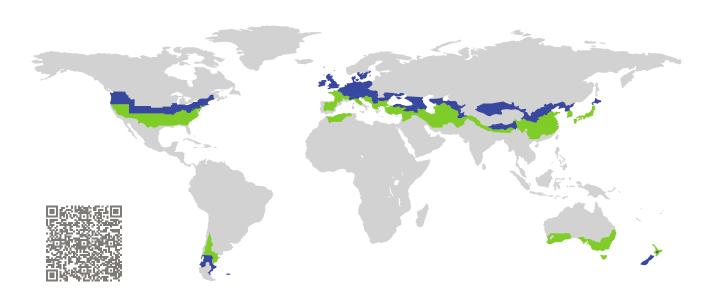
# CERTIFICATE

**Certified Passive House Component** 

Component-ID 1252ds03 valid until 31st December 2020

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Door system** 

Manufacturer: ViewMax Windows and Doors

Limited Yanggu China

Product name: Viewmax door

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

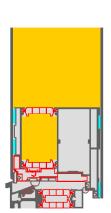
Comfort  $U_D = 0.75 \le 0.80 \text{ W/(m}^2 \text{ K)}$ 

 $U_{D,\text{installed}} \leq 0.85 \text{ W/(m}^2 \text{ K)}$ with  $U_{\text{door leaf}}^{1} = 0.33 \text{ W/(m}^2 \text{ K)}$ 

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

Airtightness  $Q_{100} \leq 2.25 \,\mathrm{m}^3/(\mathrm{h}\,\mathrm{m})$ 

<sup>1</sup>U-value of the insulated area of door leaf

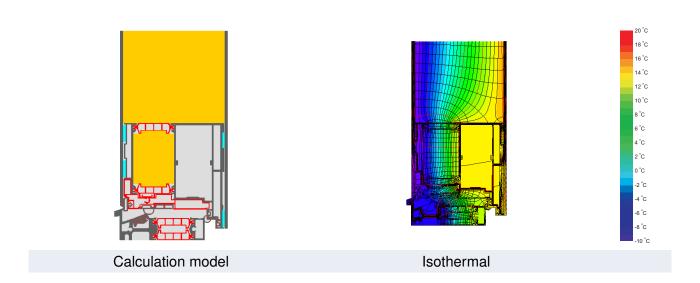


(Inward opening)



QiaoRun Development Zone, 297 HuaXin Road, 252323 Yanggu, China

★ +86 (0)635 6538888 | ☑ info@view-max.net | ☐ http://www.view-max.net



#### **Description**

Aluminium door leaf and frame (160 W/(mK)), bottom part of the frame si made of Polyamide (0,300 W/(mK), door leaf and frame insulated by XPS insulation (0.034 W/(mK)). U-value of the side-parts opaque filling: 0.59 W/(m²K). Aluminium threshold is thermally separated.

#### **Explanation**

The U-values of the door apply to a combination of door and sidelight with fixed glazing, 2.20 m wide by 2.20 m tall. The door and the sidelight are both 1.10 m wide.

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 values			Frame width <i>b<sub>f</sub></i> mm	<i>U</i> -value frame <i>U<sub>f</sub></i> W/(m² K)	$\Psi$ edge $\Psi_g$ W/(m K)	Temp. Factor f <sub>Rsi=0.25</sub> [-]	
Тор	(to)	Ť	140	1.43	0.013	0.74	
Top fixed	(tof)	T	80	1.31	0.006	0.80	
Side fixed	(sf)	-	80	1.31	0.006	0.80	
Bottom	(bof)	1	80	1.31	0.006	0.80	
Threshold	(th)	1	112	1.77	0.015	0.71	
Hinge side	(hs)	<b>!!</b> —	140	1.43	0.013	0.74	
Lock side	(Is)		140	1.42	0.013	0.75	
Mullion 1 casement	(m1)	-1	174	1.53	0.018	0.77	
			Spacer: -	Secondary s	Secondary seal: -		



