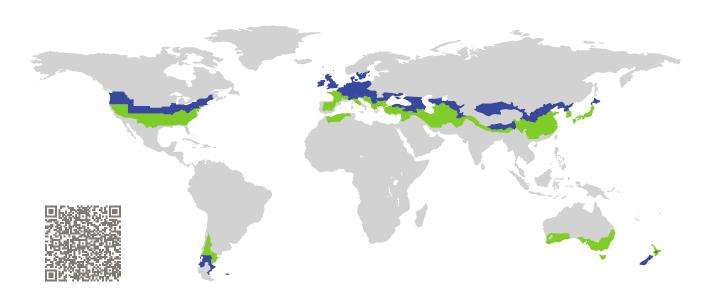
CERTIFICATE

Certified Passive House Component

Component-ID 1345fx03 valid until 31st December 2020

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Fixed window

Manufacturer: Harbin Sayyas Windows Stock Co.

Ltd.,

Wanggang Town Nangang Distr.

Harbin, China

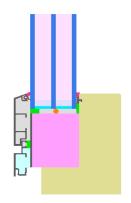
Product name: P120-fix



Comfort $U_W = 0.74 \le 0.80 \,\text{W/(m}^2 \,\text{K)}$

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

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

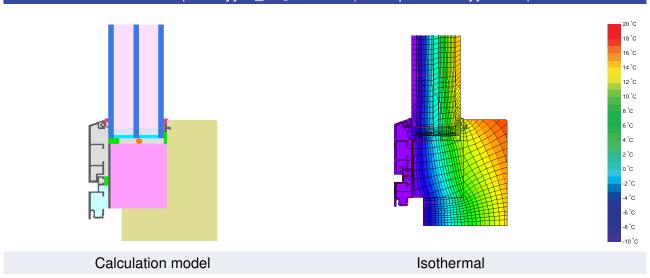




Harbin Sayyas Windows Stock Co. Ltd.

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Description

Alu-Timber frame (0,13 W/(mK)) for fixed glazing, insulated by XPS-foam (0,035 W/(mK)). Pane thickness: 51 mm (5/18/5/18/5), rebate depth: 17 mm. Spacer: SWISSPACER Ultimate with polyurethane as secondary seal.

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
$$U_g = 0.70$$
 0.64 0.58 0.52 W/(m² K)
 \downarrow \downarrow \downarrow \downarrow \downarrow Window $U_W = 0.74$ 0.70 0.65 0.61 W/(m² 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.

2/4 P120-fix

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} [-]
Top fixed	(tof)	T	112	0.60	0.022	0.75
Side fixed	(sf)	-	112	0.60	0.022	0.75
Bottom	(bof)	1	112	0.78	0.022	0.74
Mullion fixed	(m)	-8-	124	0.57	0.022	0.76
	Spacer: SWISSPACER Ultimate Secondary seal: Polyurethan					

Validated installations

