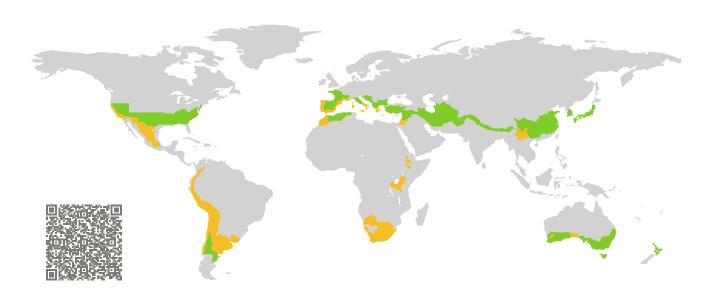
CERTIFICATE

Certified Passive House Component

Component-ID 2378ed04 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



Category: Entry door

Manufacturer: FOSHAN SANSHUI FENGLU

ALUMINIUM COMPANY LIMITED

Foshan China

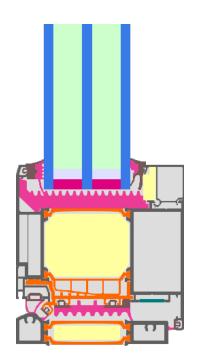
Product name: FG95MHI

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

 $Comfort \quad \textit{U}_{\textit{D}}\text{= }0.94 \quad \leq \quad 1.00\,\text{W}/\text{(m}^2\,\text{K)}$

 $U_{D,\text{installed}} \leq 1.05 \text{ W/(m}^2 \text{ K)}$ with $U_g^1 = 0.90 \text{ W/(m}^2 \text{ K)}$

Hygiene $f_{Rsi=0.25}$ \geq 0.65



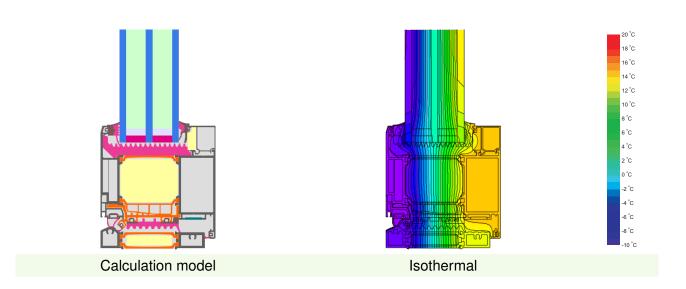
(Inward opening)



¹Fully glazed door

FOSHAN SANSHUI FENGLU ALUMINIUM COMPANY LIMITED

Hekou Development Zone, Sanshui District, Guangdong, Province, 528133 Foshan, China ↑ +86 757 87671111 | ☐ fenglu@fenlgu-alu.com | ↑ http://www.fenglu-alu.com |



Description

Aluminum frame with thermal separation (Technoform Low Lambda, 0,21 W/(mK)) and insulation (Kinspan Kooltherm, 0,022 W/(mK)). Pane thickness: 54 mm (6/18/6/18/6), rebate depth: 15 mm. As the door is fully glazed, airtightness testing is not deemed necessary for certification, however it may be required in other circumstances. An alternative Ug-value of 0,80 will give a Ud-value of 0,88 W/(m²K); a Ug-value of 0,70 will give a Ud-value of 0,81 W/(m²K); a Ug-value of 0,65 will give a Ud-value of 0,78 W/(m²K).

Explanation

The U-values of the door apply to a door 1.10 m wide by 2.20 m tall.

A detailed report of the calculations performed in the context of certification is available from the manufacturer.

Unless stated otherwise, the air tightness was determined according to EN 1026 with respect to the joint length under climate load in conjunction with EN 1121 for the closed, non-locked door. The result corresponds at least to air-tightness class 3 according to EN 12207.

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 value	:S		Frame width <i>b_f</i> mm	U -value frame U_f W/(m ² K)	Ψ edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Door hinge side	(DJ1)	11	137	0.79	0.032	0.73
Door lock side	(DL1)	4	137	0.79	0.032	0.73
Тор	(OH1)	F	137	0.79	0.032	0.73
Threshold	(OT2)	Ī	112	0.94	0.032	0.72

Spacer: Technoform-Spacer SP16

Secondary seal: Silicone



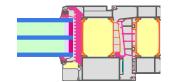
Door hinge side

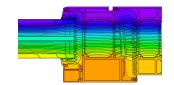
 $b_f = 137 \, \text{mm}$

 $U_f = 0.79 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.032\,\mathrm{W/(m\,K)}$

 $f_{Rsi} = 0.73$







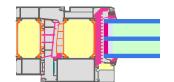
Door lock side

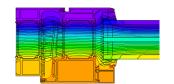
 $b_f = 137 \, \text{mm}$

 $U_f = 0.79 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.032 \, \text{W/(m K)}$

 $f_{Rsi} = 0.73$







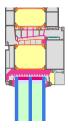
Top

 $b_f = 137 \, \text{mm}$

 $U_f = 0.79 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.032 \, \text{W/(m K)}$

 $f_{Rsi} = 0.73$







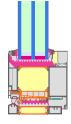
Threshold

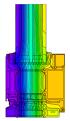
 $b_f = 112 \, \text{mm}$

 $U_f = 0.94 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.032 \, \text{W/(m K)}$

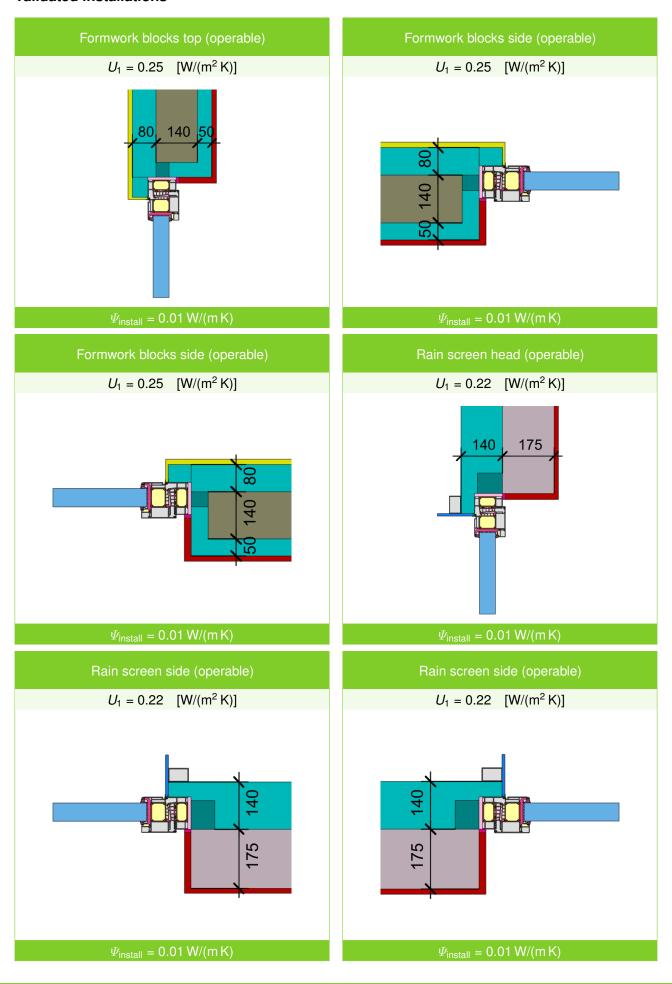
 $f_{Rsi} = 0.72$





3/7 FG95MHI

Validated installations



5/7 FG95MHI

