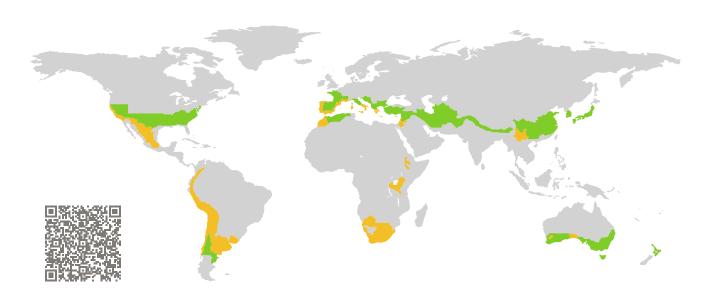
## **CERTIFICATE**

**Certified Passive House Component** 

Component-ID 1916wi04 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Window Frame

Manufacturer: EXTRUSIONADOS GALICIA S.A.U.,

Valga, Spain

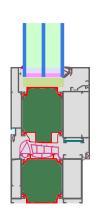
Product name: XP-80 TH HI

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

 $Comfort \quad \textit{U}_{\textit{W}}\text{= }1.00 \quad \leq \quad 1.00\,\text{W}/(\text{m}^2\,\text{K})$ 

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

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





# EXTRUSIONADOS GALICIA S.A.U. CAMPAÑA S/N, 36645 Valga, Spain ↑ +34986564009 | ⋈ tecnico2@extrugasa.com | ↑ http://www.extrugasa.com |



#### **Description**

Aluminium frame with a thermal break made out of polyamide (Technoform PA66 GF25), in-situ PU foam and PE foam insulation [0.036 W/(mK)] for the glass rebate. Pane thickness: 46 mm (6/16/4/16/4), rebate depth: 11 mm. Spacer: Technoform-Spacer SP16 with butyl as a secondary seal.

#### **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 
$$U_g = \begin{array}{ccccc} 0.90 & 0.80 & 0.70 & 0.60 & \text{W/(m}^2 \text{ K)} \\ \downarrow & \downarrow & \downarrow & \downarrow \\ \text{Window} & U_W = \begin{array}{ccccc} 1.00 & 0.94 & 0.88 & 0.82 & \text{W/(m}^2 \text{ K)} \\ \end{array}$$

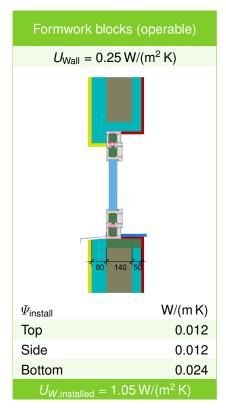
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

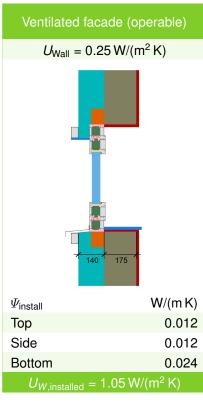
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense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

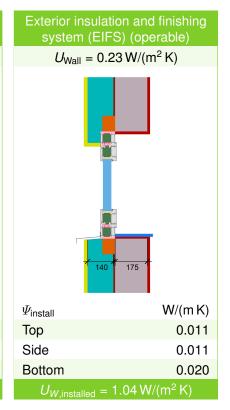
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

2/4 XP-80 TH HI

### Validated installations







Frame values	5		Frame width <i>b<sub>f</sub></i> mm	$U$ -value frame $U_f$ W/(m <sup>2</sup> K)	$\Psi$ -glazing edge $\Psi_g$ W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Flying Mul- lion	(FM1)	7	211	0.99	0.032	0.72
Bottom	(OB1)		151	0.97	0.032	0.73
Тор	(OH1)	f	151	0.97	0.032	0.73
Lateral	(OJ1)	11	151	0.97	0.032	0.73
Spacer: Technoform-Spacer SP16 Secondary seal: Butyl						

