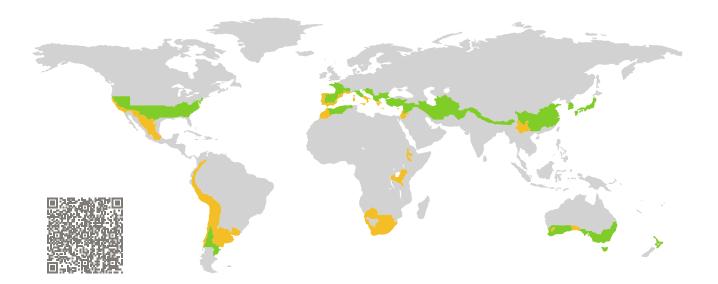
CERTIFICATE

Certified Passive House Component Component-ID 2149wi04 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

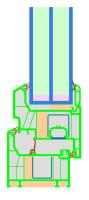


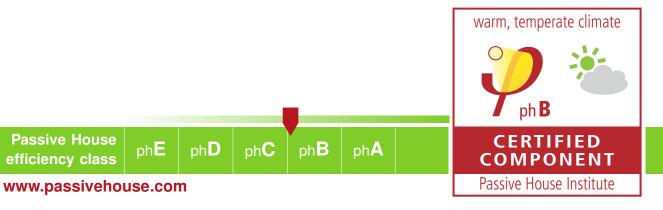
Category:	Window Frame
Manufacturer:	Ege Profil Tic.ve San. A.S., trading as
	Deceuninck TR,
	Izmir,
	Turkey
Product name:	Legend Art

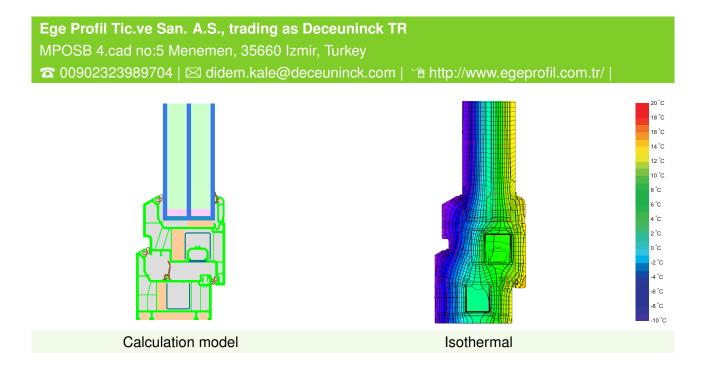
This certificate was awarded based on the following criteria for the warm, temperate climate zone

Comfort	<i>U</i> _W = 1.00	\leq	1.00 W/(m ² K)
	$U_{W,\text{installed}}$	\leq	1.05 W/(m ² K)
	with U_g	=	0.90 W/(m ² K)

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







Description

PVC frame with Steel Reinforcement and insulation (XPS Foamboard 2000, lambda = 0.036 W/(mK)) inside frame and sash. The hygiene criterion isn't met at the mullion. Pane thickness: 48 mm (4/18/4/18/4), 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	$U_g =$	0.90	0.80	0.70	0.60	$W/(m^2 K)$
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	1.00	0.93	0.86	0.79	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

Formwork blocks (operable)		Lightweight timber (operable)		Exterior insulation and finishing system (EIFS) (operable)		
$U_{\text{Wall}} = 0.25$	5 W/(m ² K)	$U_{Wall} = 0$).25 W/(m ² K)	$U_{Wall} = 0.23 W/(m^2 K)$		
EPS 0. Concre EPS 0. Interior	or plaster 1.0 W/(mK) .035 W/(mK) 2.3 W/(mK) of plaster 0.57 W/(mK)	Wood fi Cellulos OSB-bo Insulatio	plaster 1.0 W/(mK) bre board 0.050 W/(mK) e 0.040 W/(mK) on 0.040 W/(mK) ooard 0.25 W/(mK)		Exterior plaster 1.0 W/(mK) EPS 0.035 W/(mK) Adhesive 0.70 W/(mK) Sand-lime brick 1.0 W/(mK) Interior plaster 0.57 W/(mK) Suitable fastening, e.g. mounting frame or bracket, but only protruding as far as necessary for fixing the window	
$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)	$\Psi_{install}$	W/(m K)	
Тор	0.004	Тор	0.006	Тор	0.003	
Side	0.004	Side	0.006	Side	0.003	
Bottom	0.021	Bottom	0.025	Bottom	0.020	
$U_{W,\text{installed}} = 1$.02 W/(m ² K)	U _{W,installed}	= 1.03 W/(m ² K)	U _{W,installed} =	= 1.02 W/(m ² K)	

Frame values	5		Frame width <i>b</i> f mm	U-value frame <i>U_f</i> W/(m ² K)	$arPsi$ -glazing edge $arPsi_g$ W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Flying Mul- lion	(FM1)	1	170	1.17	0.021	0.56
Bottom	(OB1)	4	115	1.03	0.022	0.73
Тор	(OH1)	T	115	1.03	0.022	0.73
Lateral	(OJ1)	<u>11</u>	115	1.03	0.022	0.73
	Spacer: SWISSPACER ULTIMATE Secondary seal: Butyl					

www.passivehouse.com