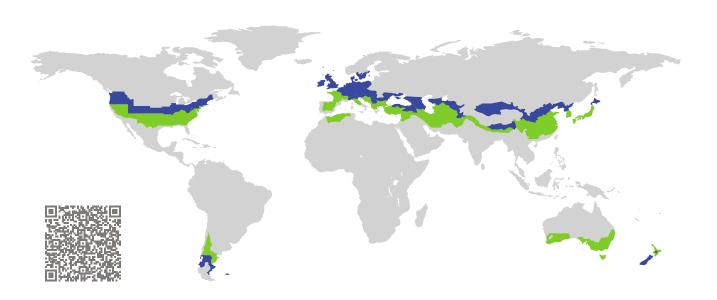
CERTIFICATE

Certified Passive House Component

Component-ID 1257ed03 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Entry door

Manufacturer: Cascadia Windows & Doors

Langley, BC Canada

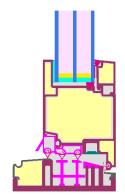
Product name: Cascadia Door PH

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

Comfort U_D = 0.78 \leq 0.80 W/(m² K)

 $U_{D,\text{installed}} \leq 0.85 \,\text{W/(m}^2 \,\text{K)}$ with $U_g^1 = 0.70 \,\text{W/(m}^2 \,\text{K)}$

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



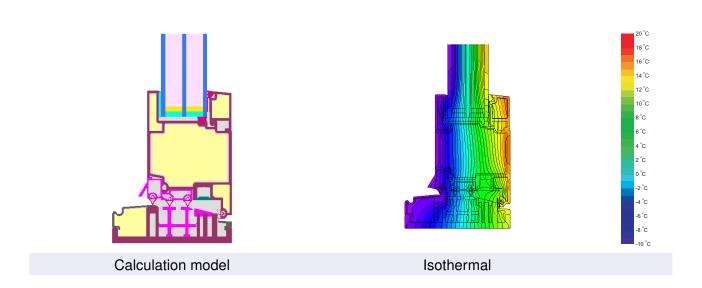
(Inward opening)

¹Fully glazed door



#101 - 5350B 275th Street, V4W 0C1 Langley, BC, Canada

🕿 1-604-857-4600 | 🖂 info@cascadiawindows.com | 🖆 http://www.cascadiawindows.com |



Description

Fiberglass frame, insulated by Resolic foam (0.023 W/(mK)).

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 values			Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U_f</i> W/(m ² K)	Ψ edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Door hinge side	(DJ1)	11-	132	0.79	0.022	0.75
Door lock side	(DL1)		132	0.79	0.022	0.75
Тор	(OH1)	f	132	0.79	0.022	0.75
Threshold	(OT2)	1	146	0.87	0.022	0.71

Spacer: Super Spacer Premium

Secondary seal: Butyl



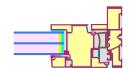
Door hinge side

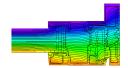
 $b_f = 132 \, \text{mm}$

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

 $\Psi_g = 0.022\,\mathrm{W/(m\,K)}$

 $f_{Rsi} = 0.75$







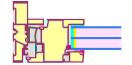
Door lock side

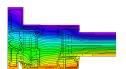
 $b_f = 132 \, \text{mm}$

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

 $\Psi_g = 0.022 \, \text{W/(m K)}$

 $f_{Rsi}=0.75$







Top

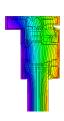
 $b_f = 132 \, \text{mm}$

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

 $\Psi_g = 0.022 \, \text{W/(m K)}$

 $f_{Rsi} = 0.75$







Threshold

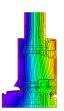
 $b_f = 146 \, \text{mm}$

 $U_f = 0.87 \, \text{W/(m}^2 \, \text{K)}$

 $\Psi_g = 0.022 \, \text{W/(m K)}$

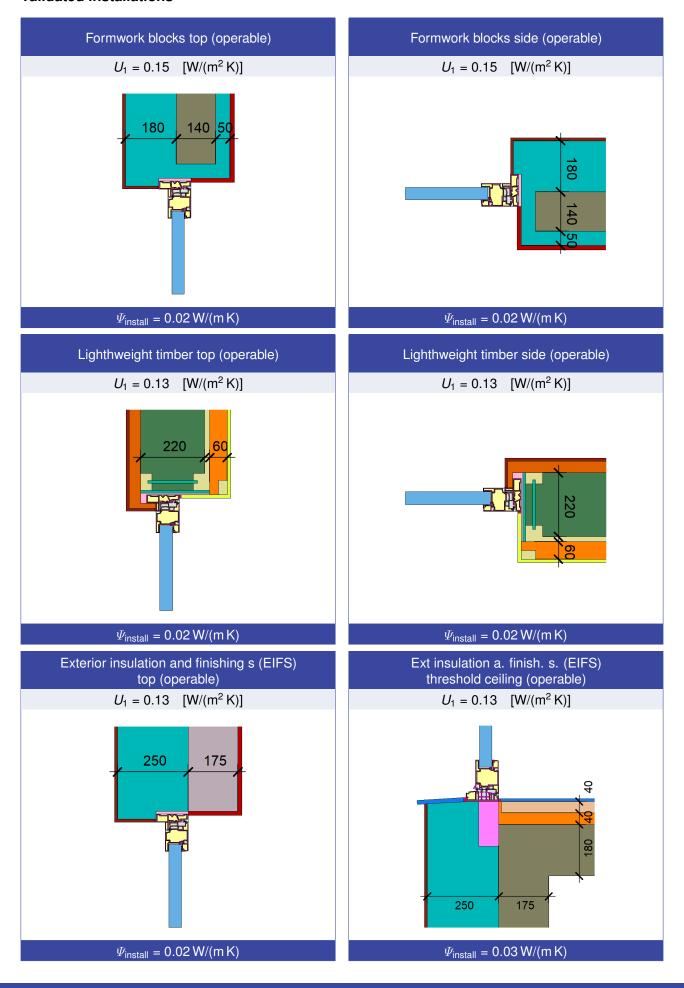
 $f_{Rsi} = 0.71$





3/7 Cascadia Door PH

Validated installations



5/7 Cascadia Door PH

