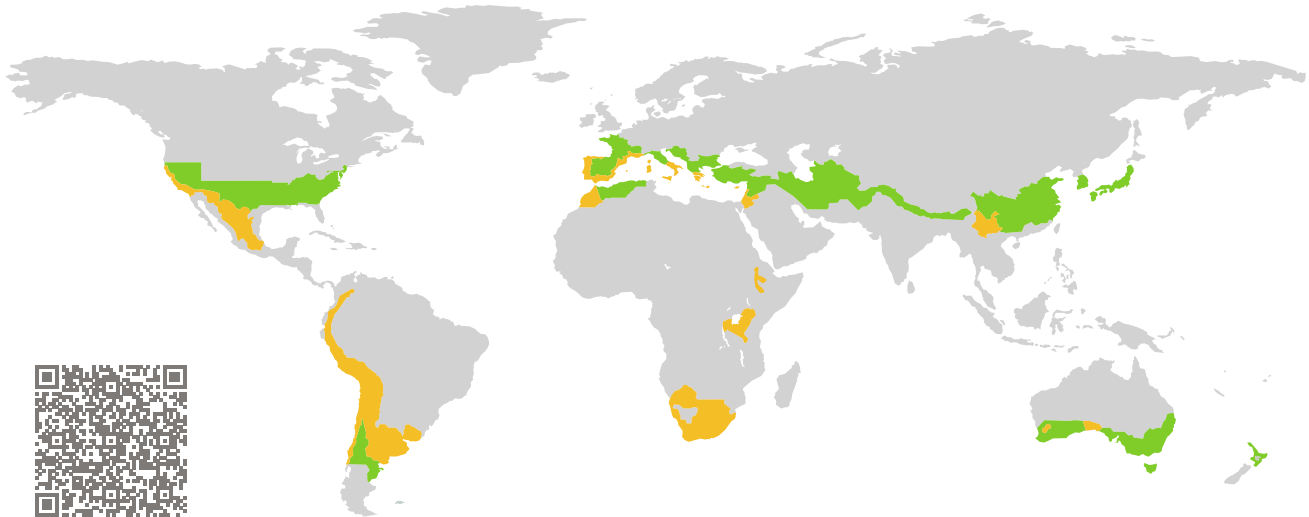


CERTIFICATE

Certified Passive House Component

Component-ID 2294rs04 valid until 31st December 2026

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Sun protection (Roller shutter)**

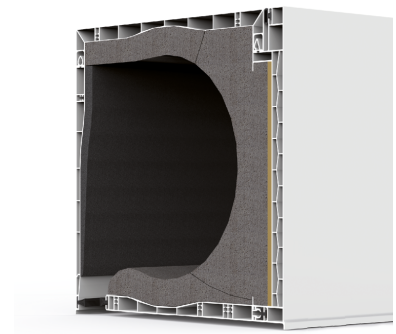
Manufacturer: **LUXE PERFIL, S.L.U.,
Chiva,
Spain**

