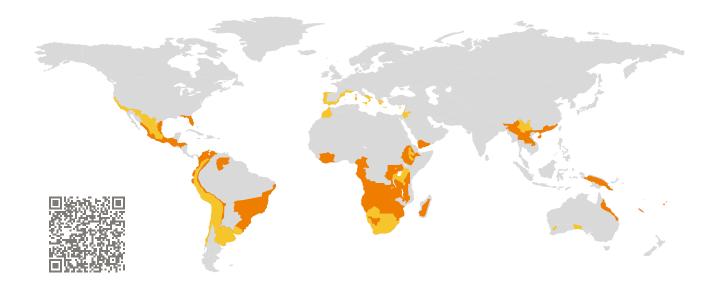
CERTIFICATE

Certified Passive House Component Component-ID 1131wi05 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

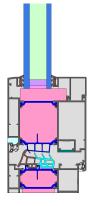


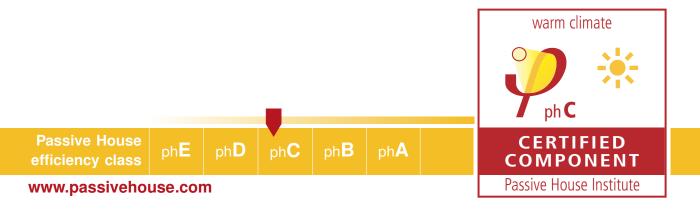
Category:	Window Frame
Manufacturer:	Centroalum S.A,
	Sabadell,
	Spain
Product name:	Renova PR RPT 75 c16

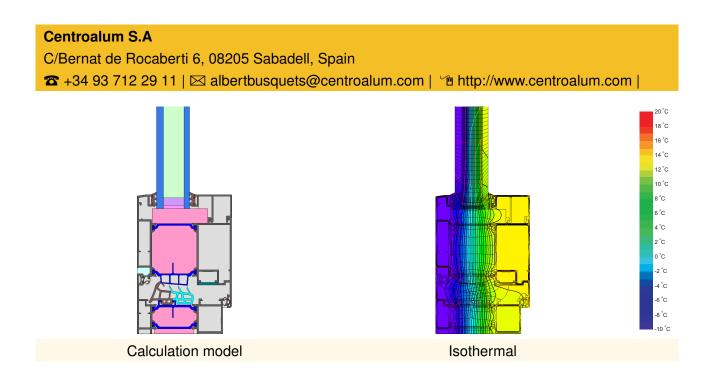
This certificate was awarded based on the following criteria for the warm climate zone

Comfort	<i>U_W</i> = 1.19	\leq	1.20 W/(m ² K)
	$U_{W,\text{installed}}$	\leq	1.25 W/(m ² K)
	with U_g	=	1.10 W/(m ² K)

Hygiene $f_{Rsi=0.25}$ \geq 0.55







Description

Aluminium frame with insulation of PIR-foam (0.023 W/(mK)) and struts of polyamide. Pane thickness: 29 mm (6/18/5//), rebate depth: 12 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 $U_g = 1.10$ W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

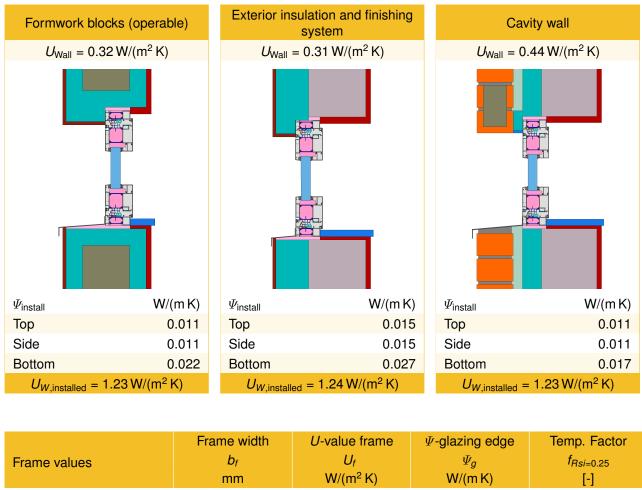
Glazing	$U_g =$	1.10	1.02	0.95	0.90	W/(m ² K)
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	1.19	1.14	1.09	1.06	W/(m ² K)

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



Frame values	S		b _f mm	U _f W/(m ² K)	Ψ_g W/(mK)	f _{Rsi=0.25} [-]	
Flying Mul- lion	(FM1)	1	183	1.10	0.043	0.68	
Bottom	(OB1)	4	123	1.05	0.044	0.69	
Тор	(OH1)	ſ	123	1.05	0.044	0.69	
Lateral	(OJ1)	<u>11</u>	123	1.05	0.044	0.69	
Spacer: SWISSPACER Ultimate				e Seco	Secondary seal: Polysulfide		

www.passivehouse.com