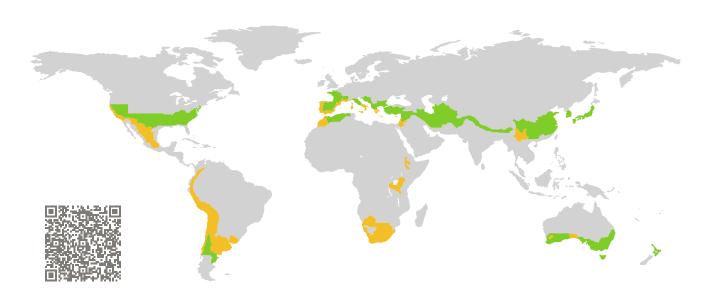
## **CERTIFICATE**

**Certified Passive House Component** 

Component-ID 1855wi04 valid until 31st December 2023

Passive House Institute Dr.Wolfgang Feist 64283 Darmstadt Germany



Category: Window Frame

Manufacturer: Fırat Plastik ve Kauçuk San.Tic.AS.,

Istanbul, Turkey

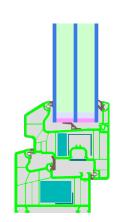
Product name: Elegance 80

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

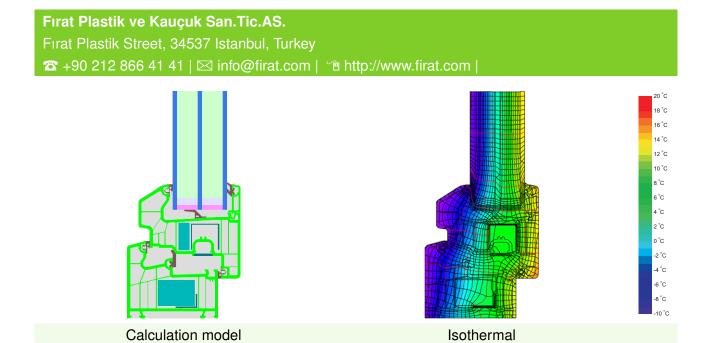
Comfort  $U_W = 0.99 \le 1.00 \text{ W/(m}^2 \text{ K)}$ 

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

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







## **Description**

PVC frame with steel reinforcements and EPS insulation (0,035 W/(mK)). The maximum size of the window with this reinforcement is 1.23 m by 2 m. Pane thickness: 48 mm (4/18/4/18/4), rebate depth: 22 mm.

## **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:

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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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 <sub>Rsi=0.25</sub> [-]
Flying Mul- lion	(FM1)	7	140	0.97	0.027	0.69
Bottom	(OB1)	Ŋ-	118	0.97	0.027	0.71
Тор	(OH1)	7	118	0.97	0.027	0.71
Lateral	(OJ1)	Ŋ-	118	0.97	0.027	0.71
Spacer: SWISSPACER ULTIMATE Secondary seal: Polysulfid						fid

## Validated installations

