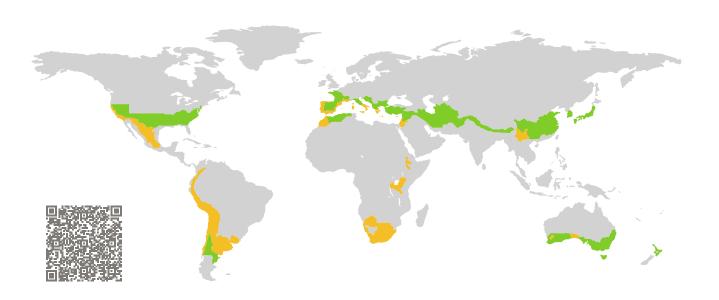
CERTIFICATE

Certified Passive House Component

Component-ID 2251wi04 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: Window Frame

Manufacturer: ASAŞ Alüminyum Sanayi ve Ticaret

A.Ş., AKYAZI, Turkey

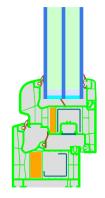
Product name: Inova 76 mm insulated

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

Comfort $U_W = 0.98 \le 1.00 \text{ W/(m}^2 \text{ K)}$

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

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

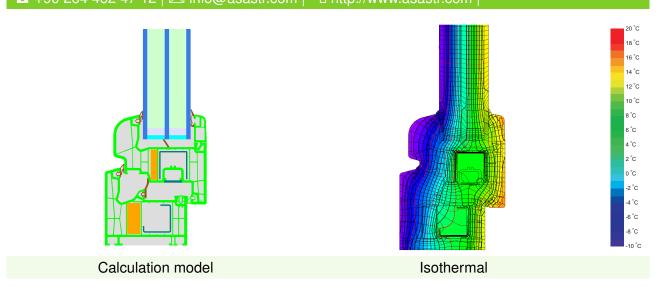




ASAŞ Alüminyum Sanayi ve Ticaret A.Ş.

Küçücek İstiklal Mah. Kışla Alanı Cad. No:2-1/1 Akyazı, 54400 AKYAZI, Turkey

↑ +90 264 462 47 12 | info@asastr.com | http://www.asastr.com |



Description

PVC window frame with insulation inserts made out of PU foam (0.027 W/(mK)) and steel reinforcements in both the frame and the sash. Pane thickness: 44 mm (4/16/4/16/4), rebate depth: 23 mm. Spacer: SWISSPACER Ultimate with butyl as 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/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

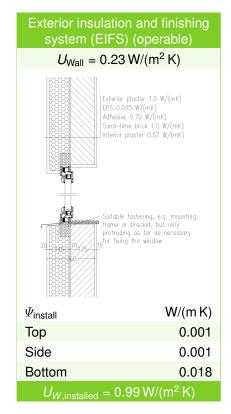
Glazing
$$U_g = \begin{array}{cccccc} 0.90 & 0.64 & 0.58 & 0.52 & \text{W/(m}^2 \,\text{K)} \\ \downarrow & \downarrow & \downarrow & \downarrow \\ \text{Window} & U_W = \begin{array}{cccccc} 0.98 & 0.80 & 0.76 & 0.72 & \text{W/(m}^2 \,\text{K)} \end{array}$$

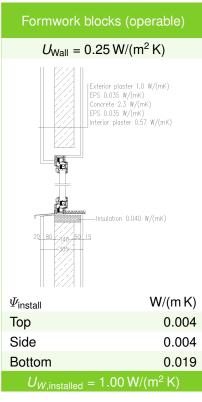
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

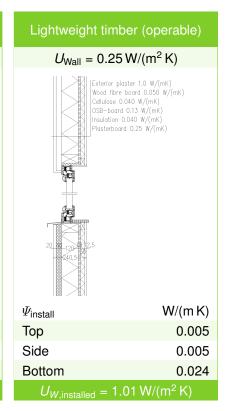
The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense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

Validated installations







Frame valu	Jes		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)	7	143	1.09	0.022	0.69	
Bottom	(OB1)		121	0.98	0.022	0.72	
Head	(OH1)	Ť	121	0.97	0.022	0.72	
Jamb	(OJ1)	<u>"</u>	121	0.97	0.022	0.72	
Spacer: Swisspacer Ultimate					Secondary seal: Butyl		