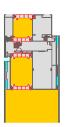
#### Top

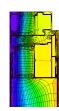
 $b_f = 139.60 \,\mathrm{mm}$ 

 $U_f = 1.43 \, \text{W/(m}^2 \, \text{K)}$ 

 $\Psi_g$  = 0.013 W/(m K)

 $f_{Rsi}=0.74$ 







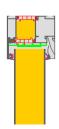
### Top

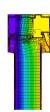
 $b_f = 79.90 \, \text{mm}$ 

 $U_f = 1.31 \, \text{W/(m}^2 \, \text{K)}$ 

 $\Psi_g = 0.006 \, \text{W/(m K)}$ 

 $f_{Rsi}=0.80$ 







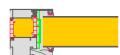
### Side

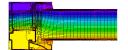
 $b_f = 79.90 \, \text{mm}$ 

 $U_f = 1.31 \, \text{W}/(\text{m}^2 \, \text{K})$ 

 $\Psi_g = 0.006 \, \text{W/(m K)}$ 

 $f_{Rsi}=0.80$ 





3/8 Viewmax door



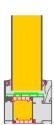
### Bottom

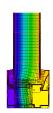
 $b_f = 79.90 \, \text{mm}$ 

 $U_f = 1.31 \, \text{W/(m}^2 \, \text{K)}$ 

 $\Psi_g = 0.006 \, \mathrm{W/(m \, K)}$ 

 $f_{Rsi}=0.80$ 





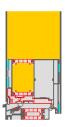
#### Threshold

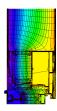
