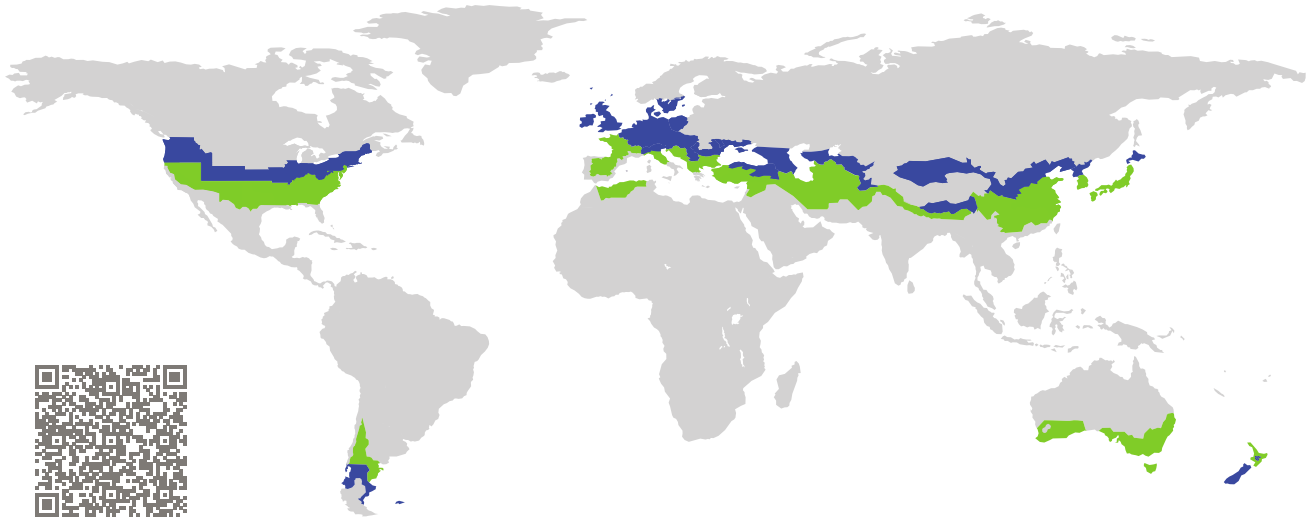


CERTIFICATE

Certified Passive House Component

Component-ID 2465wi03 valid until 31st December 2026

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

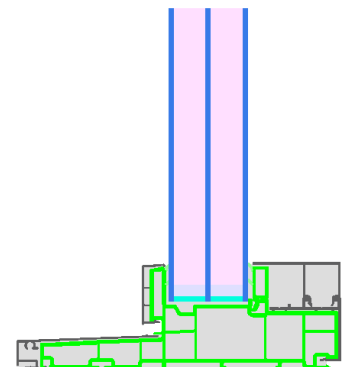


Category: **Fixed window**
Manufacturer: **Isothermic Portes et fenêtres,
Thetford Mines,
Canada**
Product name: **Série 2 Fixed H2**

