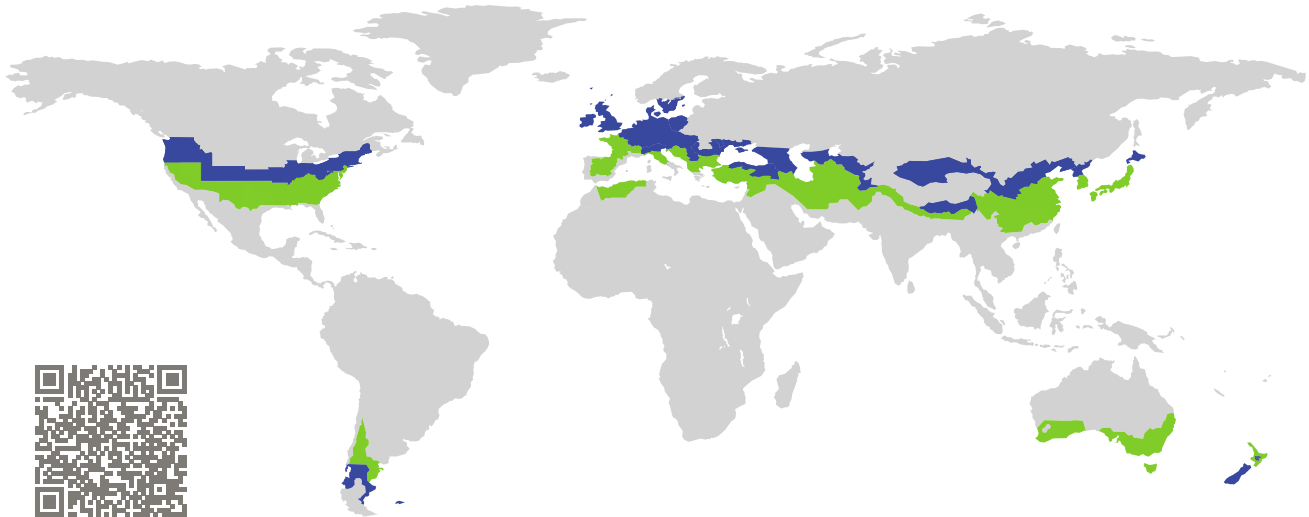


# CERTIFICATE

Certified Passive House Component

Component-ID 0026wi03 valid until 31st December 2018

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
Germany

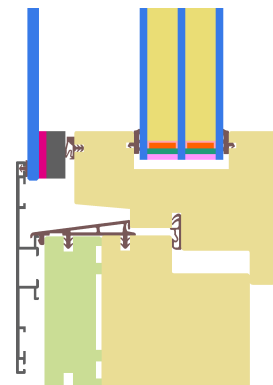


Category: **Window Frame (Coupled Window)**  
Manufacturer: **batimet GmbH,  
Dresden,  
Germany**  
Product name: **TA35 SE VB**

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

Comfort  $U_W = 0.73 \leq 0.80 \text{ W}/(\text{m}^2 \text{ K})$   
 $U_{W,\text{installed}} \leq 0.85 \text{ W}/(\text{m}^2 \text{ K})$   
with  $U_g^1 = 0.62 \text{ W}/(\text{m}^2 \text{ K})$

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



<sup>1</sup>The specified  $U_g$  value is determined using the reference glazing of the climate zone in conjunction with the additional pane.