 $b_f = 111.80 \, \text{mm}$ 

 $U_f = 1.77 \, \text{W/(m}^2 \, \text{K)}$ 

 $\Psi_g = 0.015 \, \text{W/(m K)}$ 

 $f_{Rsi} = 0.71$ 







## Hinge side

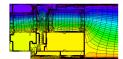
 $b_f = 139.60 \, \text{mm}$ 

 $U_f = 1.43 \, \text{W/(m}^2 \, \text{K)}$ 

 $\Psi_g = 0.013 \, \text{W/(m K)}$ 

 $f_{Rsi} = 0.74$ 







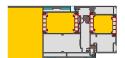
#### Lock side

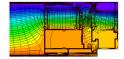
 $b_f = 139.60 \, \text{mm}$ 

 $U_f = 1.42 \, \text{W/(m}^2 \, \text{K)}$ 

 $\Psi_g = 0.013 \, \text{W/(m K)}$ 

 $f_{Rsi} = 0.75$ 







#### Mullion

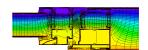
 $b_f = 174.00 \, \text{mm}$ 

 $U_f = 1.53 \, \text{W/(m}^2 \, \text{K)}$ 

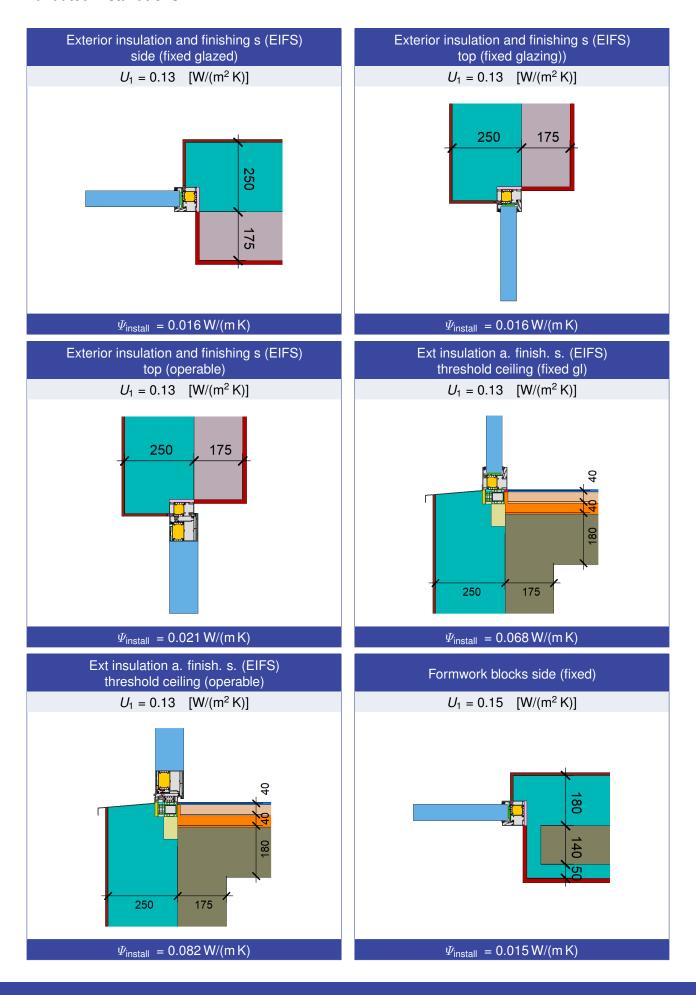
 $\Psi_g = 0.018 \, \text{W/(m K)}$ 

 $f_{Rsi} = 0.77$ 

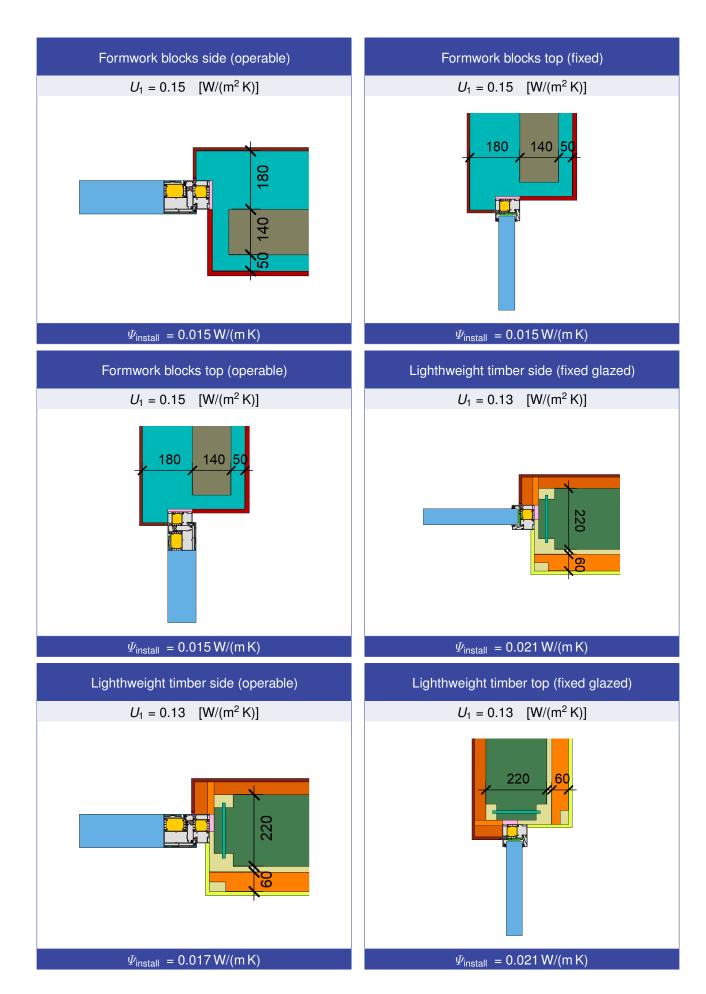


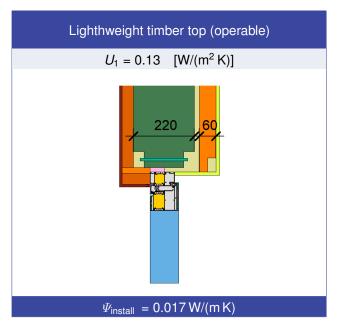


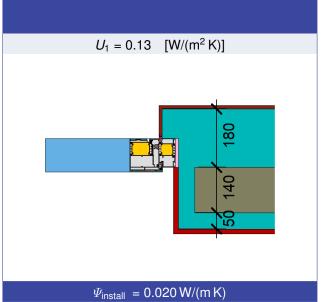
#### Validated installations



5/8 Viewmax door







7/8 Viewmax door

