

Certificate

Certified Passive House component

for cool, temperate climate, valid until 31.12.2025

Category: **Facade anchor**
 Manufacturer: **ECO Cladding**
Winchester, 22603 USA
 Product name: **Sigma Bracket V.260R6,5X3**

The following criteria were used in awarding this certificate:

Efficiency Criterion

In a typical application*, the construction fulfills the requirements of

$$\text{Eff.}_{fa} \leq 0.200 \text{ W/(kNK)}$$

Comfort Criterion

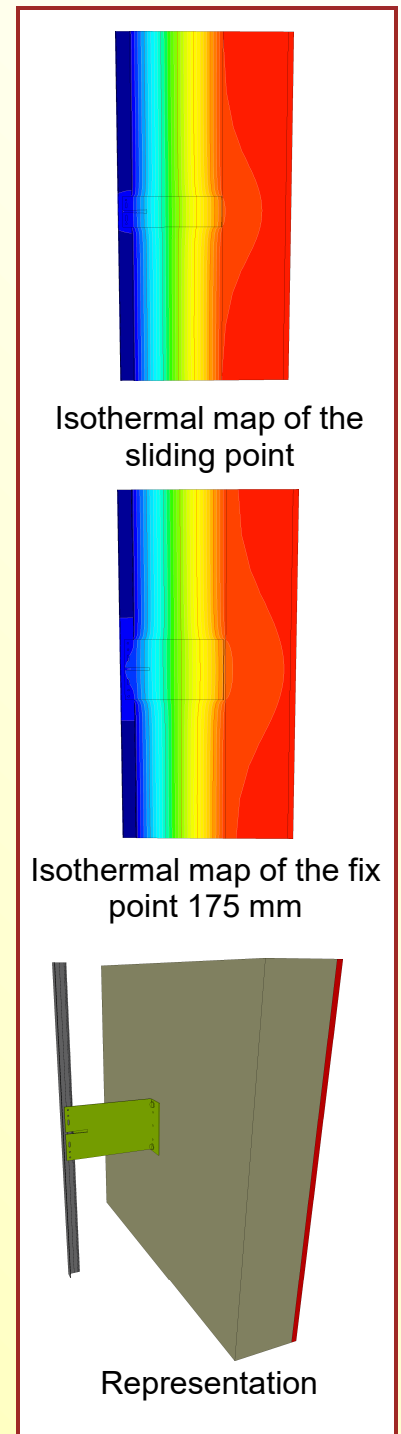
The inner surface must be warm enough to prevent mold as well as uncomfortable down-draught and radiation losses.

$$\theta_{i,min} \geq 17^{\circ}\text{C}$$

Thermal data of the certified component

Sigma Bracket V.260R6,5X3	Thermal bridge coefficient	Minimum interior surface temperature
	χ [W/K]	$\theta_{i,min}$ [°C]
Sliding point	0.0134	19.33
Fix point 90 mm	0.0134	19.33
Fix point 175 mm	0.0249	19.22

* The criterion has been validated with a representative facade of a school building



cool, temperate climate



CERTIFIED COMPONENT

Passive House Institute

Data sheet ECO CLADDING - Sigma Bracket V.260R6,5X3

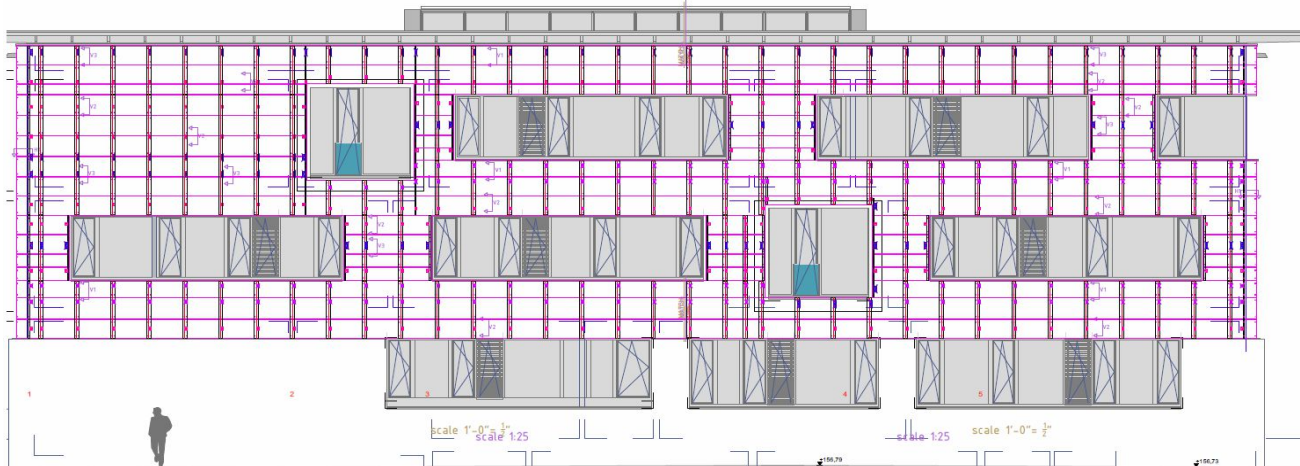
Manufacturer ECO CLADDING
 704 Baker Ln Suite 5, Winchester, 22603, USA
 info@ecocladding.com
 www.ecocladding.com

Criteria validated based on reference facade	ΔU [W/m ² K]
LC I	0.0159
LC II	0.0273
LC VI	0.0368

In order to validate the suitability, the manufacturer provides a static calculation and an associated installation plan for the reference facade.

Load class / Facade weight		Thermal bridge coefficients [W/K]				Efficiency
LC	[kN/m ²]	X _{FP90}	X _{FP175}	X _{SP}	-	[W/(kNK)]
I	0.08	0.0134	0.0249	0.0134		0.1893
II	0.15	0.0134	0.0249	0.0134		0.1821
VI	0.44	0.0134	0.0249	0.0134		0.0837

Load class	Efficiency	ΔU	Quantity / m ²			
			FP ₉₀	FP ₁₇₅	SP	-
LC	[W/(kNK)]	[W/m ² K]				
I	0.1893	0.0159	0.635	0.00	0.555	
II	0.1821	0.0273	0.069	0.966	0.949	
VI	0.0837	0.0368	0.743	0.515	1.052	



Installation-plan reference facade of the certified component (LC VI)

Load-class (LC)	Facade cladding	Facade weight [kN/m ²]	Efficiency criterion fulfilled?
I	Aluminium laminated	0.08	yes
II	Plastic	0.15	yes
III	Fiber-cement plates	0.20	yes
IV	Acrylic glass	0.25	yes
V	Ceramics	0.30	yes
VI	Stone	0.44	yes

The classification criteria and the load class allocation can be found in the current criteria "Zertifizierte Passivhaus Komponente – Fassadenanker, Version 2.0, 08.05.2017".