Product name: **RT-BOX Passive**

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

Efficiency: $\Delta U \leq 0.16 \text{ W/(m}^2\text{K)}$

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

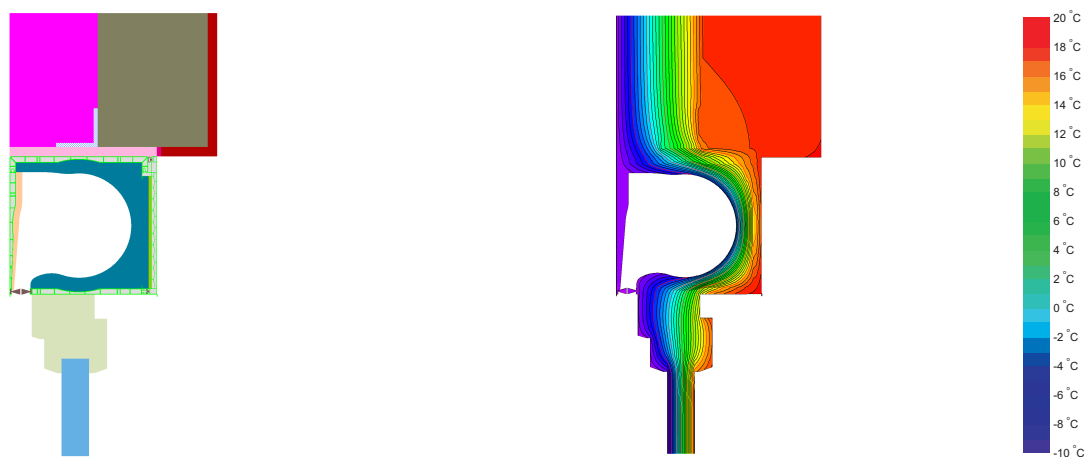


warm, temperate climate



**CERTIFIED
COMPONENT**

Passive House Institute



Calculation model

Isothermal

Description

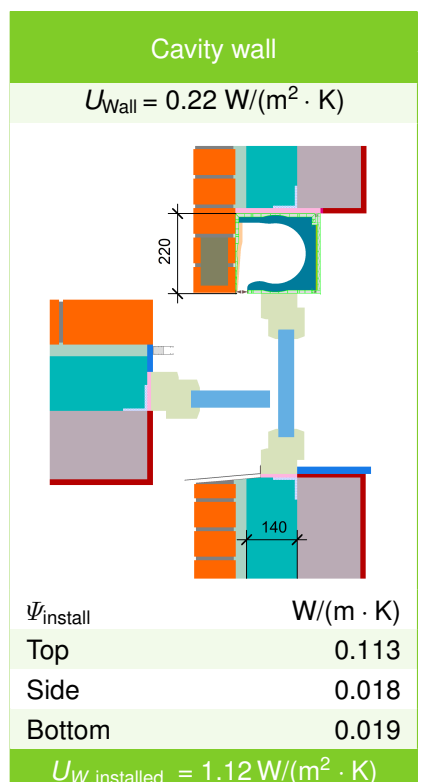
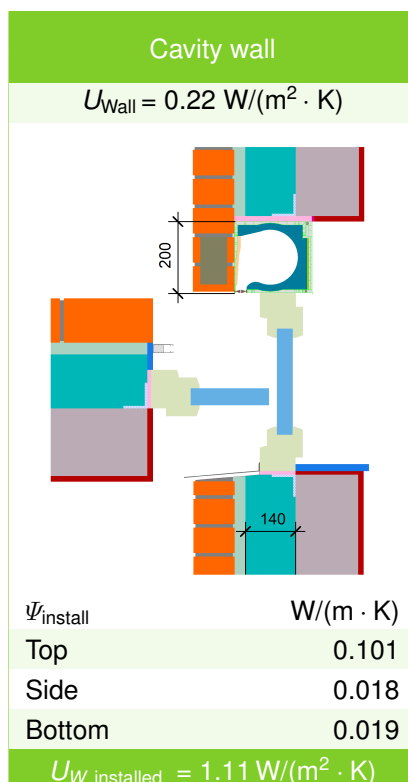
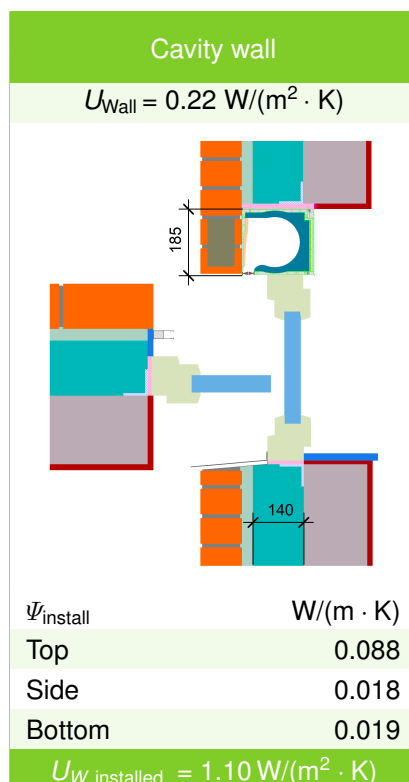
