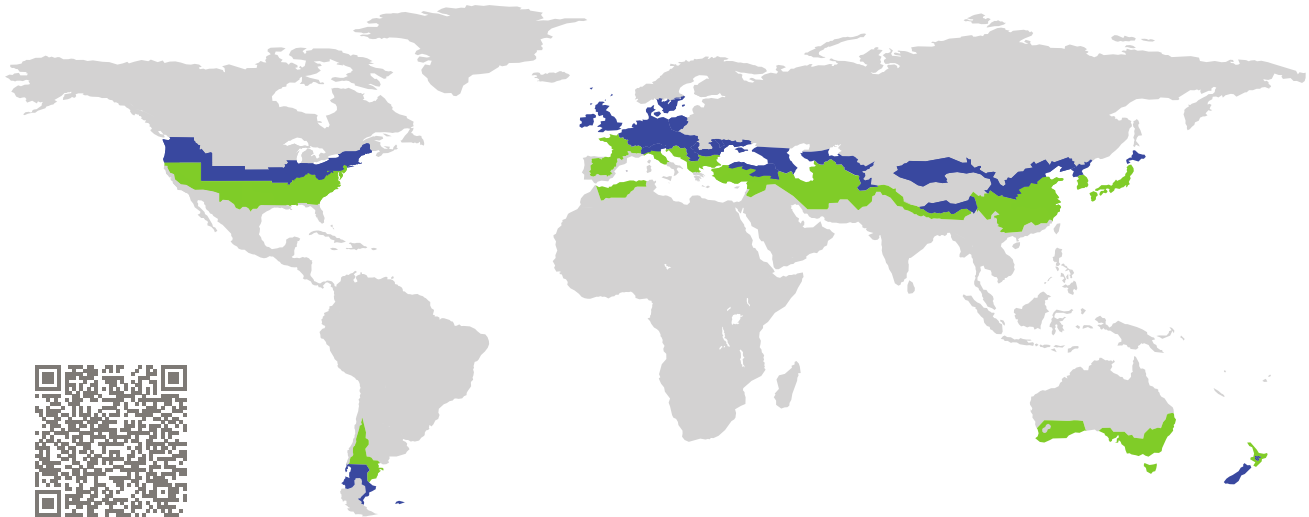


# CERTIFICATE

Certified Passive House Component

Component-ID 1374wi03 valid until 31st December 2019

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
Germany

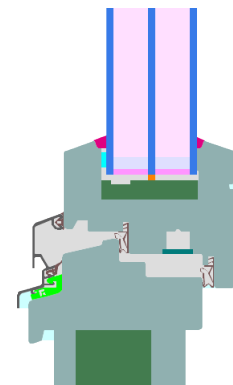


Category: **Window Frame**  
Manufacturer: **PRAŽÁK s. r. o.,  
Milotice u Kyjova,  
Czech Rep.**  
Product name: **IV 92**

**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

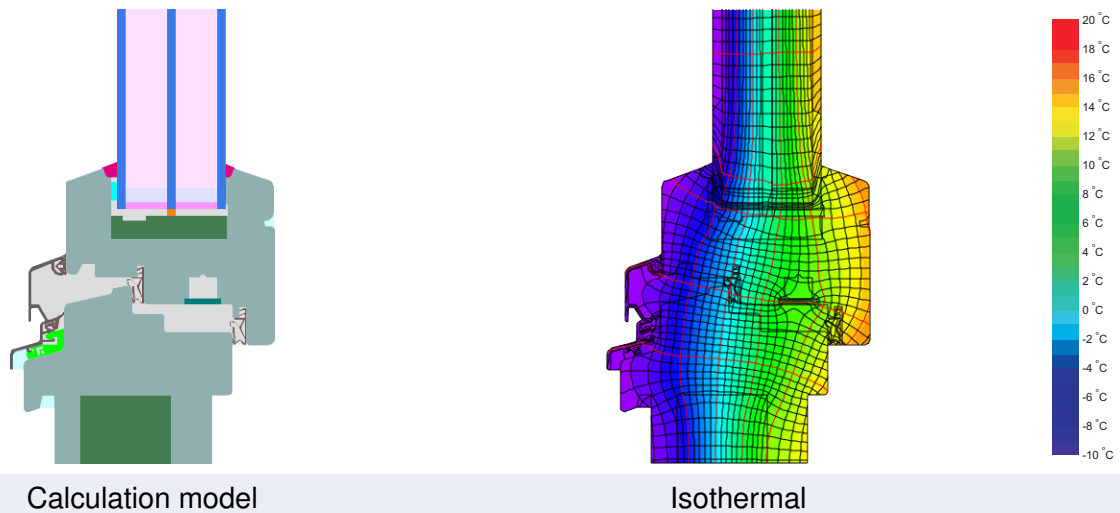
phA

cool, temperate climate



**CERTIFIED  
COMPONENT**

Passive House Institute



### Description

Spruce/Fir window-aluminium frame (0.11 W/(mK)) with Compacfoam 100 insulation (0.040 W/(mK)). Pane thickness: 48mm (4/18/4/18/4), rebate depth: 18 mm, spacer: SWISSPACER Ultimate with polysulfide secondary seal.

### 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/(m<sup>2</sup> 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 <sup>2</sup> K)
		↓	↓	↓	↓	
Window	$U_W =$	0.80	0.76	0.72	0.68	W/(m <sup>2</sup> K)

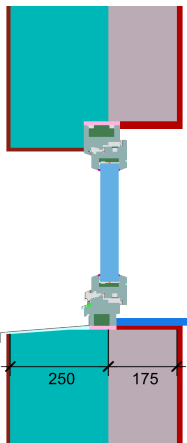
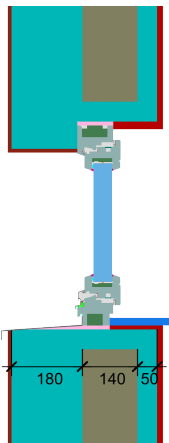
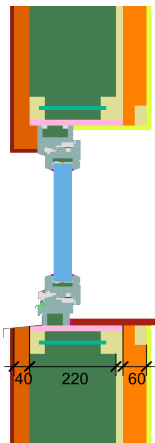
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations 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](http://www.passivehouse.com) and [passipedia.org](http://passipedia.org).

Frame values			Frame width $b_f$ mm	$U$ -value frame $U_f$ W/(m <sup>2</sup> K)	$\Psi$ -panel edge $\Psi_g$ W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Top	(to)		115	0.80	0.024	0.76
Side	(s)		115	0.80	0.024	0.76
Bottom	(bo)		130	0.93	0.024	0.75
Mullion flying	(fm)		130	0.90	0.024	0.71
			Spacer: SWISSPACER Ultimate		Secondary seal: Polysulfide	

### Validated installations

EIFS		Insulated formwork blocks		Timber frame	
$U_{Wall} = 0.13 \text{ W/(m}^2 \text{ K)}$		$U_{Wall} = 0.15 \text{ W/(m}^2 \text{ K)}$		$U_{Wall} = 0.13 \text{ W/(m}^2 \text{ K)}$	
					
$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)
Top	0.008	Top	0.003	Top	0.011
Side	0.008	Side	0.003	Side	0.011
Bottom	0.037	Bottom	0.029	Bottom	0.024
$U_{W,installed} = 0.85 \text{ W/(m}^2 \text{ K)}$		$U_{W,installed} = 0.83 \text{ W/(m}^2 \text{ K)}$		$U_{W,installed} = 0.84 \text{ W/(m}^2 \text{ K)}$	

