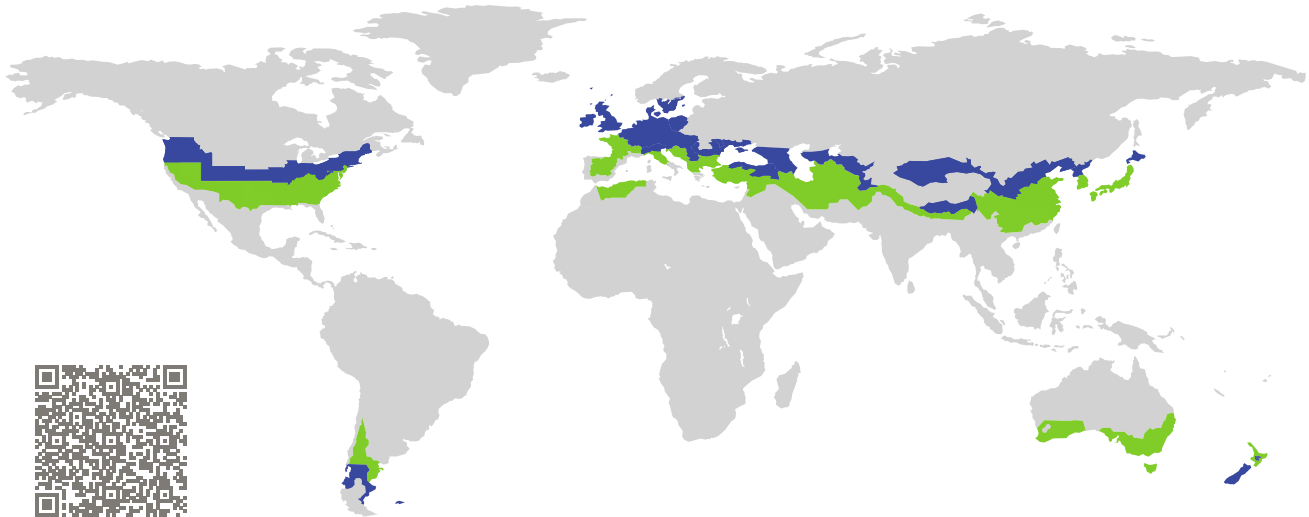


CERTIFICATE

Certified Passive House Component

Component-ID 0786wi03 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

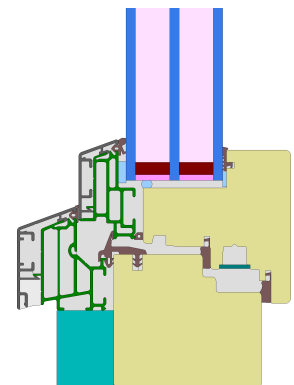


Category: **Window Frame**
Manufacturer: **Qingdao Jerdvin Household Co. Ltd,
Qingdao,
China**
Product name: **Passive-Ha130**

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

Comfort $U_W = 0.78 \leq 0.80 \text{ W}/(\text{m}^2 \text{ K})$
 $U_{W, \text{installed}} \leq 0.85 \text{ W}/(\text{m}^2 \text{ K})$
with $U_g = 0.70 \text{ W}/(\text{m}^2 \text{ K})$