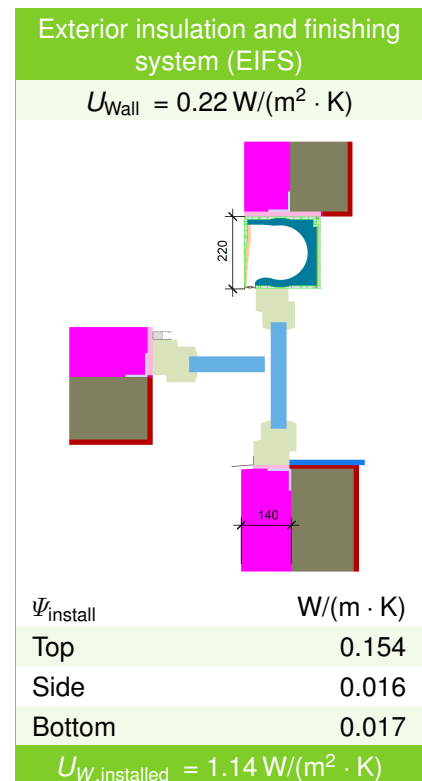
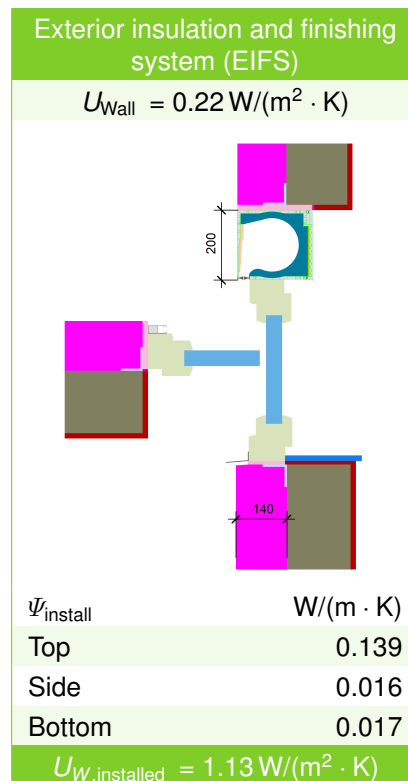
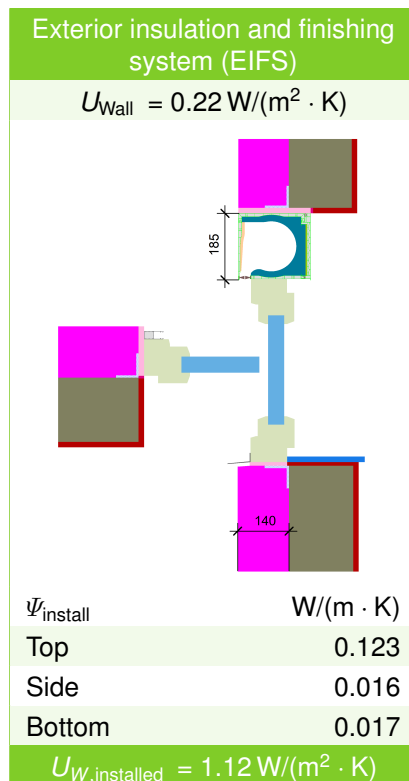
PVC Roller shutter box with EPS (0.031 W/(mK)) and PE (0.038W/(mK)) thermal insulation. Sound-proofing membrane 3.5 mm thick. Casing height: 185, 200 and 220 mm, maximum shading length up to 3240 mm. PHI standard frame representing a wooden or vinyl frame. Conductivity: 0.113 W/(mK). Depth: 100 mm. Pane 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.

