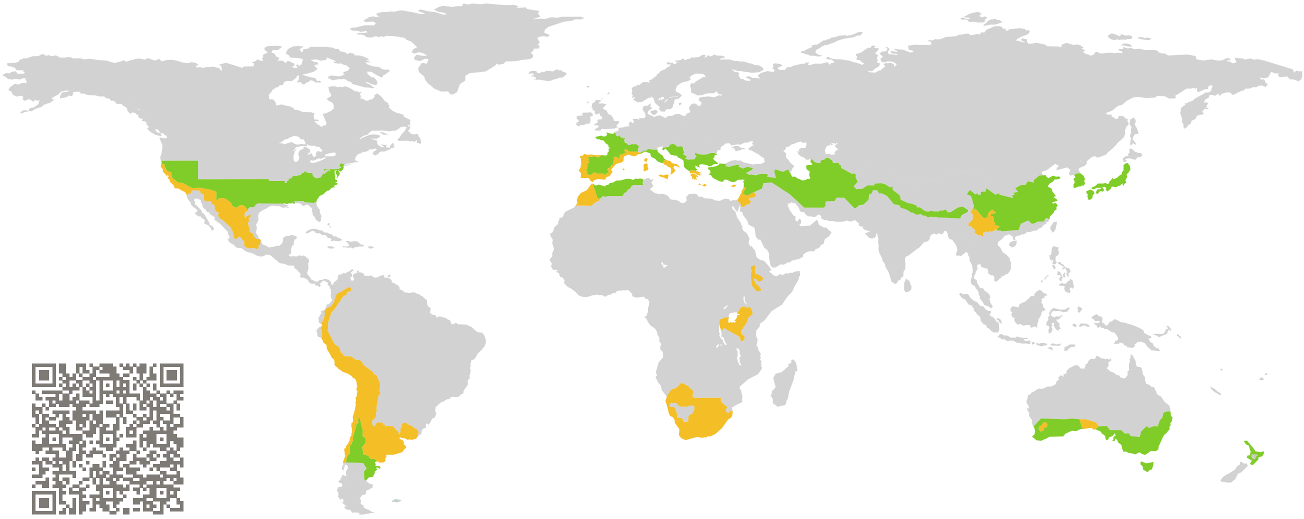
CERTIFICATE

Certified Passive House Component

Component-ID 1226wi04 valid until 31st December 2025

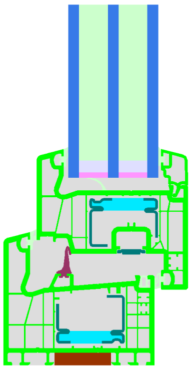
Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Window Frame**

Manufacturer: **Aluminios Cortizo S.A.U.,**
Padron (A Coruna),
Spain

Product name: **A84 Passivhaus 1.0 RPT**



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

Comfort $U_W = 1.00 \leq 1.00\,\mathrm{W/(m^2\,K)}$

$U_{W,\mathrm{installed}} \leq 1.05\,\mathrm{W/(m^2\,K)}$

with $U_g = 0.90\,\mathrm{W/(m^2\,K)}$

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

warm, temperate climate

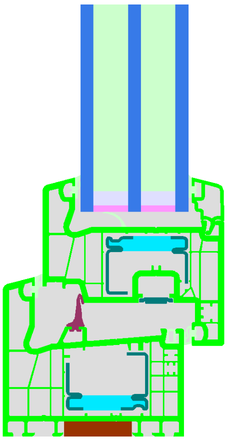
phC

CERTIFIED COMPONENT

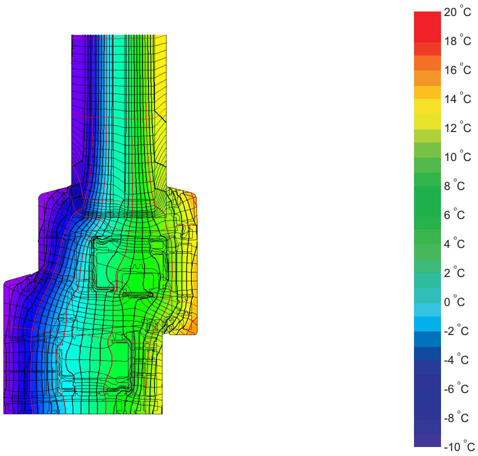
Passive House Institute

Passive House efficiency class phE phD phC phB phA

www.passivehouse.com



Calculation model



Isothermal

Description

PVC window frame, Pane thickness: 50 mm (6/16/6/16/6), rebate depth: 16 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/(m^2 K). If a higher quality glazing is used, the window U-values will improve as follows:

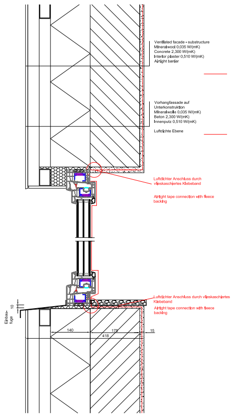
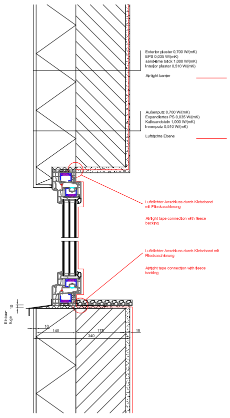
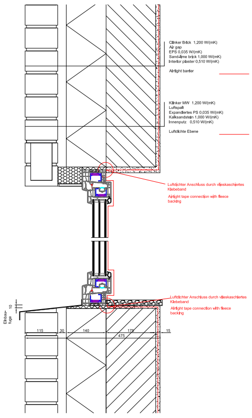
Glazing	U_g =	0.90	0.70	0.64	0.58	W/(m^2 K)
		↓	↓	↓	↓	
Window	U_W =	1.00	0.87	0.83	0.79	W/(m^2 K)

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

Ventilated facade	Exterior insulation and finishing system (EIFS) (operable)	Cavity wall
$U_{\text{Wall}} = 0.22\,\text{W/(m}^2\,\text{K)}$	$U_{\text{Wall}} = 0.23\,\text{W/(m}^2\,\text{K)}$	$U_{\text{Wall}} = 0.22\,\text{W/(m}^2\,\text{K)}$
		
Ψ_{install} W/(m K)	Ψ_{install} W/(m K)	Ψ_{install} W/(m K)
Top –0.005	Top –0.005	Top –0.005
Side –0.005	Side –0.005	Side –0.005
Bottom 0.012	Bottom 0.011	Bottom 0.012
$U_{W,\text{installed}} = 1.00\,\text{W/(m}^2\,\text{K)}$	$U_{W,\text{installed}} = 1.00\,\text{W/(m}^2\,\text{K)}$	$U_{W,\text{installed}} = 1.00\,\text{W/(m}^2\,\text{K)}$

Frame values		Frame width b_f mm	U-value frame U_f W/(m^2 K)	Ψ-glazing edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Flying Mullion	(FM1)	164	0.96	0.027	0.69
Bottom	(OB1)	120	1.01	0.028	0.71
Top	(OH1)	120	1.01	0.028	0.71
Lateral	(OJ1)	120	1.01	0.028	0.71

Spacer: SWISSPACER Ultimate Secondary seal: Polysulfide