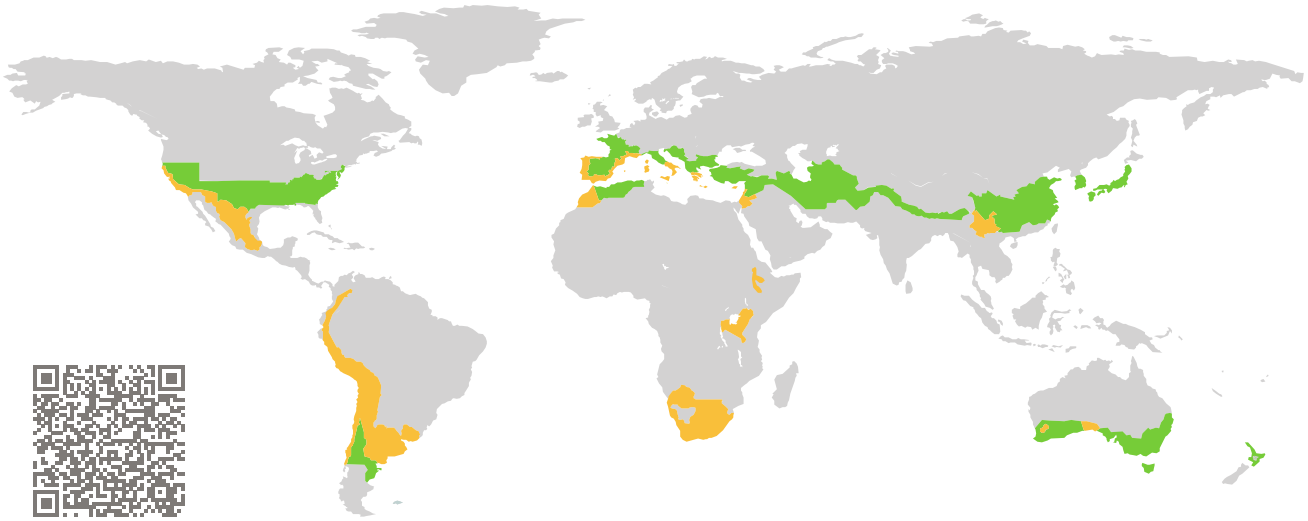
CERTIFICATE

Certified Passive House Component

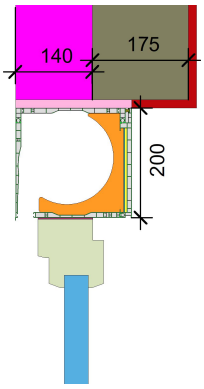
Component-ID 1900rs04 valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category:	**Sun protection (Roller shutter)**
Manufacturer:	**Persax, Villena-Alicante, Spain**
Product name:	**Energy Cube Passive**

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



Efficiency: $\Delta U = 0.15 \leq 0.16$ W/(m²K)

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

warm, temperate climate

CERTIFIED COMPONENT
Passive House Institute

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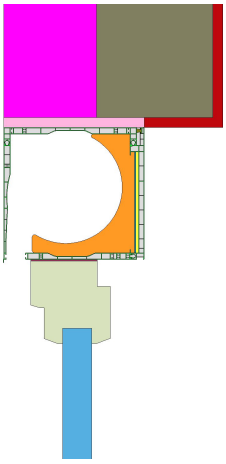
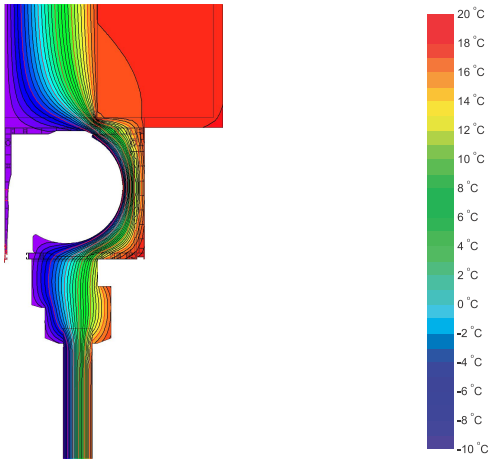