Passive House  
efficiency class

phE

phD

phC

phB

phA

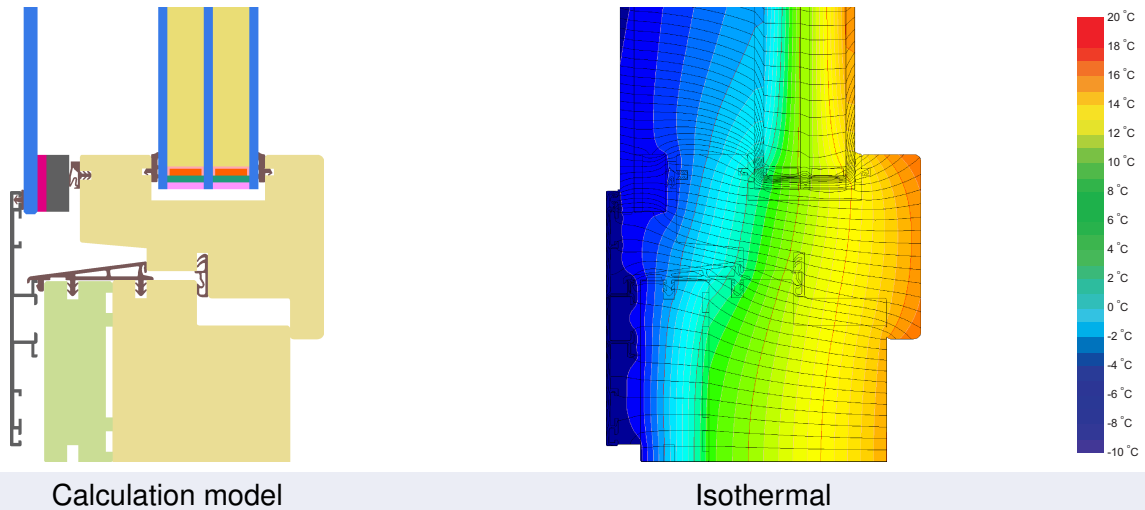
[www.passivehouse.com](http://www.passivehouse.com)

cool, temperate climate



**CERTIFIED  
COMPONENT**

Passive House Institute



**Description**

Timber frame with insulation and external aluminium shell; coupled window with  $U_g = 0.62 \text{ W}/(\text{m}^2\text{K})$  (triple glazing  $U_g = 0.70 \text{ W}/(\text{m}^2\text{K})$  plus one additional pane (6 mm), 53 mm spacing); ensure use of glazing with appropriate g-values

**Explanation**

The window U-values were calculated for the test window size of  $1.23 \text{ m} \times 1.48 \text{ m}$  with  $U_g = 0.70 \text{ W}/(\text{m}^2 \text{K})$ . If a higher quality glazing is used, the window U-values will improve as follows:





Glazing <sup>2</sup>	$U_g =$	0.70	0.64	0.58	0.53	$\text{W}/(\text{m}^2 \text{K})$
		↓	↓	↓	↓	
Window	$U_W =$	0.73	0.69	0.66	0.64	$\text{W}/(\text{m}^2 \text{K})$

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.

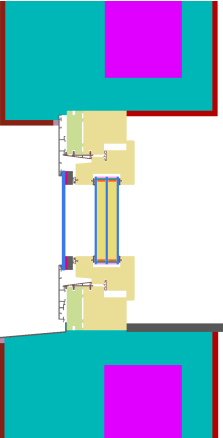
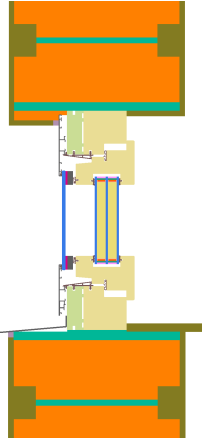
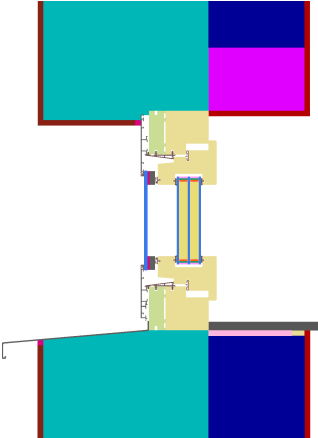
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense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

<sup>2</sup>The specified  $U_g$  values refer to the thermally decisive pane.

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)		135	0.70	0.032	0.73
Side	(s)		135	0.70	0.032	0.73
Bottom	(bo)		135	0.70	0.032	0.73
Mullion 1 casement	(m1)		170	0.74	0.031	0.72
			Spacer: TGI Wave		Secondary seal: Polysulfide	

### Validated installations

Insulated formwork blocks		Timber frame		EIFS	
					
$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)
Top	0.006	Top	0.010	Top	0.011
Side	0.006	Side	0.010	Side	0.011
Bottom	0.012	Bottom	0.018	Bottom	0.017
$U_{W,installed} = 0.75$ W/(m <sup>2</sup> K)		$U_{W,installed} = 0.76$ W/(m <sup>2</sup> K)		$U_{W,installed} = 0.76$ W/(m <sup>2</sup> K)	

