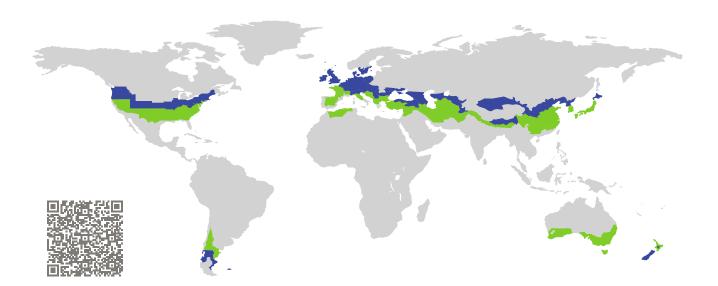
CERTIFICATE

Certified Passive House Component Component-ID 1163wi03 valid until 31st December 2025

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

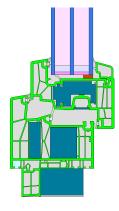


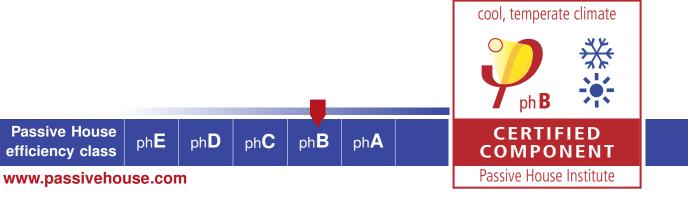
Category:	Window Frame
Manufacturer:	profine GmbH,
	Pirmasens, Rheinland-Pfalz,
	Germany
Product name:	KÖMMERLING 88 Mitteldichtung

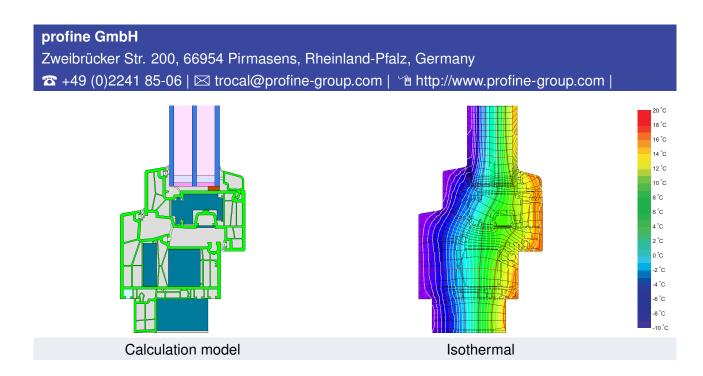
This certificate was awarded based on the following criteria for the cool, temperate climate zone

Comfort	$U_W = 0.78$	\leq	0.80 W/(m ² K)
	$U_{W,\text{installed}}$	\leq	0.85 W/(m ² K)
	with U_g	=	$0.70 W/(m^2 K)$

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







Description

Window frame made of rigid PVC profiles, sash with rebate base bond, PS insulator with 0.031W/(m²K), glazing 44 mm (4/16/4/16/4), spacer: SWISSPACER Ultimate. The window frames with the brand names "KBE 88 centre seal system" and "TROCAL 88 centre seal system" are identical in construction to the certified window frame.

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	0.53	$W/(m^2 K)$
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	0.78	0.74	0.70	0.67	W/(m ² K)

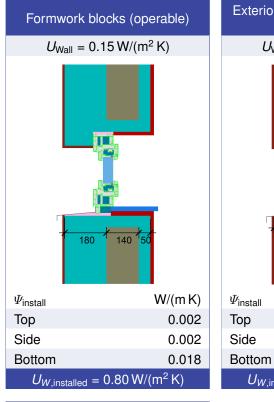
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations performed in the context of certification is available from the manufacturer.

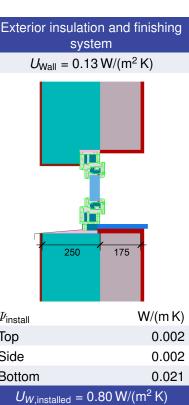
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense to use a component of a higher thermal quality which has been certified for a climate zone with more stringent requirements.

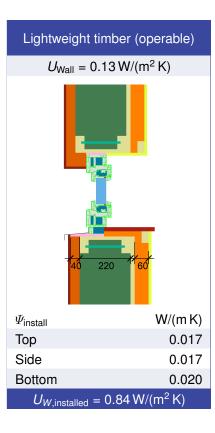
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

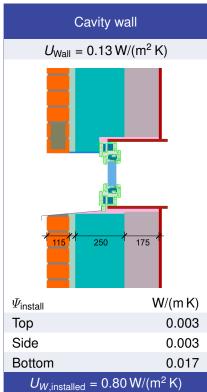
Frame values	S		Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U</i> f W/(m ² K)	$arPsi$ -glazing edge $arPsi_g$ W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Flying Mul- lion	(FM1)	1	154	0.85	0.024	0.72
Bottom	(OB1)	4	146	0.74	0.025	0.74
Тор	(OH1)	T	116	0.78	0.025	0.74
Lateral	(OJ1)	<u>11</u>	116	0.78	0.025	0.74
Threshold	(OT1)	4	146	0.74	0.025	0.74
	Spa	acer: SW	ISSPACER Ultimate	e Seco	ndary seal: Polysulfic	de

Validated installations









www.passivehouse.com