Certificate

Certified Passive House component
for cool, temperate climate, valid until 31.12.2023

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

Eff.fa ≤ 0.200 W/(kNK)

Comfort Criterion
The inner surface must be warm enough to prevent mould as well as uncomfortable down-drafts and radiation losses.
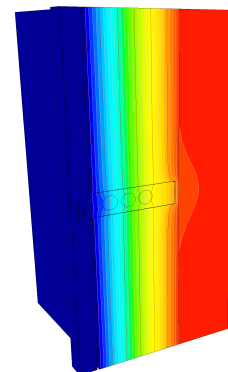
$\theta_{i,min}$ ≥ 17°C

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 represantative facade of a school building

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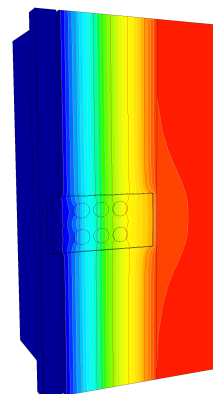
Isothermal map of the fixed point

Isothermal map of the sliding point
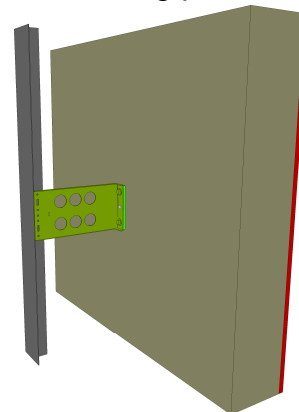
Representation of the fixed point

cool, temperate climate

phA

CERTIFIED COMPONENT

Passive House Institute

Data sheet Systea GmbH, Edelstahlhalter

Manufacturer　Systea GmbH
Margarete-Steiff-Str. 6, 24588 Henstedt-Ulzburg

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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 statical 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/m²]**	X_{GP}	X_{FP}	X_{FP150}	**-**
V	0.35	0.0055	-	0.0106	-
Efficiency	**ΔU**	**Quantity / m²**			
[W/(kNK)]	**[W/m²K]**	**GP**	**FP**	**FP150**	**-**
0.0299	0.0105	0.82	-	0.56	-
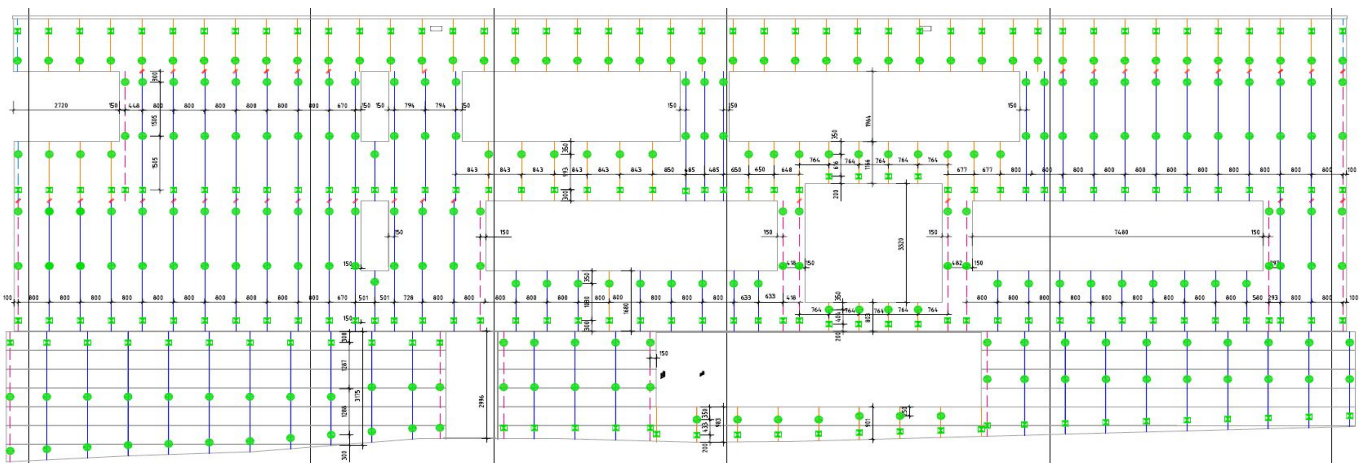
Installation-plan reference facade of the certified component

Load-class (LC)	Facade cladding	Facade weight [kN/m²]	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