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



Passive House
efficiency class

phE

phD

phC

phB

phA

www.passivehouse.com

cool, temperate climate

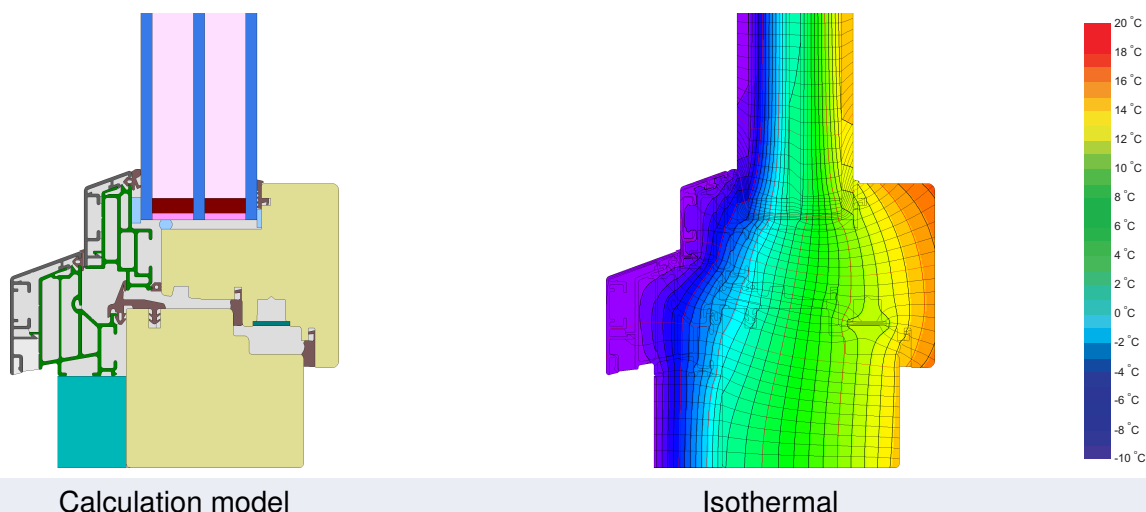


ph B



**CERTIFIED
COMPONENT**

Passive House Institute



Description

Timber frame with external shell made of ABS, insulation (0,035 W/(m²K)) and aluminium. Pane thickness: 51 mm (5/18/5/18/5), rebate depth: 20/25 mm, spacer: SWISSPACER Ultimate

Explanation

The window U-values were calculated for the test window size of 1.23 m × 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:

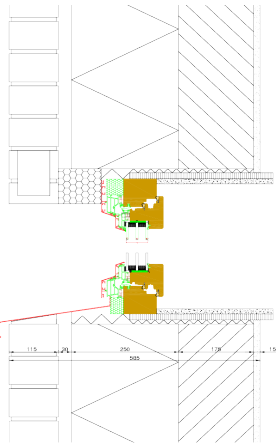
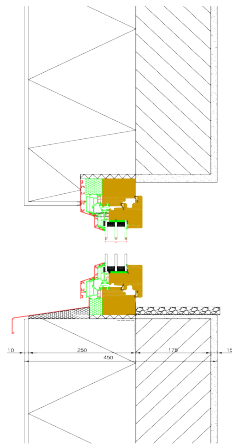
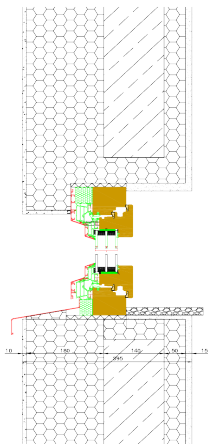
Glazing	$U_g =$	0.70	0.64	0.58	0.52	W/(m² K)
		↓	↓	↓	↓	
Window	$U_W =$	0.78	0.74	0.71	0.67	W/(m² K)





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.

Validated installations

Cavity wall (operable)	Exterior insulation and finishing system (EIFS) (operable)	Formwork blocks (operable)
		
Ψ_{install} W/(m K)	Ψ_{install} W/(m K)	Ψ_{install} W/(m K)
Top 0.009	Top 0.008	Top 0.008
Side 0.009	Side 0.008	Side 0.008
Bottom 0.009	Bottom 0.009	Bottom 0.010
$U_{W,\text{installed}} = 0.81 \text{ W/(m}^2 \text{ K)}$	$U_{W,\text{installed}} = 0.81 \text{ W/(m}^2 \text{ K)}$	$U_{W,\text{installed}} = 0.81 \text{ W/(m}^2 \text{ K)}$

Frame values		Frame width b_f mm	U -value frame U_f W/(m ² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Flying Mul- lion	(FM1) 	147	0.88	0.025	0.75
Bottom	(OB1) 	131	0.79	0.025	0.75
Top	(OH1) 	131	0.76	0.025	0.75
Lateral	(OJ1) 	131	0.76	0.025	0.75
Spacer: SWISSPACER Ultimate			Secondary seal: Polysulfide		

