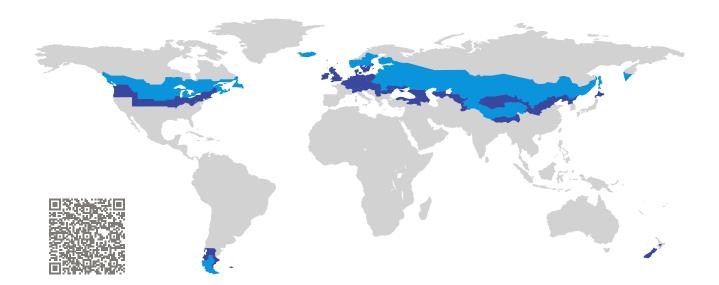
CERTIFICATE

Certified Passive House Component

Component-ID 2385wi02 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

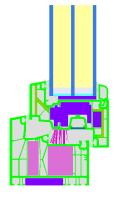


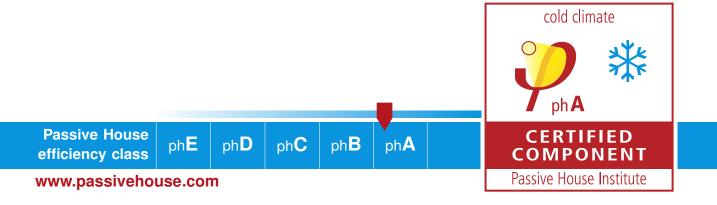
Category:	Window Frame
Manufacturer:	NZP Fenestration,
	Longueuil,
	Canada
Product name:	PassivCanada Cold operable

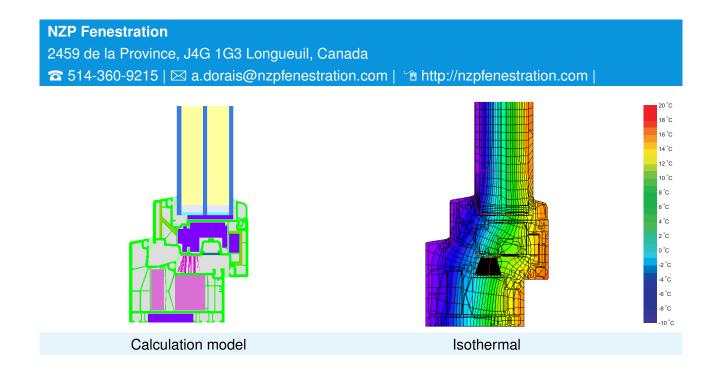
This certificate was awarded based on the following criteria for the cold climate zone

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

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







Description

PVC frame with Neopor (0.032 W/(m.K)) and aerogel insulation (0,016W/(m.K)) inside the cavities. Secondary seal in accordance with supplier data sheet, max. size 1.30 m x 1.70 m (white) or up to 1.00 m width in standard colors (see static table) in technical documents. Pane thickness: 52 mm (4/20/4/20/4), rebate depth: 14 mm.

Explanation

The window U-values were calculated for the test window size of 1.23 m \times 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)
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	0.60	0.69	0.65	0.51	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

Lightweight timber (operable)		Solid timber (operable)		Exterior insulation and finishing system (EIFS) (operable)	
$U_{\text{Wall}} = 0.10 \text{ W/(m^2 \text{ K})}$		$U_{Wall} = 0.10 \text{ W}/(\text{m}^2 \text{ K})$		$U_{Wall} = 0.11 \text{ W}/(\text{m}^2 \text{ K})$	
			<pre>Main for the second secon</pre>		A set of the set of th
$\Psi_{install}$	W/(mK)	$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)
Тор	0.015	Тор	0.020	Тор	0.014
Side	0.016	Side	0.013	Side	0.014
Bottom	0.020	Bottom	0.019	Bottom	0.017
$U_{W,\text{installed}} = 0.$	65 W/(m ² K)	U _{W,installed} =	= 0.65 W/(m ² K)	U _{W,installed} =	= 0.65 W/(m ² K)

Frame values	3		Frame width <i>b</i> f mm	<i>U</i> -value frame <i>U</i> f W/(m² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Mullion 2 casements	(2M1)	-1-	174	0.71	0.019	0.83
Flying Mul- lion	(FM1)	1	136	0.66	0.019	0.79
Bottom	(OB1)	4	116	0.64	0.019	0.80
Тор	(OH1)	T.	116	0.64	0.019	0.80
Lateral	(OJ1)	1 -	116	0.64	0.019	0.80
	S	pacer: S	WISSPACER ULTIN	IATE	Secondary seal: Buty	

www.passivehouse.com