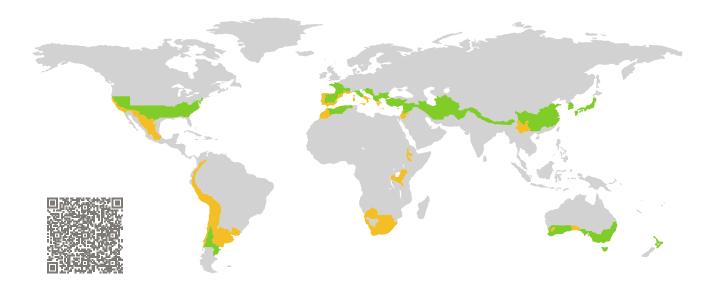
# CERTIFICATE

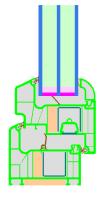
Certified Passive House Component Component-ID 1829wi04 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

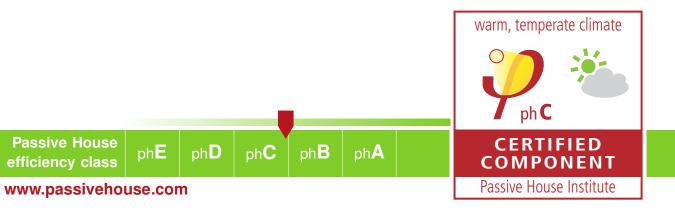


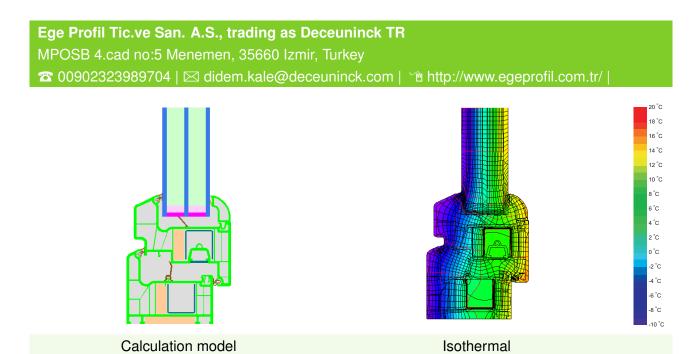
Category:	Window Frame
Manufacturer:	Ege Profil Tic.ve San. A.S., trading as
	Deceuninck TR,
	Izmir,
	Turkey
Product name:	Nirvana

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

Comfort	$U_W$ = 1.00 $U_{W,\text{installed}}$ with $U_g$		1.00 W/(m <sup>2</sup> K) 1.05 W/(m <sup>2</sup> K) 0.90 W/(m <sup>2</sup> K)
Hygiene	<i>f<sub>Rsi=0.25</sub></i>	$\geq$	0.65







#### Description

Vinyl frame with insulation inside the frame (0.036 W/(mK)) and in the connection with the wall (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  $\times$  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:

Glazing	$U_g =$	0.90	0.82	0.74	0.66	W/(m <sup>2</sup> K)
		$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	
Window	$U_W =$	1.00	0.94	0.89	0.83	W/(m <sup>2</sup> 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)		Exterior ir	nsulation and finishing system	Lightweight timber (operable)		
180	140 <b>5</b> 0			48		
$\Psi_{install}$	W/(mK	) $\Psi_{\text{install}}$	W/(m K)	$\Psi_{install}$	W/(m K)	
Тор	0.00	б Тор	0.003	Тор	0.006	
Side	0.00	6 Side	0.003	Side	0.006	
Bottom	0.01	Bottom	0.022	Bottom	0.026	
$U_{W,\text{installed}} =$	$U_{W,\text{installed}} = 1.02 \text{W}/(\text{m}^2 \text{K})$		$U_{W,\text{installed}} = 1.02 \text{W/(m}^2 \text{K})$		$U_{W,\text{installed}} = 1.03 \text{W}/(\text{m}^2 \text{K})$	
Fr		Frame width	U-value frame	$\Psi$ -glazing edge	Temp. Factor	

Frame values	S		Frame width <i>b<sub>f</sub></i> mm	<i>U</i> -value frame <i>U</i> f W/(m <sup>2</sup> K)	$arPsi_{-}$ glazing edge $arPsi_{g}$ W/(m K)	Temp. Factor <i>f<sub>Rsi=0.25</sub></i> [-]	
Flying Mul- lion	(FM1)	1	172	0.99	0.026	0.69	
Bottom	(OB1)	4	119	0.99	0.027	0.71	
Тор	(OH1)	T	119	0.99	0.027	0.71	
Lateral	(OJ1)	11-	119	0.99	0.027	0.71	
	Spacer: SWISSPACER ULTIMATE			E Sec	Secondary seal: Polysulfide		

www.passivehouse.com