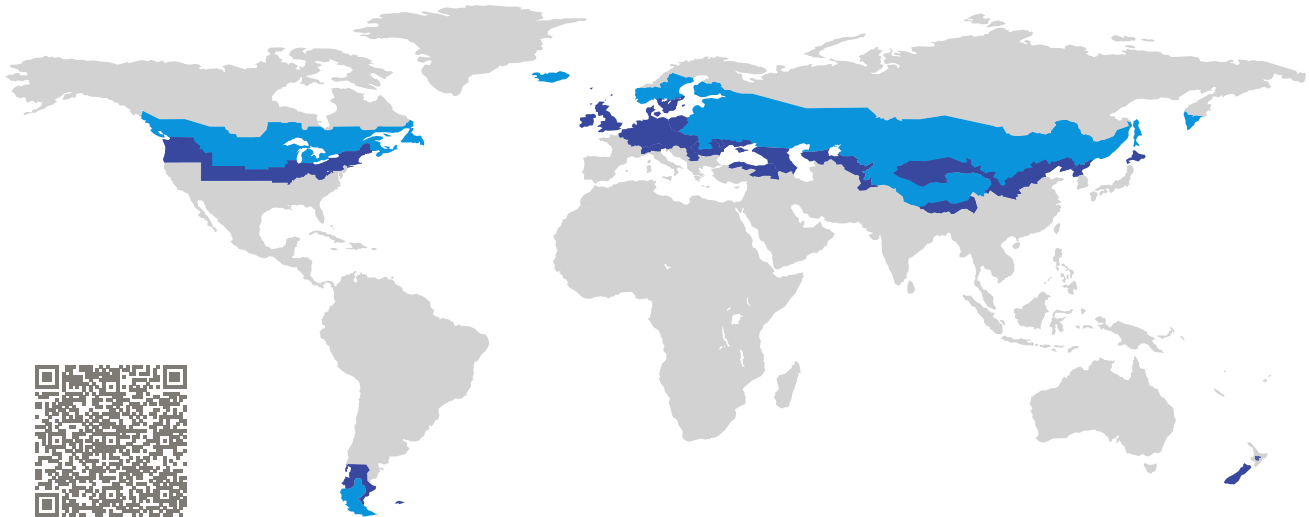


CERTIFICATE

Certified Passive House Component

Component-ID 2350wi02 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

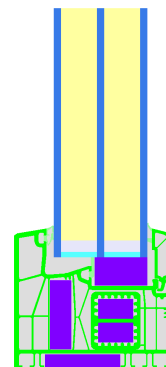


Category: **Fixed window**
Manufacturer: **NZP Fenestration,
Longueuil,
Canada**
Product name: **PassivCanada Cold fixed**

**This certificate was awarded based on the following
criteria for the cold climate zone**

Comfort $U_W = 0.59 \leq 0.60 \text{ W}/(\text{m}^2 \text{ K})$
 $U_{W,\text{installed}} \leq 0.65 \text{ W}/(\text{m}^2 \text{ K})$
with $U_g = 0.52 \text{ W}/(\text{m}^2 \text{ K})$

Hygiene $f_{Rsi=0.25} \geq 0.75$



Passive House
efficiency class

phE

phD

phC

phB

phA

www.passivehouse.com

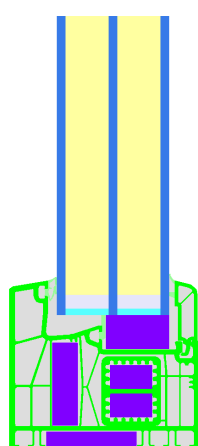
cold climate



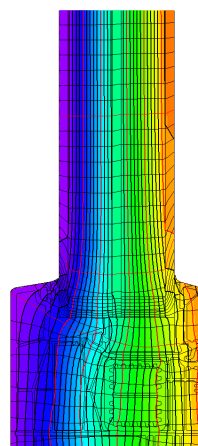
phA

**CERTIFIED
COMPONENT**

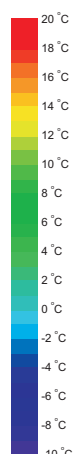
Passive House Institute



Calculation model



Isothermal



Description

PVC frame with Neopor insulation (0.032 W/(m.K)) inside the cavities. Secondary seal in accordance with supplier data sheet, max. size 2.00 m × 2.00 m, with a minimum length of 25 cm. The U_f -value of the sill section contains a surcharge for the simulated impact of the glazing support. Secondary sealant in accordance to technical documents

Explanation

The window U-values were calculated for the test window size of 1.23 m × 1.48 m with $U_g = 0.52$ W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

Glazing	$U_g =$	0.52	0.64	0.58	0.38	W/(m ² K)
		↓	↓	↓	↓	
Window	$U_W =$	0.59	0.69	0.64	0.48	W/(m ² 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

[illegible]

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 $f_{Rsi=0.25}$ [-]
Mullion fixed	(0M1)		98	0.58	0.019	0.79
Bottom fixed	(FB1)		78	0.64	0.019	0.79
Top fixed	(FH1)		78	0.62	0.019	0.79
Lateral fixed	(FJ1)		78	0.62	0.019	0.79
Spacer: Swisspacer Ultimate				Secondary seal: Hotmelt Butyl		

