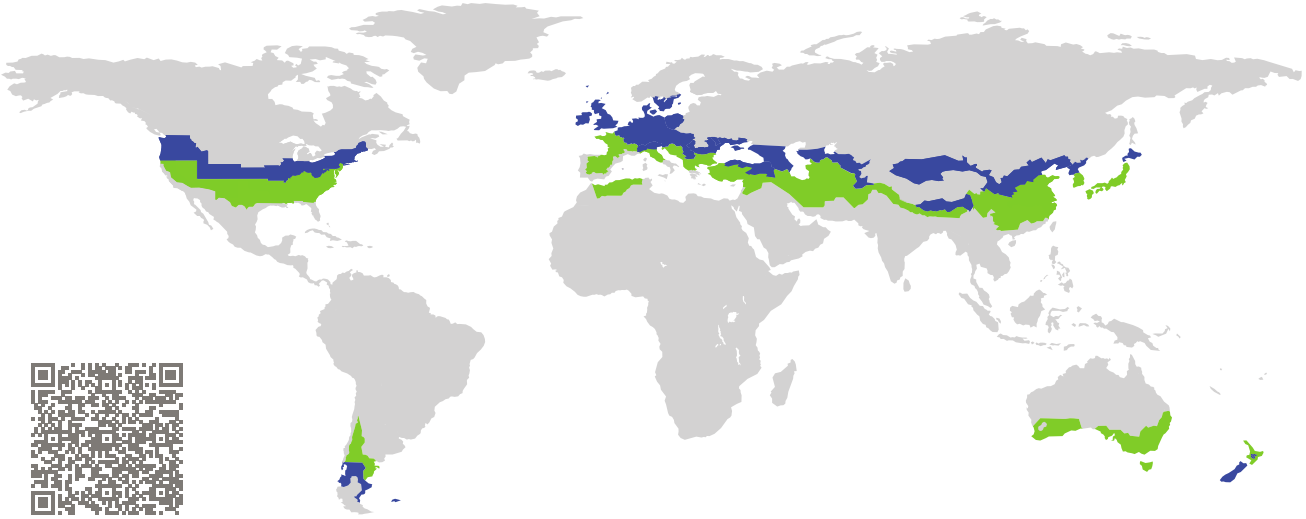
CERTIFICATE

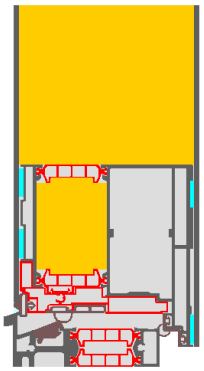
Certified Passive House Component

Component-ID 1252ds03 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category:	**Door system**
Manufacturer:	**ViewMax Windows and Doors Co., Ltd Yanggu China**
Product name:	**Viewmax door**



(Inward opening)

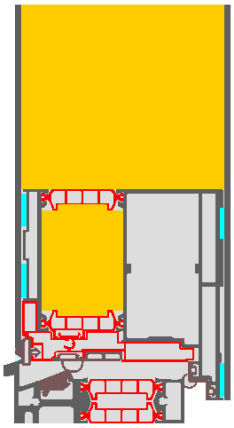
This certificate was awarded based on the following criteria for the cool, temperate climate zone

Comfort	U_D= 0.75	≤	0.80 W/(m² K)
	$U_{D,\text{installed}}$	≤	0.85 W/(m² K)
	with $U_{\text{door leaf}}$ [1]	=	0.33 W/(m² K)
Hygiene	$f_{Rsi=0.25}$	≥	0.70

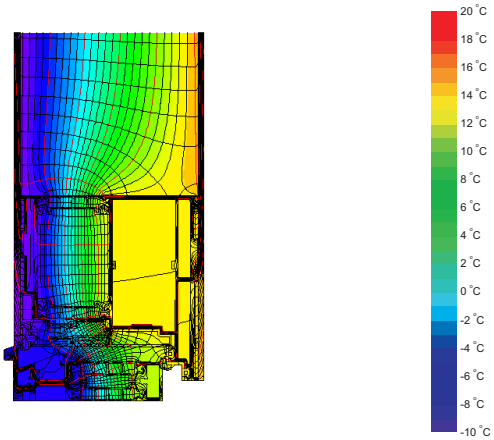
[1] U-value of the insulated area of door leaf

cool, temperate climate

CERTIFIED COMPONENT
Passive House Institute



Calculation model



Isothermal

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.