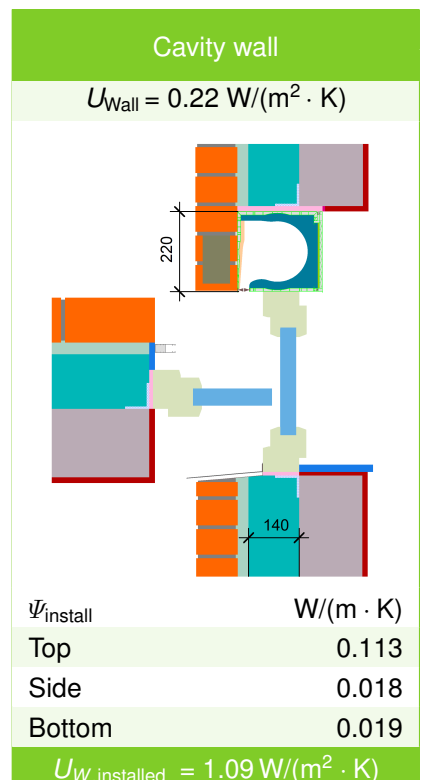
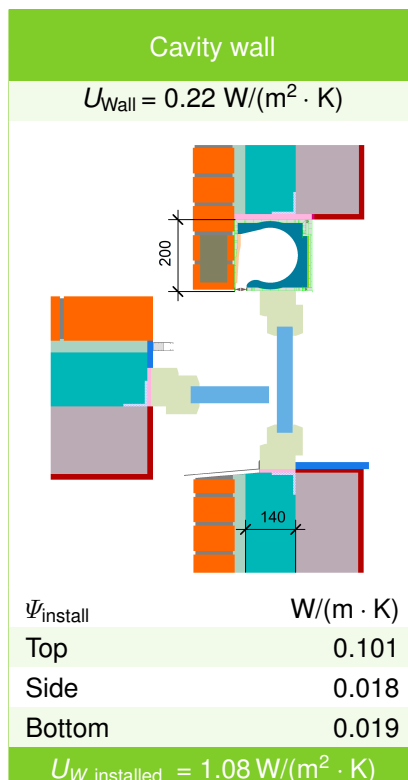
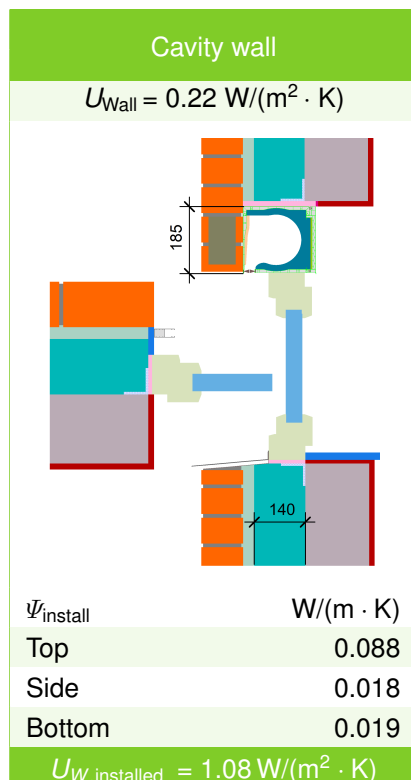
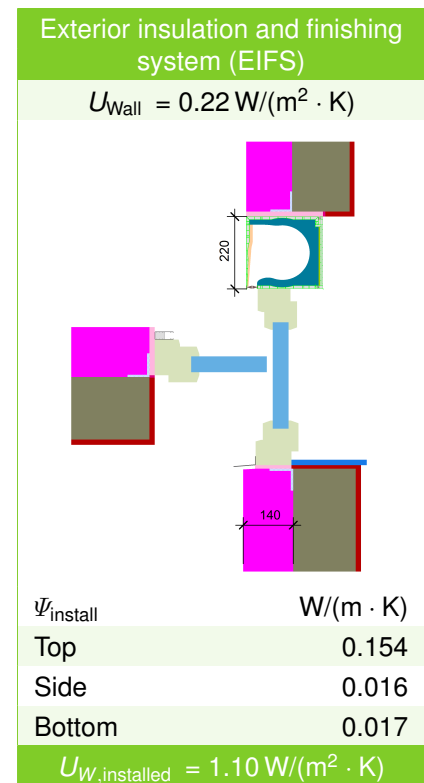
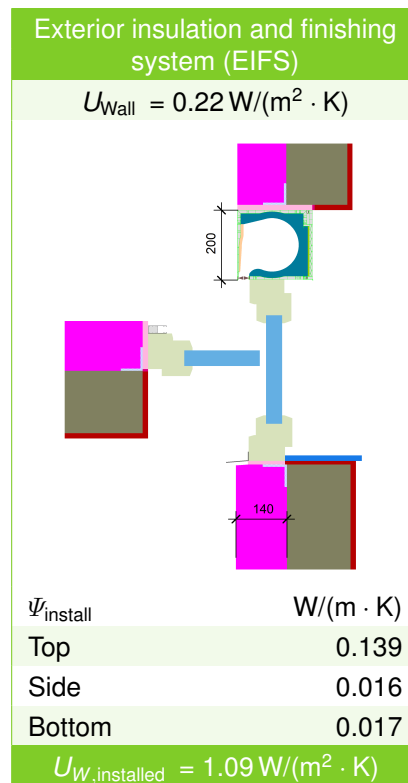
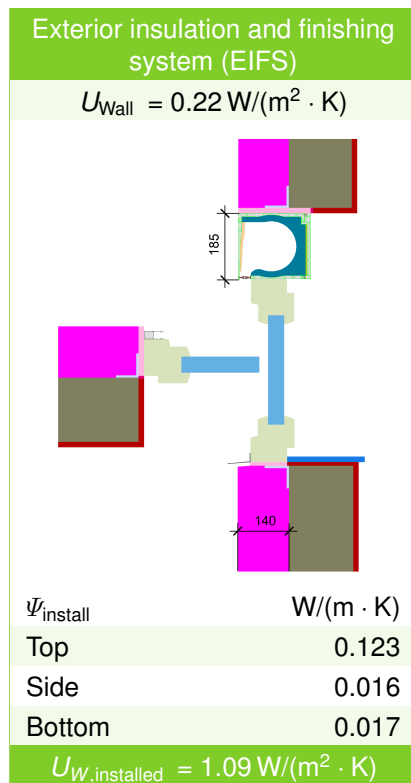
Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

