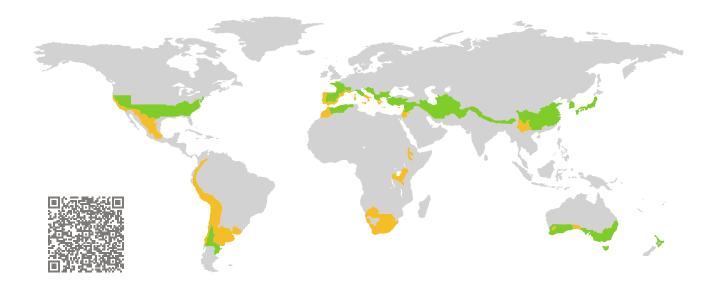
CERTIFICATE

Certified Passive House Component Component-ID 1656wi04 valid until 31st December 2026 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany



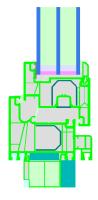
Category:Window FrameManufacturer:GEALAN Fenster-Systeme GmbH,

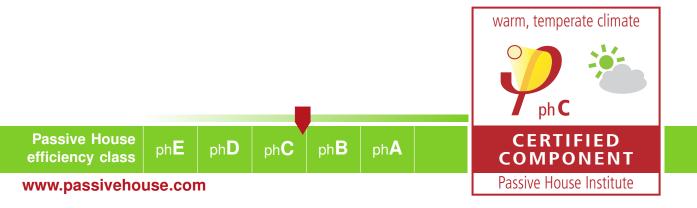
Product name: Certification LINEAR

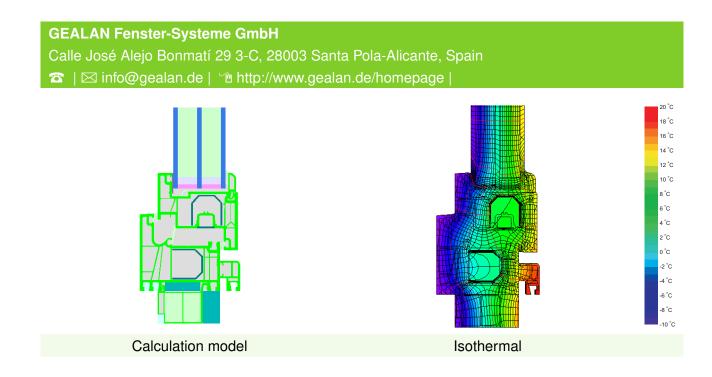
This certificate was awarded based on the following criteria for the warm, temperate climate zone

Comfort	$U_W = 1.00$	\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 insulated EPS-foam, 0.035W/(mK). Frame 7001 with reinforcement 7730 and bottom frame extension 7202 IKD, Profil frame inside 5261, mullion 7060 with reinforcement 7732, sash 7072 STV with reinforcement 7730. Pane thickness: 48 mm (4/18/4/18/4), rebate depth: 14 mm. Spacer: SWISSPACER Ultimate. Maximum window size up to 30 kg/m² glass weight: White and Colored sash 7072 STV 7730 0.90 * 2.1 m.

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	0.55	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	1.00	0.94	0.87	0.76	W/(m ² K)

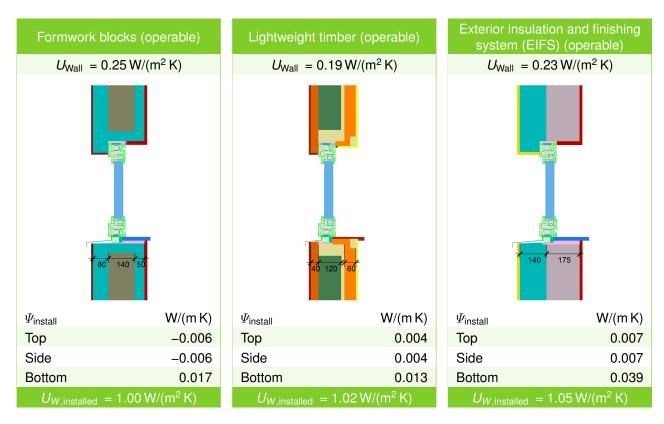
Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations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

Frame values			Frame width <i>b_f</i> mm	<i>U</i> -value frame <i>U</i> f W/(m ² K)	Ψ -panel edge Ψ_g W/(m K)	Temp. Factor f _{Rsi=0.25} [-]
Тор	(to)	ī	110	1.02	0.028	0.68
Side	(s)	K —	110	1.02	0.028	0.68
Bottom	(bo)	Ţ	140	0.99	0.027	0.69
Mullion	(fm)		152	1.22	0.027	0.63
Mullion 1 casement	(m1)	-7-	134	1.22	0.027	0.66
Mullion 2 casements	(m2)	-1-	170	1.23	0.027	0.65
	Spacer: SWISSPACER ULTIMATE Secondary seal: Polysulfid					fid

Validated installations



www.passivehouse.com