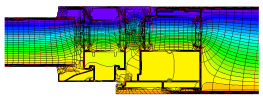
Further information relating to certification
can be found on www.passivehouse.com and passipedia.org.

Frame values		Frame width b_f mm	U-value frame U_f W/(m² K)	Ψ edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Mullion 1 casement	(1M1)	174	1.53	0.018	0.77
Door hinge side	(DJ1)	140	1.43	0.013	0.74
Door lock side	(DL1)	140	1.42	0.013	0.75
Bottom fixed	(FB1)	80	1.31	0.006	0.80
Top fixed	(FH1)	80	1.31	0.006	0.80
Lateral fixed	(FJ1)	80	1.31	0.006	0.80
Top	(OH1)	140	1.43	0.013	0.74
Threshold	(OT2)	112	1.77	0.015	0.71

Spacer: Secondary seal:

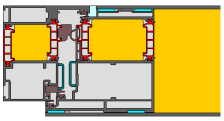
Mullion
1 casement

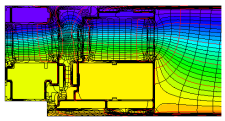
b_f = 174 mm
U_f = 1.53 W/(m² K)
Ψ_g = 0.018 W/(m K)
f_{Rsi} = 0.77



Door
hinge side

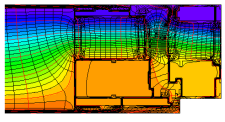
b_f = 140 mm
U_f = 1.43 W/(m² K)
Ψ_g = 0.013 W/(m K)
f_{Rsi} = 0.74





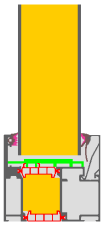
Door
lock side

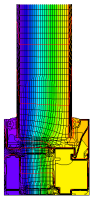
b_f = 140 mm
U_f = 1.42 W/(m² K)
Ψ_g = 0.013 W/(m K)
f_{Rsi} = 0.75



Bottom
fixed

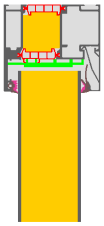
b_f = 80 mm
U_f = 1.31 W/(m² K)
Ψ_g = 0.006 W/(m K)
f_{Rsi} = 0.80

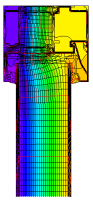




Top
fixed

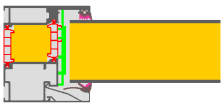
b_f = 80 mm
U_f = 1.31 W/(m² K)
Ψ_g = 0.006 W/(m K)
f_{Rsi} = 0.80

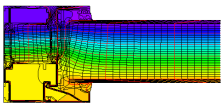




Lateral
fixed

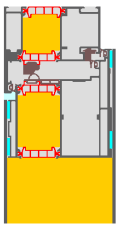
b_f = 80 mm
U_f = 1.31 W/(m² K)
Ψ_g = 0.006 W/(m K)
f_{Rsi} = 0.80

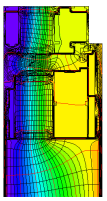




Top

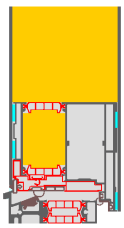
b_f = 140 mm
U_f = 1.43 W/(m² K)
Ψ_g = 0.013 W/(m K)
f_{Rsi} = 0.74

