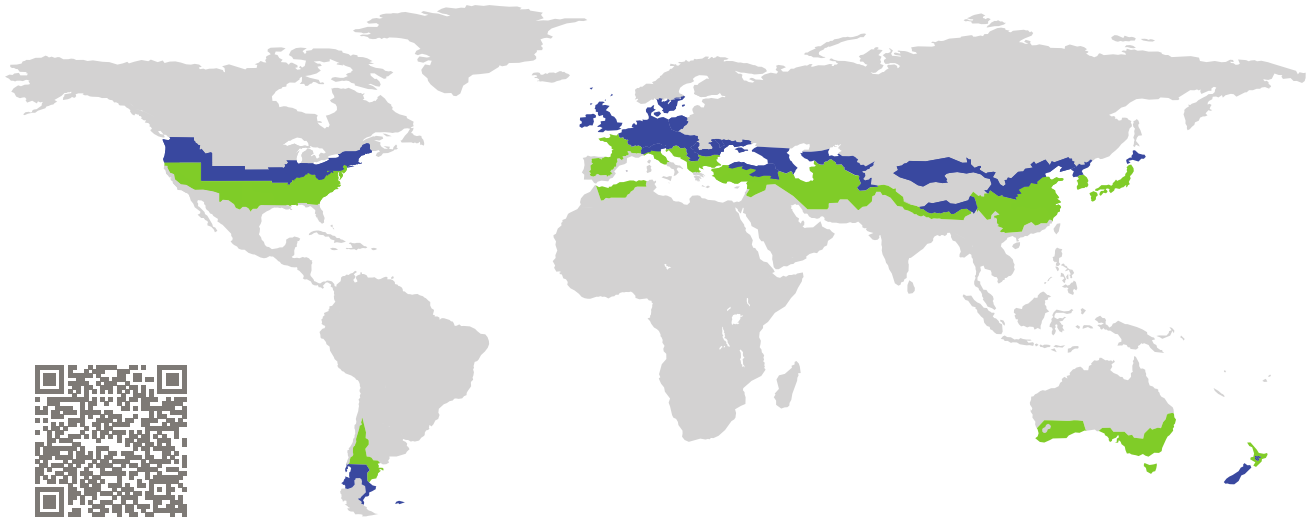


CERTIFICATE

Certified Passive House Component

Component-ID 0642wi03 valid until 31st December 2017

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

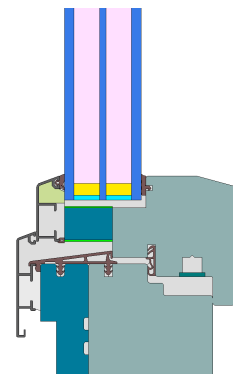


Category: **Window frame**
Manufacturer: **batimet GmbH,
Dresden,
Germany**
Product name: **TA35 SE**

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

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

www.passivehouse.com

cool, temperate climate

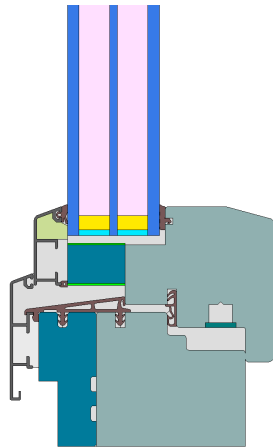


ph B

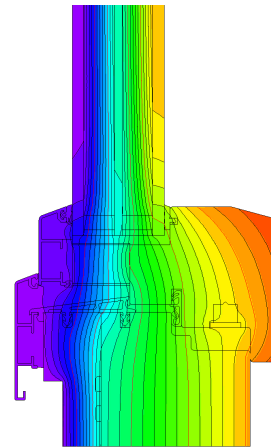


**CERTIFIED
COMPONENT**

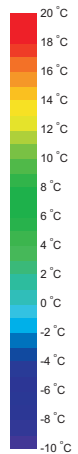
Passive House Institute



Calculation model



Isothermal



Description

Aluminium clad timber frame (0,11 W/(mK)), insulated by EPS-foam (0,031 W/(mK)). Spacer: SuperSpacer Tri-Seal with PU Secondary seal. Pane thickness: 48 mm (6/16/4/16/6), Rebate depth: 15 mm.

Explanation



The window U-values were calculated for the test window size of 1.23 m × 1.48 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	$U_g =$	0.70	0.64	0.58	0.52	W/(m ² K)
		↓	↓	↓	↓	
Window	$U_W =$	0.78	0.74	0.70	0.66	W/(m ² K)

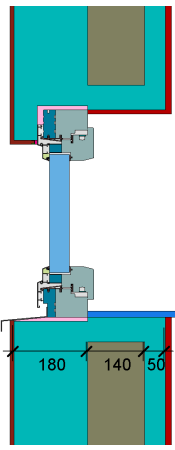
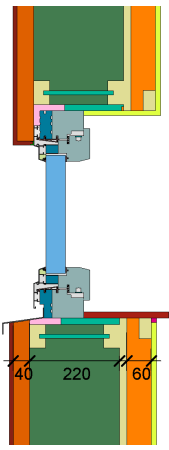
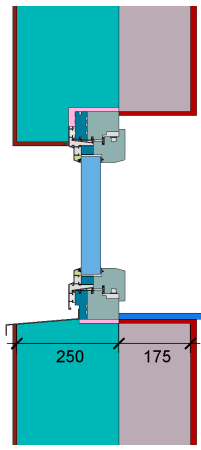
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations 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			Frame width b_f mm	U -value frame U_f W/(m ² K)	Ψ -glass edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Top	(to)		125	0.72	0.028	0.70
Side	(s)		125	0.72	0.028	0.70
Bottom	(bo)		125	0.75	0.028	0.70
Mullion 2 casements	(m2)		136	0.81	0.028	0.69
Spacer: Super Spacer TriSeal / T-Spacer Premium				Secondary seal: Polyurethane		

Validated installations

Insulated formwork blocks		Timber frame		EIFS	
					
$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)
Top	0.003	Top	0.019	Top	0.001
Side	0.003	Side	0.019	Side	0.001
Bottom	0.013	Bottom	0.029	Bottom	0.016
$U_{W,installed} = 0.79$ W/(m ² K)		$U_{W,installed} = 0.84$ W/(m ² K)		$U_{W,installed} = 0.79$ W/(m ² K)	

