Certificate

Certified Passive House component for cool, temperate climate, valid until 31.12.2016

Category: Manufacturer:

Curtain Wall PONZIO POLSKA Sp. z o.o. 09-472 Slupno, POLAND PONZIO PF152HI

Product name:

The following comfort criteria were used in awarding this certificate:

Given a Ug value of 0,70 W/(m²K) and an element size of 1.20 m by 2.50 m,

$U_{CW} = 0.80 \text{ W/(m^2K)} \le 0.80 \text{ W/(m^2K)}$

Taking into account the installation based thermal bridges, and provided that the installation is, with regard to the thermal bridges, equal or better than shown in the data sheet, the facede meets the following criterion.

U_{CW,installed}

≤ 0.85 W/(m²K)

Thermal data of the construction

	U _f -value [W/(m²K)]	Width [mm]	Ψ _g [W/(mK)]	f _{Rsi=0,25} [-]
Spacer			ULTIMATE	Swisspacer*
Transom (t)	0.92	52	0.034	0.90
Mullion (m)	0.93	52	0.034	0.00
Thermal glass carrier bridge χ_{GT} [W/K]:			0.006	

*Spacers of lower thermal quality, especially those made of aluminium, lead to significantly higher thermal losses and lower temperature factors.

Further information see data sheet

www.passivehouse.com

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY



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CERTIFIED

 COMPONENT

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 Passive House Institute

Data Sheet PONZIO POLSKA Sp. z o.o., PONZIO PF152HI

Manufacturer PONZIO POLSKA Sp. z o.o. 09-472 Slupno, POLAND Tel.: +48 24 267 50 24 www.ponzio.pl



Description

Aluminium mullion and transom facade. Covering- and pressure-strip from aluminium. Insulation of polytheylene inside of the rebate. Used Pane: 50 mm (6/16/6/16/6), rebate depth: 14. Used spacer: ULTIMATE Swisspacer

Thermal data

	U _f -value	Width	Ψ _g	f _{Rsi=0.25}
	[W/(m²K)]	[mm]	[W/(mK)]	[-]
Spacer			ULTIMATE Swisspacer*	
Transom (t)	0.92	52	0.034	0.80
Mullion (m)	0.93	52	0.034	
-				
-				
Thermal glass carrier bridge χ_{GT} [W/K]:				0.006
1: Includes $\Delta U = 0.244 \text{ W/(m}^2\text{K})$, determined by simulation (PHI)				
2: determined by simulation (PHI)				

* Spacers of lower thermal quality leading to higher thermal losses and lower temperatures.

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Data Sheet PONZIO POLSKA Sp. z o.o., PONZIO PF152HI

Installation



Installation based thermal bridge $\Psi_{\text{instal.}}$ in Passive House suitable walls

Position		EIFS	Timber construction wall	Insulated formwork blocks
Bottom	[W/(mK)]	0.051	0.039	0.040
Side/top	[W/(mK)]	0.040	0.047	0.045
U _{CW,installed}	[W/(m ² K)]	0.85	0.85	0.85

Explanatory notes

The facade-U-values were calculated based on a 1.20 m by 2.50 m element $U_g = 0.70 \text{ W/(m^2K)}$. If better glazing is used, the window U-value decrease as follow:

U Glazing	U _g [W/(m²K)]	0.66	0.60	0.50
U Facade	U_{CW} [W/(m²K)]	0.76	0.70	0.61

Depending on the thermal losses through opaque elements, transparent components are categorised according to efficency classes. These thermal losses include the losses through the frame, multiplied by its width, the thermal bridge at the edge bond as well as the length of the edge bond.

Please ask the manufacturer for a detailed report containing all calculations and results.

For further information, please visit www.passivehouse.com or www.passipedia.org.

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