

Certificate

Certified Passive House component

for cool, temperate climate, valid until 31.12.2024

Category: **Facade anchor**
 Manufacturer: **Systea GmbH**
24588 Henstedt-Ulzburg, GERMANY
 Product name: **Edelstahlhalter**

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

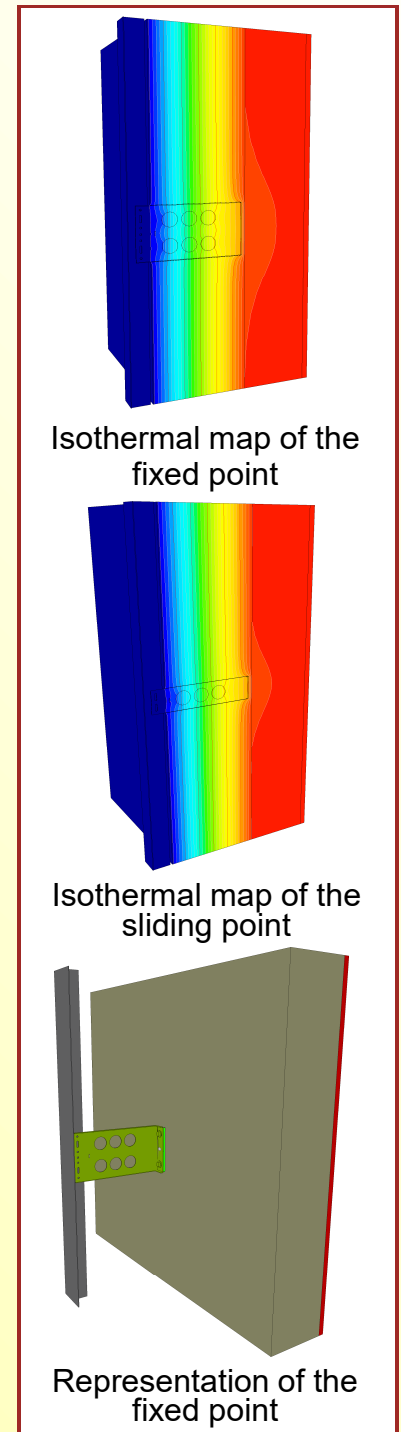
The inner surface must be warm enough to prevent mould as well as uncomfortable down-drafts and radiation losses.

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

Thermal data of the certified component

SYSTEA Edelstahl- halter	thermal bridge coefficient χ [W/K]	minimum inner surface temperature $\theta_{i,\min}$ [°C]
Fixed point	0.0106	19.37
Sliding point	0.0055	19.42

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



Data sheet Systea GmbH, Edelstahlhalter

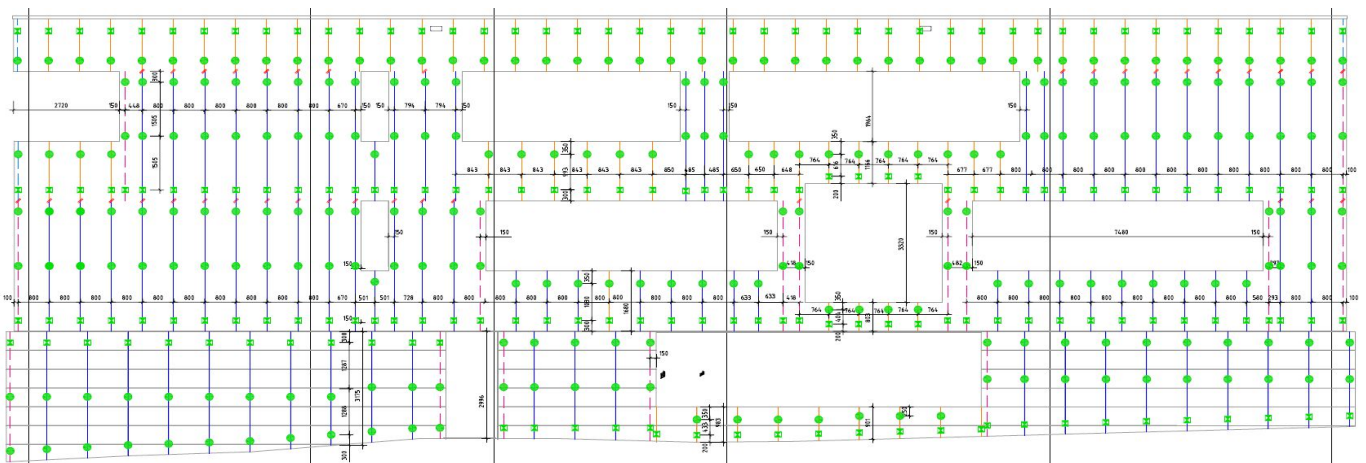
Manufacturer Systea GmbH
 Margarete-Steiff-Str. 6, 24588 Henstedt-Ulzburg
 Tel.: +49 4193 9911-40
<https://systea.systems/>

Criteria validated based on reference facade	ΔU [W/m²K]
LC V	0.0105

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

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".

Load class / Facade weight		Thermal bridge coefficients [W/K]			
LC	[kN/m ²]	X _{GP}	X _{FP}	X _{FP150}	-
V	0.35	0.0055	-	0.0106	-
Efficiency	ΔU	Quantity / m ²			
[W/(kNK)]	[W/m ² K]	GP	FP	FP150	-
0.0299	0.0105	0.82	-	0.56	-



Installation-plan reference facade of the certified component

Load-class (LC)	Facade cladding	Facade weight [kN/m ²]	Efficiency criterion fulfilled?
I	Aluminium laminated	0.10	yes
II	Plastic	0.15	yes
III	Fibre-cement plates 10mm	0.20	yes
IV	Acrylic glass	0.25	yes
V	Fibre-cement plates 20mm	0.35	yes
VI	Concrete	0.60	not evaluated