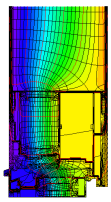




Threshold

b_f = 112 mm
U_f = 1.77 W/(m² K)
Ψ_g = 0.015 W/(m K)
f_{Rsi} = 0.71

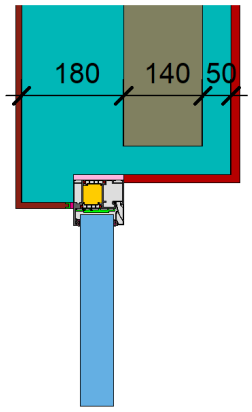




Validated installations

Formwork blocks top (fixed)

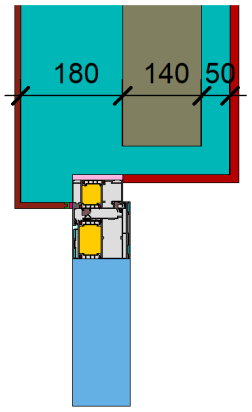
U_1 = 0.15 [W/(m² K)]



$\Psi_{install}$ = 0.02 W/(m K)

Formwork blocks top (operable)

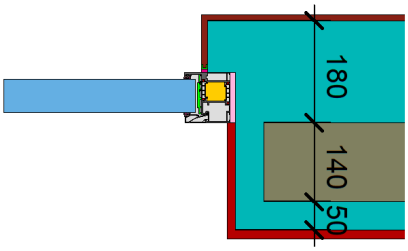
U_1 = 0.15 [W/(m² K)]



$\Psi_{install}$ = 0.02 W/(m K)

Formwork blocks side (fixed)

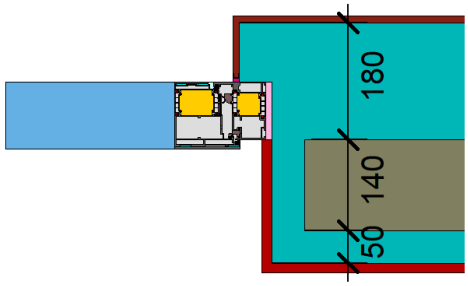
U_1 = 0.15 [W/(m² K)]



$\Psi_{install}$ = 0.02 W/(m K)

Formwork blocks side (operable)

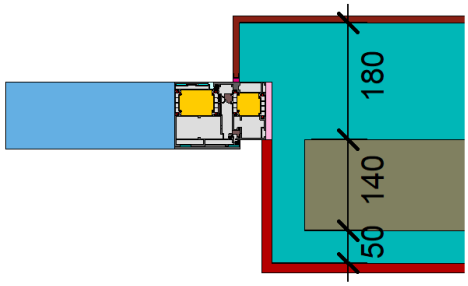
U_1 = 0.15 [W/(m² K)]



$\Psi_{install}$ = 0.02 W/(m K)

Formwork blocks side (operable)

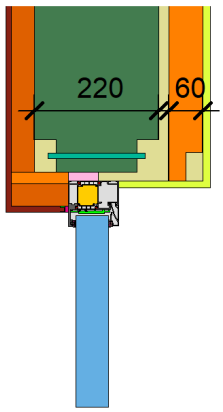
U_1 = 0.13 [W/(m² K)]



$\Psi_{install}$ = 0.02 W/(m K)

Lighthweight timber top (fixed glazed)

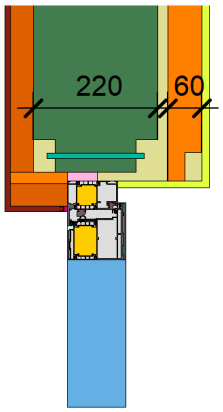
U_1 = 0.13 [W/(m² K)]



$\Psi_{install}$ = 0.02 W/(m K)

Lighthweight timber top (operable)

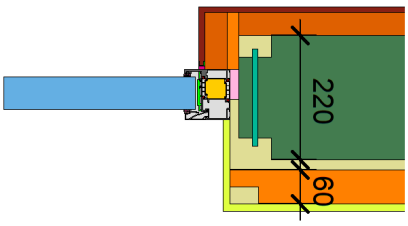
U_1 = 0.13 [W/(m² K)]



