Co.,

Ltd., Shanghai, China

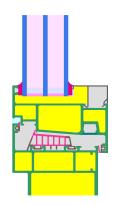
Product name: 95 series

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

Comfort $U_W = 0.79 \le 0.80 \,\mathrm{W/(m^2\,K)}$

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

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



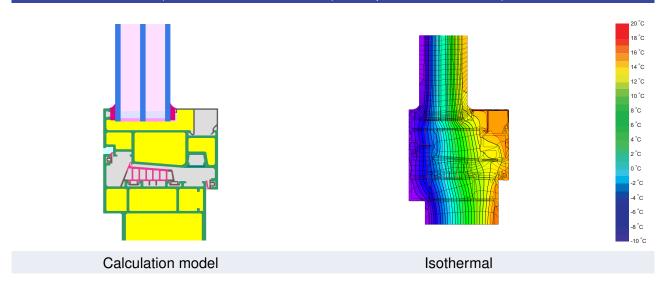


Shanghai Collodin Material Scientific and Technological Development Co., Ltd.

No. 198 Dongye Road, Dongjing industrial distirct, Songjiang District, 201619 Shanghai, China

↑ +86 15216685863 |

□ anni-sun@shcld.com |
□ http://www.shcld.com |



Description

Frame made of fiber reinforced PU (0.39 W/(mK)) and insulation (PU foam 0.022 W/(mK)), Pane thickness: 48 mm (6/15/6/15/6), rebate depth: 15 mm. Spacer: SWISSPACER Ultimate.

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
$$U_g = \begin{bmatrix} 0.70 & 0.64 & 0.58 & 0.54 & W/(m^2 \text{ K}) \\ \downarrow & \downarrow & \downarrow & \downarrow \\ Window $U_W = \begin{bmatrix} 0.79 & 0.75 & 0.71 & 0.68 & W/(m^2 \text{ K}) \\ \end{bmatrix}$$$

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.

2/5 95 series

Frame values			Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U_f</i> W/(m² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion 1 casement	(1M1)	1	127	0.80	0.029	0.79
Transom 1 casement	(1T1)	*	127	0.80	0.029	0.79
Bottom	(OB1)		122	0.76	0.029	0.78
Тор	(OH1)	f	122	0.76	0.029	0.78
Lateral	(OJ1)	1	122	0.76	0.029	0.78
Spacer: SWISSPACER Ultimate Secondary seal: Polysulfide						de

Validated installations