Calculation model



Isothermal

Description

Vinyl shutter casing with EPS (0.032 W/(mK)) inlay. The casement box is mounted directly on the frame. Available in two sizes, 185 mm for balcony door height and 200 mm for window and balcony door height. In its 200 mm size, it incorporates an acoustic sheet on the front. The casement in size 200 mm can be used for a maximum height of 2500 mm. The casement in size 185 mm can be used for a maximum height of 2615 mm.
PHI standard frame representing a wooden or vinyl frame. Conductivity: 0.113 W/(mK), depth: 100 mm Pane thickness: 44 mm (4/16/4/16/4), rebate depth: 23mm Spacer: PHI class phB with polysulfide as secondary seal.

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.

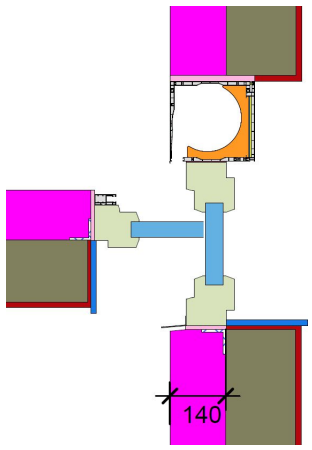
Frame values		Frame width b_f mm	U-value frame U_f W/(m² K)	Ψ-glazing edge Ψ_g W/(m K)	Temp. Factor $f_{Rsi=0.25}$ [-]
Bottom	(OB1)	125	0.92	0.038	0.67
Top	(OH1)	125	0.92	0.038	0.67
Lateral	(OJ1)	125	0.92	0.038	0.67

Spacer: PHI phB-Spacer | Secondary seal: Polysulfid

Validated installations

Exterior insulation and finishing system (EIFS) (operable)

U_{Wall} = 0.22 W/(m² K)



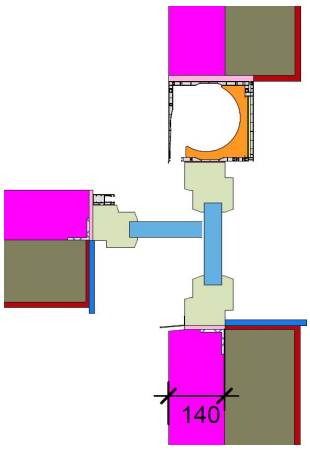
$\Psi_{install}$	W/(m K)
Top	0.183
Side	0.008
Bottom	0.018

$U_{W,installed}$ = 1.15 W/(m² K)

Window size: 1.23 m x 1.48 m

Exterior insulation and finishing system (EIFS) (operable)

U_{Wall} = 0.22 W/(m² K)



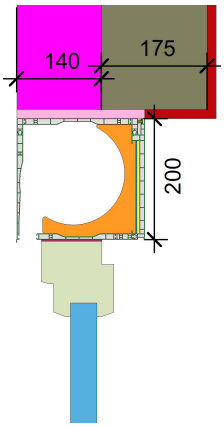
$\Psi_{install}$	W/(m K)
Top	0.183
Side	0.008
Bottom	0.018

$U_{W,installed}$ = 1.11 W/(m² K)

Window size: 1.10 m x 2.20 m

Shading 140 mm insulation (200 mm casement)

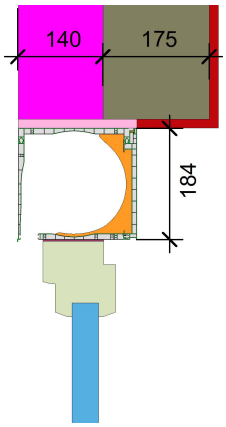
U_1 = 0.22 [W/(m^2 K)]



$\Psi_{install}$ = 0.18 W/(m K)

Shading 140 mm insulation (185 mm casement)

U_1 = 0.22 [W/(m^2 K)]



$\Psi_{install}$ = 0.25 W/(m K)