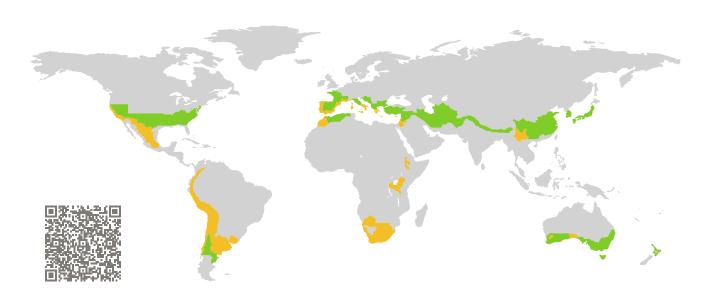
CERTIFICATE

Certified Passive House Component

Component-ID 1855wi04 valid until 31st December 2026

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

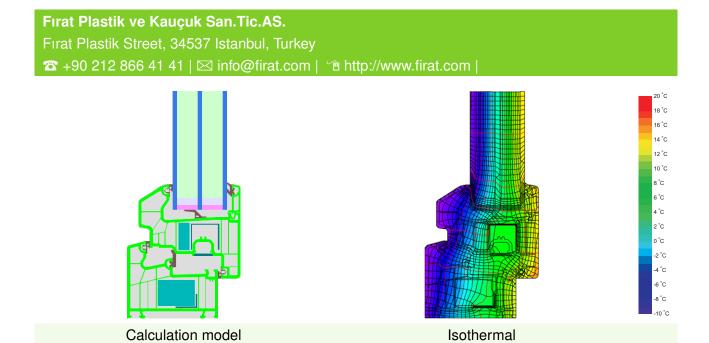
Comfort $U_W = 0.99 \le 1.00 \,\text{W/(m}^2 \,\text{K)}$

 $U_{W,\text{installed}} \leq 1.05 \text{ W/(m}^2 \text{ K)}$ 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/(m² 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.

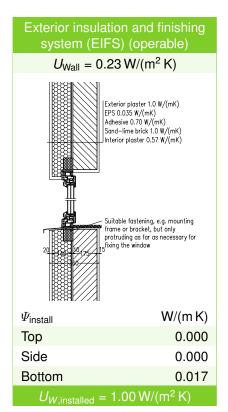
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense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

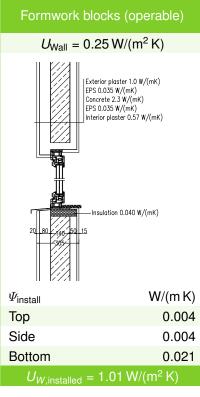
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

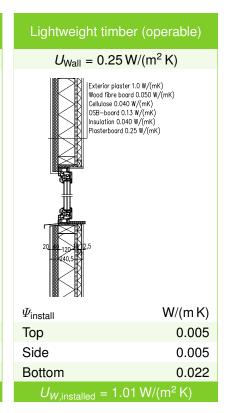
2/4 Elegance 80

Frame values			Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U_f</i> W/(m² K)	Ψ -glazing edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Flying Mullion	(FM1)	1	140	0.97	0.027	0.69
Bottom	(OB1)		118	0.97	0.027	0.71
Head	(OH1)	F	118	0.97	0.027	0.71
Jamb	(OJ1)		118	0.97	0.027	0.71
	Spa	cer: Sv	visspacer Ultimate	Secondary seal: Polysulfide		

Validated installations







Disclaimer: The Passive House Institute GmbH (PHI) conducts heat-transfer analyses in accordance with the standards set out in Criteria and Algorithms for Certified Passive House Components: Transparent Building Components and Opening Elements in the Building Envelope, based on information provided by the manufacturer. PHI does not verify on-site implementation. It is the responsibility of the project leader to ensure that installed components match the certified specifications in terms of geometry, configuration, and materials. Manufacturers must make full product information available upon request to parties involved in a construction project. These parties may compare the provided information with project documentation and perform on-site inspections as part of the quality-assurance process.

