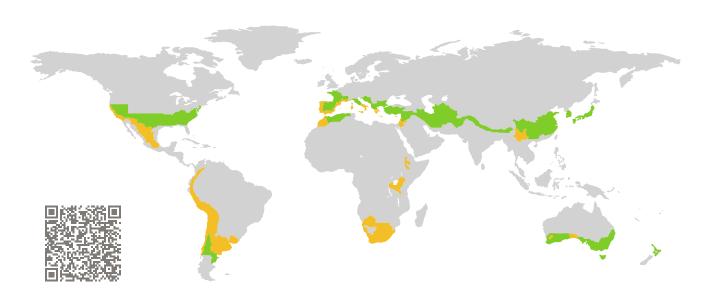
# **CERTIFICATE**

**Certified Passive House Component** 

Component-ID 1729wi04 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Window Frame
Manufacturer: GALISUR S.L.,

Alcalá de Guadaíra, Sevilla,

Spain

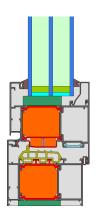
Product name: AR80 PASSIVHAUS

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

Comfort  $U_W = 1.00 \le 1.00 \text{ W/(m}^2 \text{ K)}$ 

 $U_{W,\text{installed}} \leq 1.05 \text{ W/(m}^2 \text{ K)}$ with  $U_q = 0.90 \text{ W/(m}^2 \text{ K)}$ 

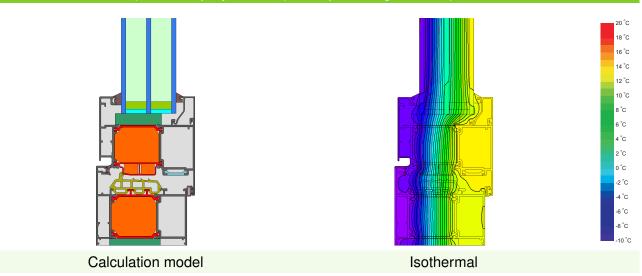
Hygiene  $f_{Rsi=0.25}$   $\geq$  0.65





#### **GALISUR S.L.**

Pol. Ind. Fridex, calle siete, parc. 19, 41500 Alcalá de Guadaíra, Sevilla, Spain



### **Description**

Aluminium-frame with low lambda-PA-struds and insulation PUR-fillings (0.027 W/(mK). Insulation inlays (0.045 W/(mK)) inside the rebate and installation cavity. Pane thickness: 48 mm (4/18/4/18/4), rebate depth: 18 mm. Spacer: TGI-Spacer Precision.

#### **Explanation**

The window U-values were calculated for the test window size of 1.23 m  $\times$  1.48 m with  $U_g = 0.90$  W/(m<sup>2</sup> K). If a higher quality glazing is used, the window U-values will improve as follows:

Glazing 
$$U_g = \begin{array}{ccccc} 0.90 & 0.70 & 0.68 & 0.64 & \text{W/(m}^2 \text{ K)} \\ \downarrow & \downarrow & \downarrow & \downarrow \\ \text{Window} & U_W = \begin{array}{ccccc} 1.00 & 0.87 & 0.85 & 0.83 & \text{W/(m}^2 \text{ K)} \\ \end{array}$$

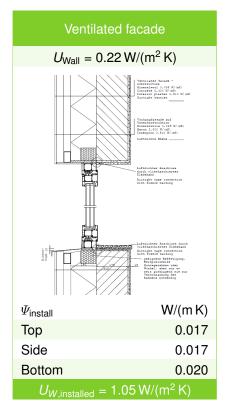
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations performed in the context of certification is available from the manufacturer.

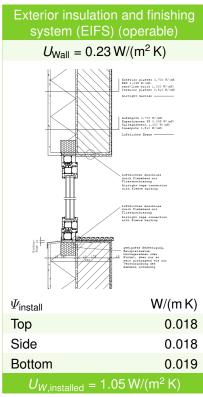
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense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

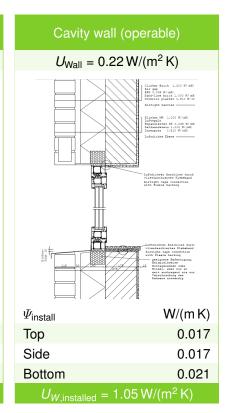
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

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## Validated installations







Frame values			Frame width <i>b<sub>f</sub></i> mm	<i>U</i> -value frame <i>U<sub>f</sub></i> W/(m² K)	$\Psi$ -glazing edge $\Psi_g$ W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Flying Mul- lion	(FM1)	7	185	1.04	0.026	0.75
Bottom	(OB1)	4	134	0.99	0.027	0.76
Тор	(OH1)	f	134	0.99	0.027	0.76
Lateral	(OJ1)	1	134	0.99	0.027	0.76
Spacer: Technoform-Spacer SP16 Secondary seal: Butyl						