Frame values		Frame width b_f mm	U -value frame U_f W/(m ² · 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
Side	(OJ1) 	125	0.92	0.038	0.67
Spacer: PHI phB-Spacer			Secondary seal: Polysulfide		

Validated installations (1.23 m × 1.48 m)

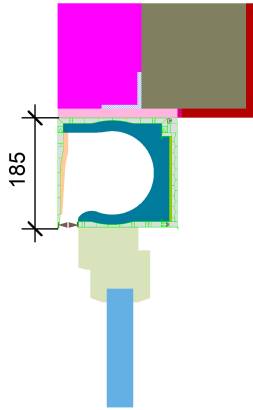


Validated installations (1.1 m × 2.2 m)



EIFS (185 mm casement)

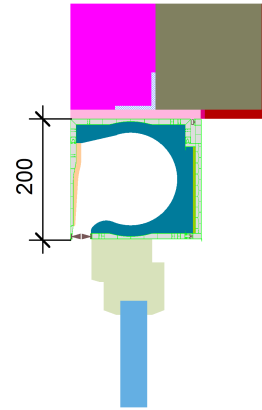
$$U_1 = 1.12 \quad U_2 = 1.09 \quad [\text{W}/(\text{m}^2 \cdot \text{K})]$$



$$\Psi_{\text{install}} = 0.12 \text{ W}/(\text{m} \cdot \text{K})$$

EIFS (200 mm casement)

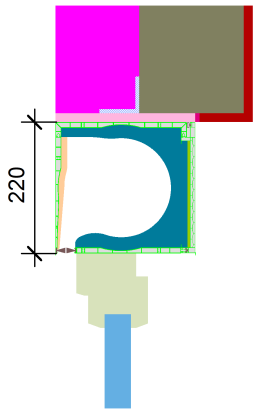
$$U_1 = 1.13 \quad U_2 = 1.09 \quad [\text{W}/(\text{m}^2 \cdot \text{K})]$$



$$\Psi_{\text{install}} = 0.14 \text{ W}/(\text{m} \cdot \text{K})$$

EIFS (220 mm casement)

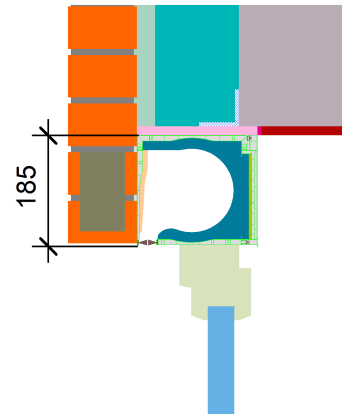
$$U_1 = 1.14 \quad U_2 = 1.10 \quad [\text{W}/(\text{m}^2 \cdot \text{K})]$$



$$\Psi_{\text{install}} = 0.15 \text{ W}/(\text{m} \cdot \text{K})$$

Cavity wall (185 mm casement)

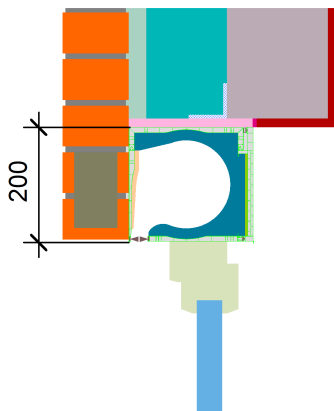
$$U_1 = 1.10 \quad U_2 = 1.07 \quad [\text{W}/(\text{m}^2 \cdot \text{K})]$$



$$\Psi_{\text{install}} = 0.09 \text{ W}/(\text{m} \cdot \text{K})$$

Cavity wall (200 mm casement)

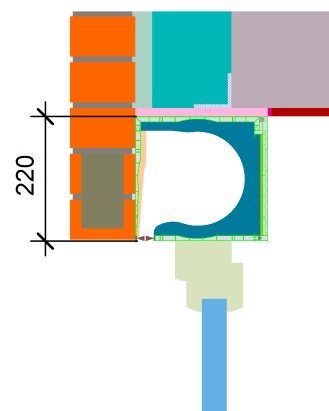
$$U_1 = 1.11 \quad U_2 = 1.08 \quad [\text{W}/(\text{m}^2 \cdot \text{K})]$$



$$\Psi_{\text{install}} = 0.10 \text{ W}/(\text{m} \cdot \text{K})$$

Cavity wall (220 mm casement)

$$U_1 = 1.12 \quad U_2 = 1.08 \quad [\text{W}/(\text{m}^2 \cdot \text{K})]$$



$$\Psi_{\text{install}} = 0.11 \text{ W}/(\text{m} \cdot \text{K})$$

