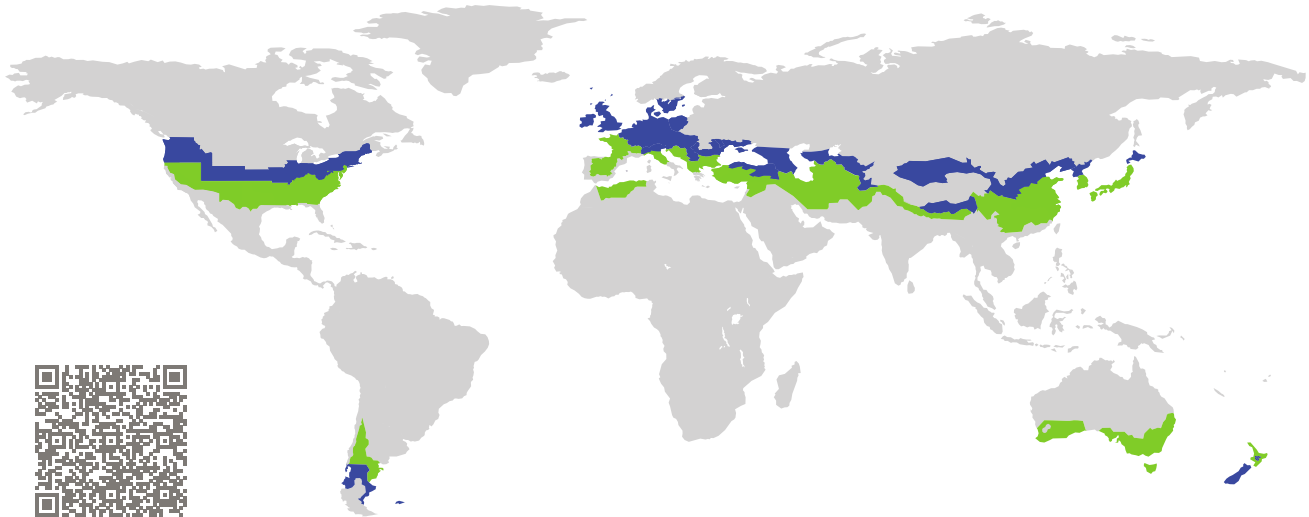


# CERTIFICATE

Certified Passive House Component

Component-ID 2390cw03 valid until 31st December 2025

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
Germany

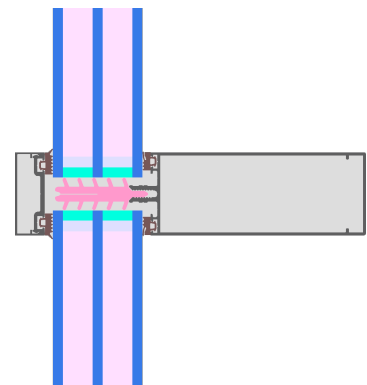


Category: **Curtain Wall**  
Manufacturer: **Europa Profil SA,  
Inofita, Viotia,  
Greece**  
Product name: **ECW50**

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

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

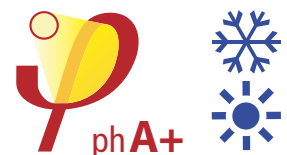
phB

phA

phA+

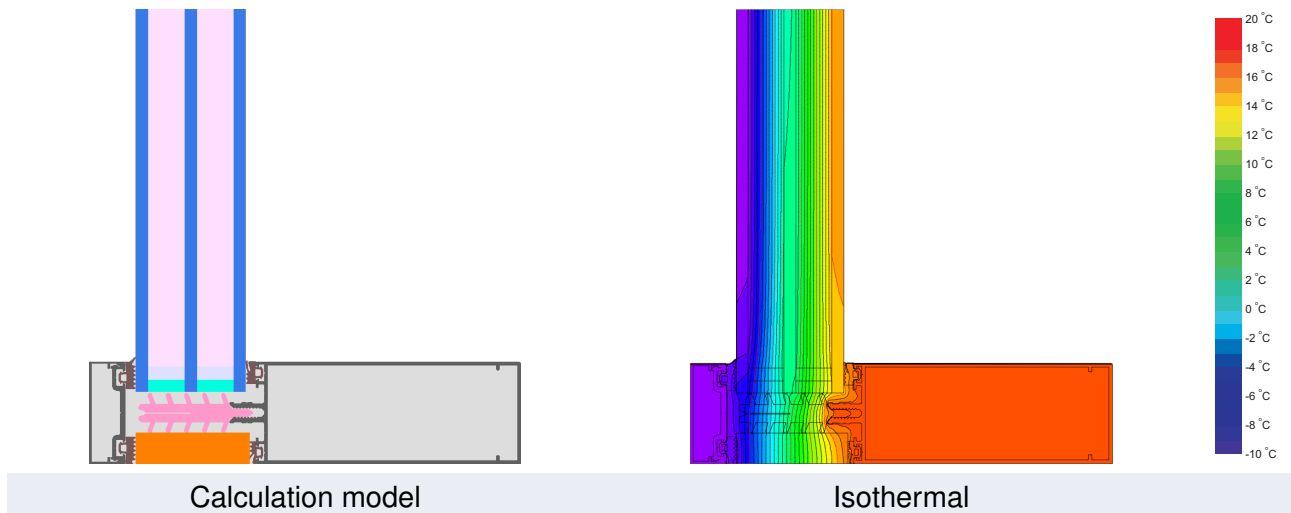
[www.passivehouse.com](http://www.passivehouse.com)