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

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

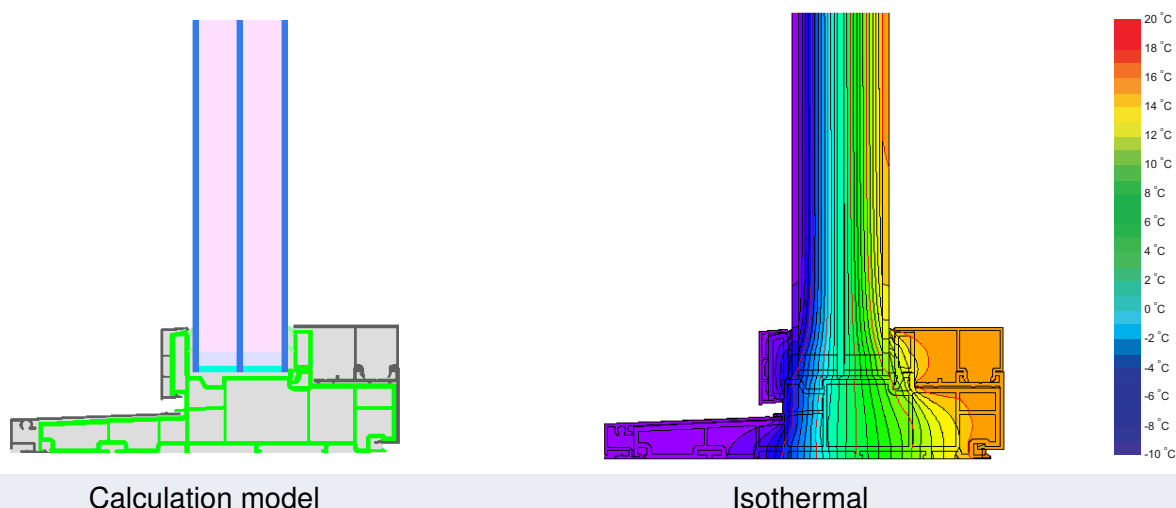
cool, temperate climate



**CERTIFIED
COMPONENT**

Passive House Institute

www.passivehouse.com



Description

Vinyl frame with aluminium cladding on the inside and the outside. Maximum dimensions according to manufacturer's specifications. Pane thickness: 44 mm (3/17,5/3/17,5/3), rebate depth: 20 mm.

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	0.54	W/(m ² K)
		↓	↓	↓	↓	
Window	$U_W =$	0.80	0.75	0.70	0.67	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.

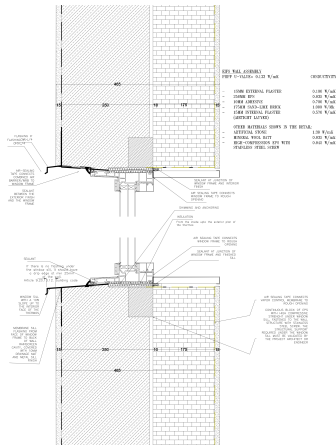
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

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)		115	1.06	0.017	0.74
Transom fixed	(0T1)		115	1.06	0.017	0.74
Bottom fixed	(FB1)		57	1.03	0.017	0.76
Top fixed	(FH1)		57	1.03	0.017	0.76
Lateral fixed	(FJ1)		57	1.03	0.017	0.76
Spacer: Swisspacer Ultimate				Secondary seal: Butyl		

Validated installations

Exterior insulation and finishing system (EIFS) (fixed glazed)

$$U_{\text{Wall}} = 0.13 \text{ W/(m}^2 \text{ K)}$$

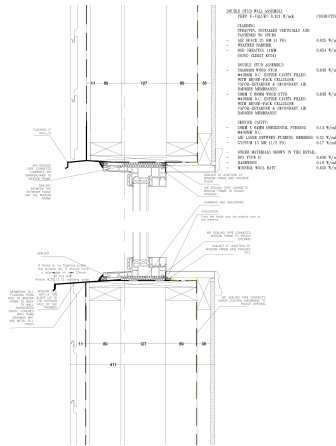


Ψ_{install}	W/(m K)
Top	0.011
Side	0.011
Bottom	0.013

$$U_{W,\text{installed}} = 0.83 \text{ W/(m}^2 \text{ K)}$$

Lightweight timber (fixed glazed)

$$U_{\text{Wall}} = 0.12 \text{ W/(m}^2 \text{ K)}$$

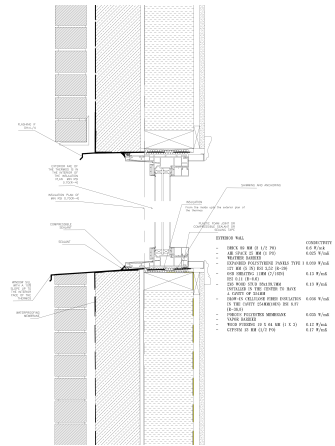


Ψ_{install}	W/(m K)
Top	0.015
Side	0.015
Bottom	0.016

$$U_{W,\text{installed}} = 0.84 \text{ W/(m}^2 \text{ K)}$$

Solid timber (fixed glazed)

$$U_{\text{Wall}} = 0.14 \text{ W/(m}^2 \text{ K)}$$

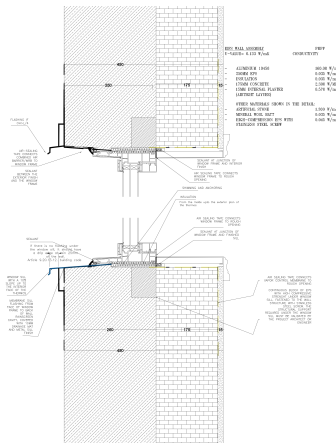


Ψ_{install}	W/(m K)
Top	0.024
Side	0.024
Bottom	0.024

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

Ventilated facade (fixed glazed)

$$U_{\text{Wall}} = 0.13 \text{ W/(m}^2 \text{ K)}$$



Ψ_{install}	W/(m K)
Top	0.011
Side	0.011
Bottom	0.013

$$U_{W,\text{installed}} = 0.83 \text{ W/(m}^2 \text{ K)}$$

