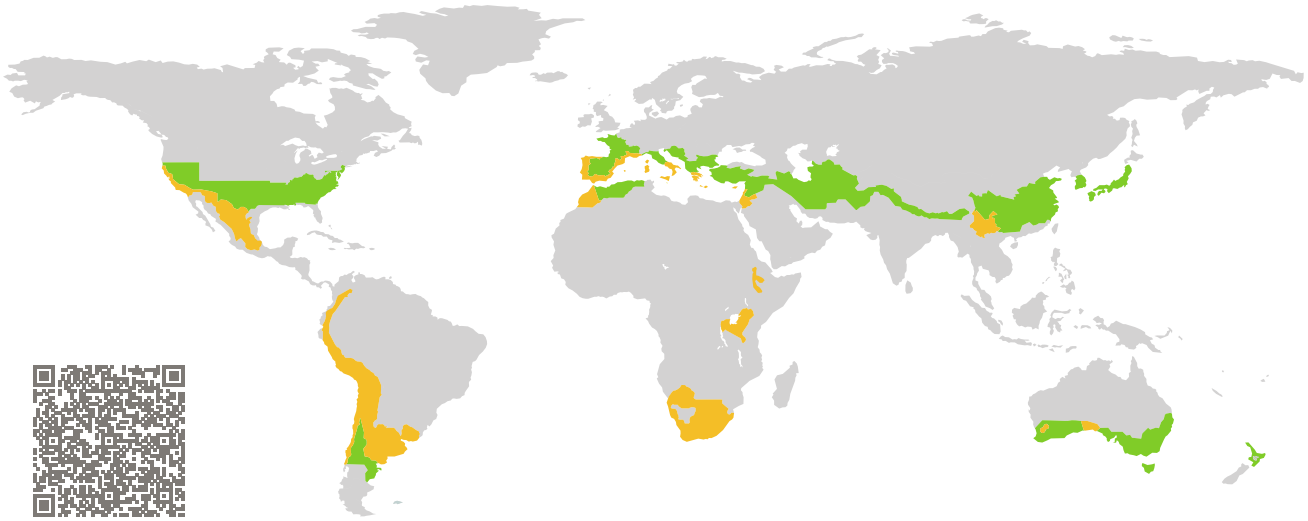
CERTIFICATE

Certified Passive House Component

Component-ID 1628cw04 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

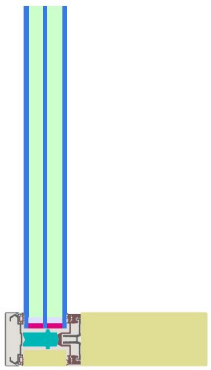


Category: **Curtain Wall**

Manufacturer: **Qingdao Jerdvin Household Co. Ltd, Qingdao, China**

Product name: **200MQ**

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



Comfort	U_{CW}= 1.00	≤	1.00 W/(m² K)
	$U_{CW,installed}$	≤	1.05 W/(m² K)
	with U_g	=	0.90 W/(m² K)
Hygiene	$f_{Rsi=0.25}$	≥	0.65

warm, temperate climate

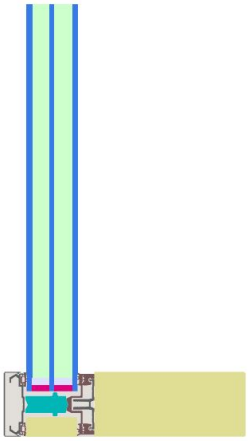
phA

CERTIFIED COMPONENT

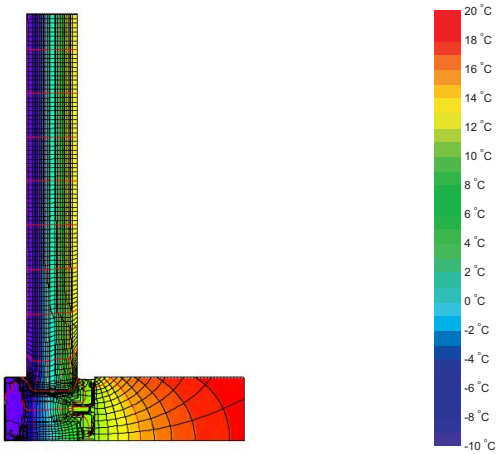
Passive House Institute

Passive House efficiency class	phE	phD	phC	phB	phA

www.passivehouse.com



Calculation model



Isothermal

Description

Timber construction (Russian pine wood 0.13 W/(mK)), aluminium covering and pressure plate. Insulation in the glazing rebate (0.035 W/(mK)). Plastic glass carier fixed with stainless steel screws. Pane thickness: 47 mm (5/16/5/16/5), rebate depth: 16 mm. Spacer: SWISSPACER Ultimate with silicone secondary seal.

Explanation

The element U-values were calculated for the test element size of 1.20 m × 2.50 m with U_g = 0.90 W/(m² K). If a higher quality glazing is used, the element U-values will improve as follows:

Glazing	U_g =	0.90	0.84	0.78	0.70	W/(m² K)
		↓	↓	↓	↓	
Element	U_{CW}	1.00	0.94	0.89	0.81	W/(m² K)

Transparent building components are sorted 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.

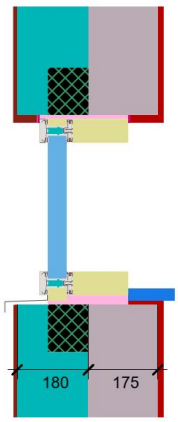
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components that have been certified for climate zones with higher thermal requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense to use a component of a higher thermal quality which has been certified for a climate zone with more stringent requirements.

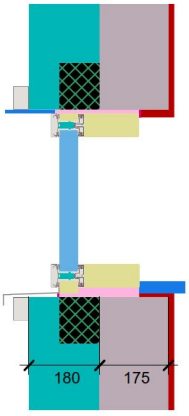
Further information relating to certification
can be found on www.passivehouse.com and passipedia.org.

Frame values		Frame width b_f mm	U-value frame U_f [1] W/(m² K)	Ψ-glazing edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Mullion fixed	(0M1)	60	1.01	0.037	0.71
Transom fixed	(0T1)	60	1.01	0.037	0.71
Bottom fixed	(FB1)	60	1.24	0.032	0.67
Top fixed	(FH1)	60	1.24	0.032	0.67
Lateral fixed	(FJ1)	60	1.24	0.032	0.67
Spacer: SWISSPACER Ultimate			Secondary seal: Silicone		

Thermal glass carrier bridge[2] χ_{GT} = 0.004 W/K

Validated installations

Ventilated facade (fixed glazing)	
U_{Wall} = 0.18 W/(m² K)	
	
$\Psi_{install}$	W/(m K)
Top	0.017
Left	0.007
Right	0.007
Bottom	0.031
$U_{W,installed}$ = 1.03 W/(m² K)	

Exterior insulation and finishing system (EIFS) (fixed glazed)	
U_{Wall} = 0.18 W/(m² K)	
	
$\Psi_{install}$	W/(m K)
Top	0.015
Left	0.006
Right	0.006
Bottom	0.032
$U_{W,installed}$ = 1.03 W/(m² K)	

[1] Includes ΔU = 0.30 W/(m² K). Standard value
[2] Standard value. Glass carrier type: Non-metallic glass carrier with screws