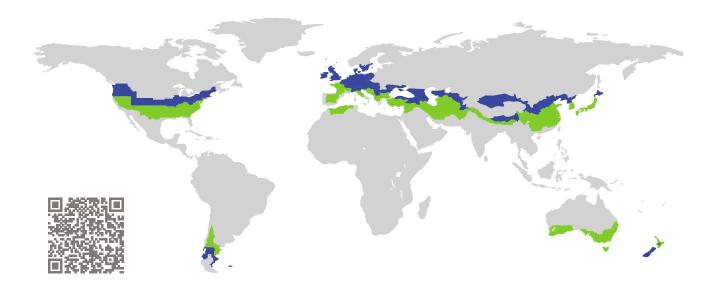
CERTIFICATE

Certified Passive House Component Component-ID 2409wi03 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

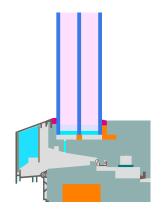


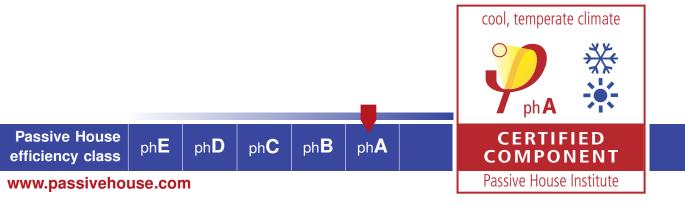
Category:	Window Frame
Manufacturer:	i2 Factory, Salaspils district, Latvia
Product name:	sw i2

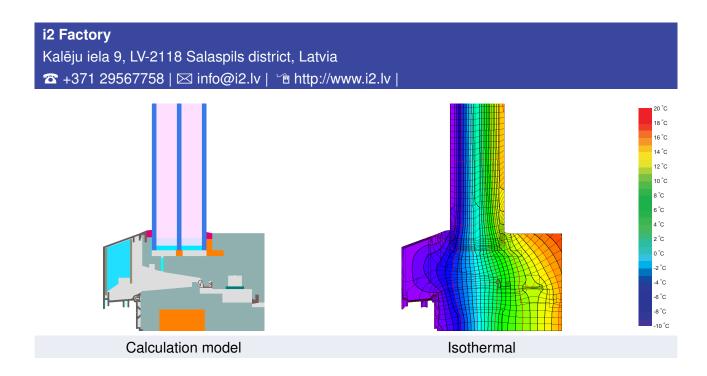
This certificate was awarded based on the following criteria for the cool, temperate climate zone

Comfort	$U_W = 0.77$	\leq	0.80 W/(m ² K)
	$U_{W,\text{installed}}$	\leq	0.85 W/(m ² K)
	with U_g	=	0.70 W/(m ² K)

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







Description

Aluminum-clad timber frame (Spruce/Fir, 0.11 W/(mK)), identical to smartwin, insulated by low-density wood-fibre board (0,05 & 0,04 W/(mK)) & PU insulation (0,03 W/(mK)). Pane thickness: 48 mm (4/18/4/18/4), rebate depth: 15 mm. Spacer: SWISSPACER Ultimate with polyurethane as secondary seal.

Explanation

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

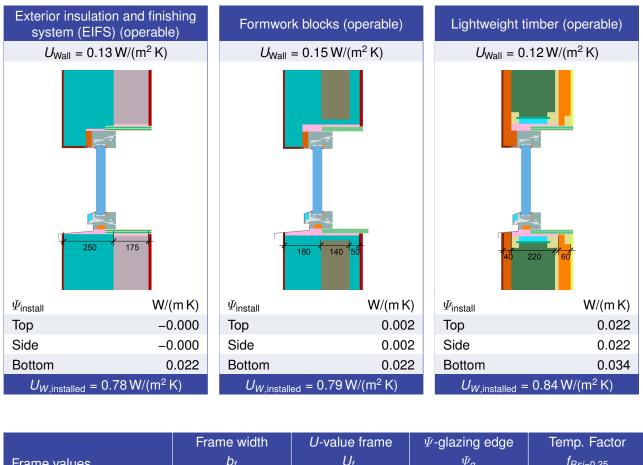
Glazing	$U_g =$	0.70	0.64	0.58	0.52	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	0.77	0.72	0.68	0.63	W/(m ² K)

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



Frame value	s		Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U</i> f W/(m ² K)	$arPsi$ -glazing edge $arPsi_g$ W/(m K)	Temp. Factor <i>f_{Rsi=0.25}</i> [-]
Mullion 2 casements	(2M1)	-1-	142	0.75	0.022	0.74
Flying Mullion	(FM1)	1	110	0.73	0.022	0.73
Bottom	(OB1)		86	0.88	0.022	0.71
Head	(OH1)	T.	86	0.70	0.022	0.74
Jamb	(OJ1)	<u>11</u>	86	0.70	0.022	0.74
Spacer: SWISSPACER Ultimate				Secor	ndary seal: Polyureth	an

www.passivehouse.com