cool, temperate climate



**CERTIFIED  
COMPONENT**

Passive House Institute



## Description

Aluminium curtain wall system 50 mm wide insulated with Nomatec XPET insulation (0,029 W/(mK)). Standard value of 0,30 W/(m²K) applied for pressure plate screws; standard value of 0,003 W/K applied for non-metallic glass carrier without screws. Edge bond: Swisspacer Ultimate with butyl secondary seal.

## Explanation






The element U-values were calculated for the test element size of 1.20 m × 2.50 m with  $U_g = 0.70 \text{ W/(m}^2 \text{ K)}$ . If a higher quality glazing is used, the element U-values will improve as follows:

Glazing	$U_g =$	0.70	0.64	0.58	0.52	W/(m² K)
		↓	↓	↓	↓	
Element	$U_{CW}$	0.80	0.74	0.69	0.63	W/(m² K)

Transparent building components are sorted 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.

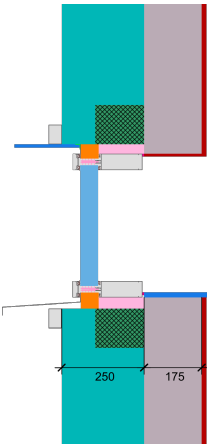
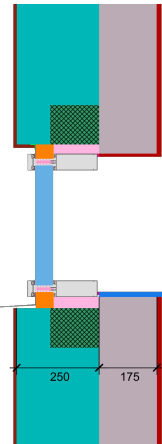
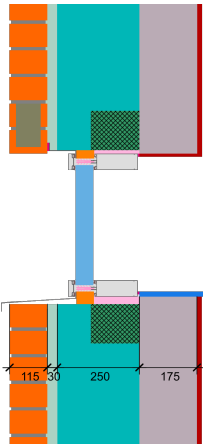
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components that have been certified for climate zones with higher thermal requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make 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 $U_f$ <sup>1</sup> W/(m <sup>2</sup> K)	$\Psi$ -glazing edge $\Psi_g$ W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Mullion fixed	(0M1)		50	0.93	0.035	0.81
Transom fixed	(0T1)		50	0.93	0.036	0.83
Bottom fixed	(FB1)		50	0.94	0.035	0.82
Top fixed	(FH1)		50	0.94	0.035	0.82
Lateral fixed	(FJ1)		50	0.94	0.035	0.81
Spacer: SWISSPACER Ultimate			Secondary seal: Butyl			

Thermal glass carrier bridge<sup>2</sup>  $\chi_{GT} = 0.003$  W/K

## Validated installations

Ventilated facade (fixed glazed)		Exterior insulation and finishing system (EIFS) (fixed glazed)		Cavity wall (fixed glazing)	
$U_{Wall} = 0.13$ W/(m <sup>2</sup> K)		$U_{Wall} = 0.13$ W/(m <sup>2</sup> K)		$U_{Wall} = 0.13$ W/(m <sup>2</sup> K)	
					
$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)
Top	0.024	Top	0.024	Top	0.021
Left	0.019	Left	0.019	Left	0.018
Right	0.019	Right	0.019	Right	0.018
Bottom	0.025	Bottom	0.025	Bottom	0.023
$U_{W,installed} = 0.83$ W/(m <sup>2</sup> K)		$U_{W,installed} = 0.83$ W/(m <sup>2</sup> K)		$U_{W,installed} = 0.83$ W/(m <sup>2</sup> K)	

<sup>1</sup> Includes  $\Delta U = 0.30$  W/(m<sup>2</sup> K). Standard value

<sup>2</sup> Standard value. Glass carrier type: Non-metallic

