Certificate

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

Category: Manufacturer: Curtain Wall GUTMANN AG 91781 Weißenburg, GERMANY Lara GF 50 - PH

Product name:

The following comfort criteria were used in awarding this certificate:

Given a Ug value of 0,7 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,eingebaut} ≤ 0.85 W/(m²K)

Thermal data of the construction

	U _f -value [W/(m²K)]	Width [mm]	Ψ _g [W/(mK)]	f _{Rsi=0,2}
Spacer	[, ([]	Swisspacer V*	
Transom (t)	0,91	50	0,036	0,78
Mullion (m)	0,91	50	0,036	
Thermal glass of	0,004			

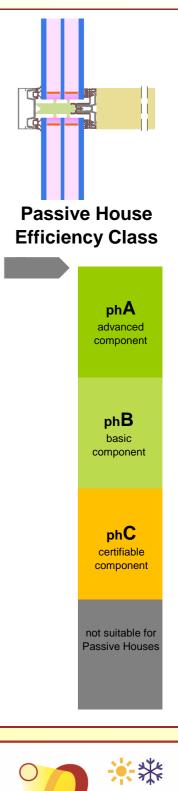
*Spacers of lower thermal quality, especially those made of aluminium, lead to significantly higher thermal losses and lower temperature factors.

Further information see data sheet



Passive House Institute

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY

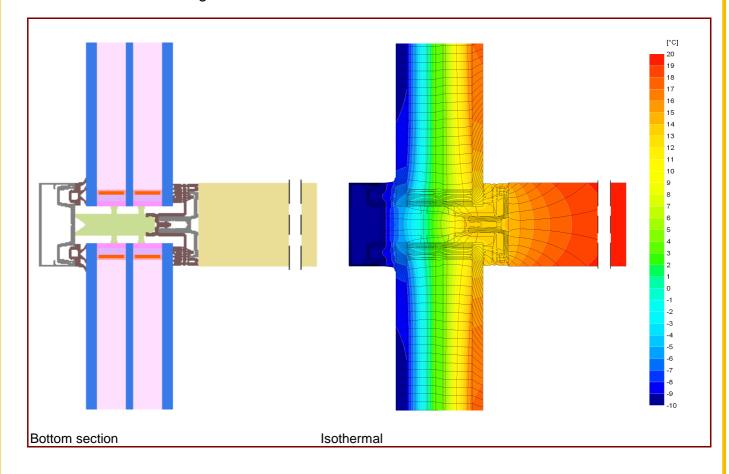


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Data Sheet GUTMANN AG, Lara GF 50 - PH

Manufacturer GUTMANN AG 91781 Weißenburg, GERMANY Tel.: +49 (0) 9141 992-0 www.gutmann.de



Description

Timber construction, Aluminium covering- and pressure-strip. PE-foam insulator in the glazing rebate (0,035 W/(mK)). Plastic glass-carier on stainless steel screws. Used Pane: 48 mm (6/16/4/16/6), intersection of the Glass: 14 mm. Used spacer: Swisspacer V

Thermal data

	U _f -value	Width	Ψ_{g}	f _{Rsi=0.20}		
	[W/(m²K)]	[mm]	[W/(mK)]	[-]		
Spacer			Swisspacer V*			
Transom (t)	0,91	50	0,036	0,78		
Mullion (m)	0,91	50	0,036			
Opening element						
-						
Thermal glass car	0,004					
1: Includes $\Delta U = 0.23$ W/(m ² K), Determined by 3D thermal flux simul. (PHI)						
2: Standard value according to the PHI criteria for transparent components						

Depending on the thermal losses through opaque elements, windows are categorised in 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.

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

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