$\Psi_{install}$ = 0.02 W/(m K)

Lighthweight timber side (fixed glazed)

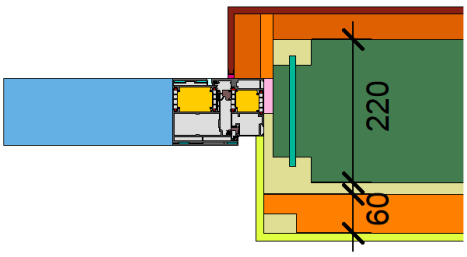
U_1 = 0.13 [W/(m² K)]



$\Psi_{install}$ = 0.02 W/(m K)

Lighthweight timber side (operable)

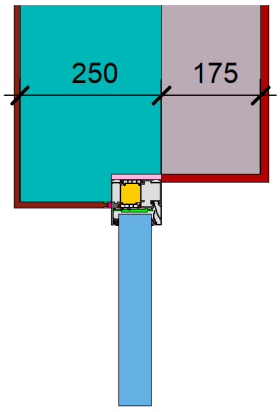
U_1 = 0.13 [W/(m² K)]



$\Psi_{install}$ = 0.02 W/(m K)

Exterior insulation and finishing s (EIFS) top (fixed glazing))

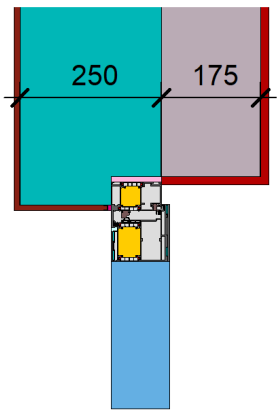
U_1 = 0.13 [W/(m² K)]



$\Psi_{install}$ = 0.02 W/(m K)

Exterior insulation and finishing s (EIFS) top (operable)

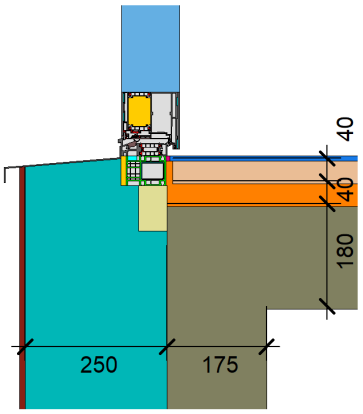
U_1 = 0.13 [W/(m² K)]



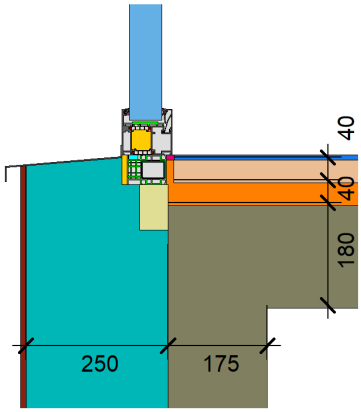
$\Psi_{install}$ = 0.02 W/(m K)

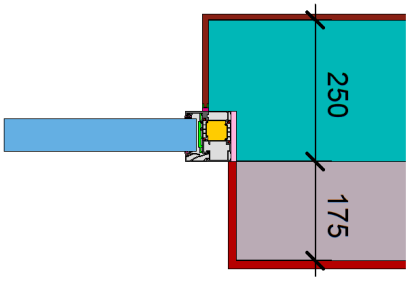
Ext insulation a. finish. s. (EIFS) threshold ceiling (operable)

U_1 = 0.13 [W/(m² K)]



$\Psi_{install}$ = 0.08 W/(m K)

Ext insulation a. finish. s. (EIFS) threshold ceiling (fixed gl)
U_1 = 0.13 [W/(m² K)]

$\Psi_{install}$ = 0.07 W/(m K)

Exterior insulation and finishing s (EIFS) side (fixed glazed)
U_1 = 0.13 [W/(m² K)]

$\Psi_{install}$ = 0.02 W/(m K)