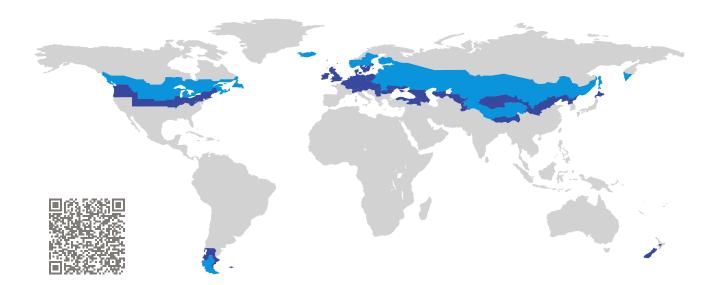
## CERTIFICATE

Certified Passive House Component

Component-ID 1609pm02 valid until 31st December 2021

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

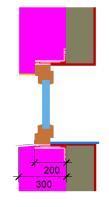


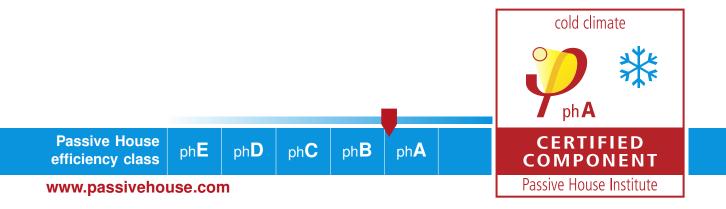
Category:	Window connection
Manufacturer:	Soudal N.V.,
	Turnhout,
	Belgium
Product name:	SoudaFrame SWI

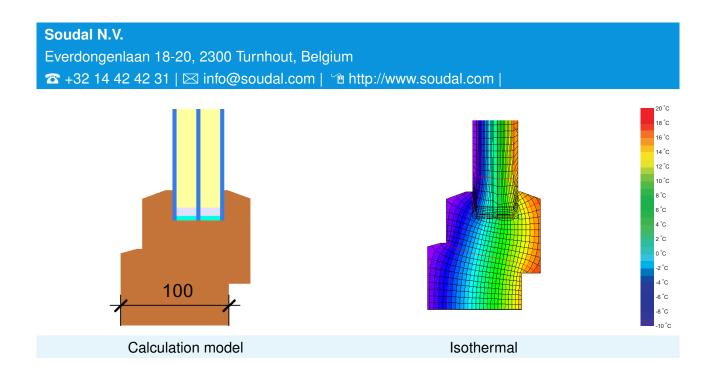
This certificate was awarded based on the following criteria for the cold climate zone

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

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







## Description

Window mounting system made from GRP (0,19 W/(mK)), system width 90, 130 160, 200 mm. Assembly by way of adhesive and mechanical fixing. Additional thermal losses by reinforcing brackets made from steel determined by 3D heat flux simulation. Losses are to be inlcuded where the load exceeds a certain level, see certification report.

## 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/(m<sup>2</sup> K). If a higher quality glazing is used, the window U-values will improve as follows:

Glazing	$U_g =$	0.52	0.70	0.61	0.35	$W/(m^2 K)$
		$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	
Window	$U_W =$	0.60	0.72	0.66	0.49	W/(m <sup>2</sup> K)

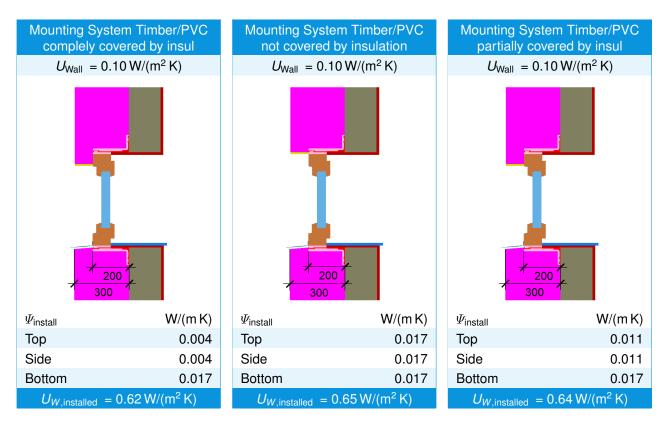
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

Frame values			Frame width <i>b<sub>f</sub></i> mm	<i>U</i> -value frame <i>U</i> f W/(m <sup>2</sup> K)	$\Psi$ -panel edge $\Psi_g$ W/(m K)	Temp. Factor f <sub>Rsi=0.25</sub> [-]	
Тор	(to)	ī	125	0.62	0.020	0.79	
Side	(s)	<b>K</b> —	125	0.62	0.020	0.79	
Bottom	(bo)	Ţ	125	0.62	0.020	0.79	
		Spac	er: PHI phA Spacer	Secon	Secondary seal: Butyl		

## Validated installations



www.passivehouse.com