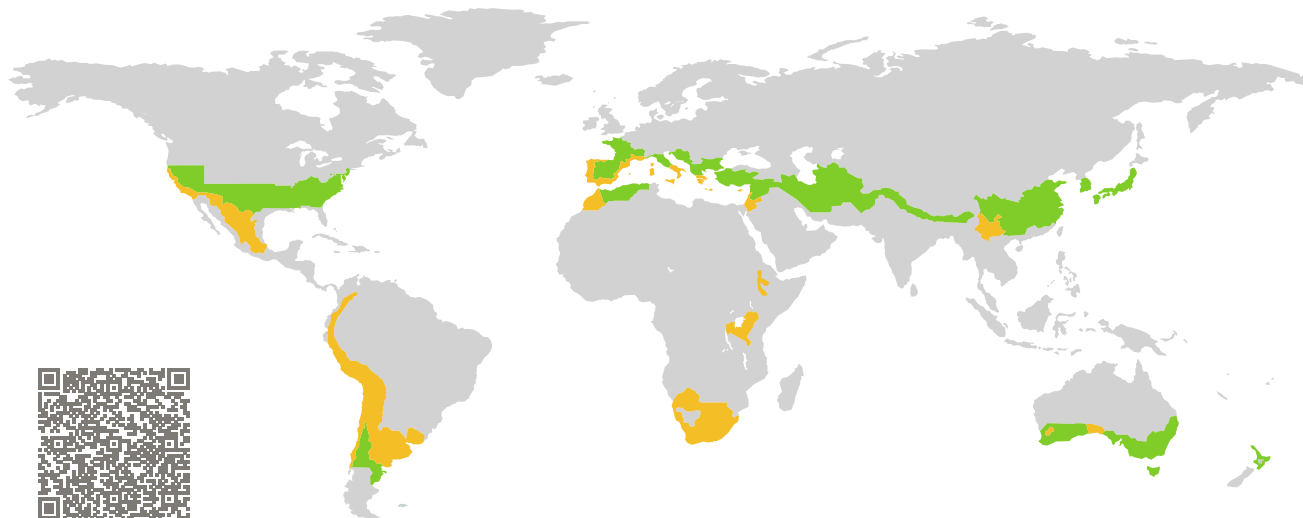


CERTIFICATE

Certified Passive House Component

Component-ID 1808wi04 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

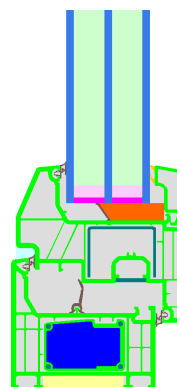


Category: **Window Frame**
Manufacturer: **Ege Profil Tic.ve San. A.S., trading as Deceuninck TR, Izmir, Turkey**
Product name: **Legend (variant)**

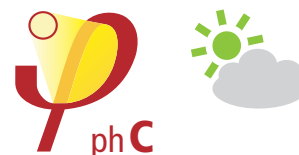
This certificate was awarded based on the following criteria for the warm, temperate climate zone

Comfort $U_W = 0.99 \leq 1.00 \text{ W}/(\text{m}^2 \text{ K})$
 $U_{W,\text{installed}} \leq 1.05 \text{ W}/(\text{m}^2 \text{ K})$
with $U_g = 0.90 \text{ W}/(\text{m}^2 \text{ K})$

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



warm, temperate climate



CERTIFIED COMPONENT

Passive House Institute

Passive House efficiency class

phE

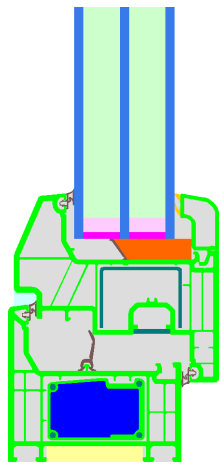
phD

phC

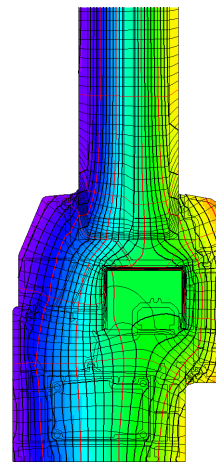
phB

phA

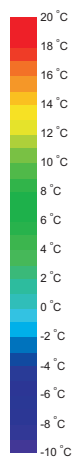
www.passivehouse.com



Calculation model



Isothermal



Description

Vinyl frame with insulation inside the rebate (0.036 W/(mK)) and in the frame (0.031 W/(mK)). Pane thickness: 44 mm (4/16/4/16/4), rebate depth: 20 mm, spacer: SWISSPACER Ultimate

Explanation

The window U-values were calculated for the test window size of 1.23 m × 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:

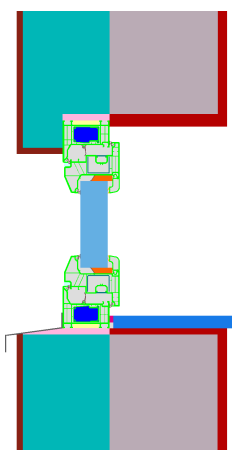
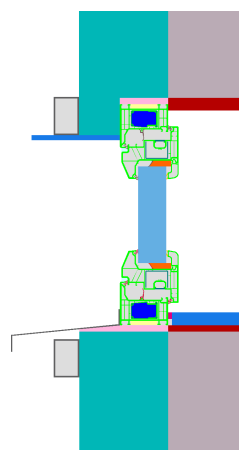
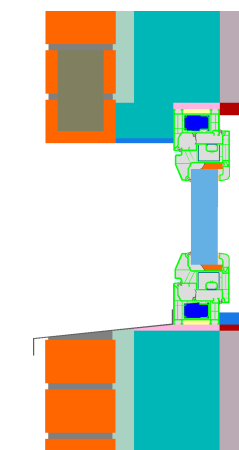
Glazing	$U_g =$	0.90	0.80	0.70	0.68	W/(m ² K)
		↓	↓	↓	↓	
Window	$U_W =$	0.99	0.93	0.86	0.84	W/(m ² K)



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

Exterior insulation and finishing system		Ventilated facade		Cavity wall	
$U_{\text{Wall}} = 0.23 \text{ W}/(\text{m}^2 \text{ K})$		$U_{\text{Wall}} = 0.22 \text{ W}/(\text{m}^2 \text{ K})$		$U_{\text{Wall}} = 0.22 \text{ W}/(\text{m}^2 \text{ K})$	
					
Ψ_{install}	W/(m K)	Ψ_{install}	W/(m K)	Ψ_{install}	W/(m K)
Top	-0.004	Top	-0.005	Top	-0.004
Side	-0.004	Side	-0.005	Side	-0.004
Bottom	0.011	Bottom	0.012	Bottom	0.014
$U_{W,\text{installed}} = 0.99 \text{ W}/(\text{m}^2 \text{ K})$		$U_{W,\text{installed}} = 0.99 \text{ W}/(\text{m}^2 \text{ K})$		$U_{W,\text{installed}} = 0.99 \text{ W}/(\text{m}^2 \text{ K})$	

Frame values			Frame width	U -value frame	Ψ -glazing edge	Temp. Factor
			b_f	U_f	Ψ_g	$f_{Rsi=0.25}$
			mm	W/(m ² K)	W/(m K)	[-]
Flying Mulletion	(FM1)		170	0.99	0.023	0.70
Bottom	(OB1)		118	1.02	0.023	0.71
Top	(OH1)		118	1.02	0.023	0.71
Lateral	(OJ1)		118	1.02	0.023	0.71
Spacer: SWISSPACER ULTIMATE			Secondary seal: Polysulfide			

