Certificate

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

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
GERMANY

Category: **Facade anchor**
Manufacturer: **GIP GmbH**
38122 Braunschweig, GERMANY
Product name: **VECO-Isotherm**

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

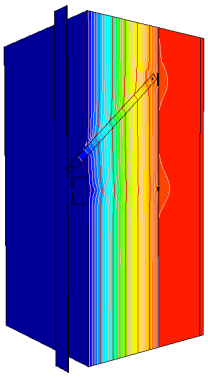
The inner surface must be warm enough to prevent mould as well as uncomfortable down-drought and radiation losses.

$\theta_{i,min}$ ≥ 17°C

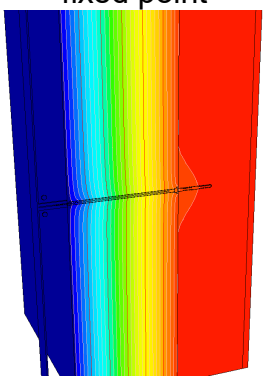
Thermal data of the certified component

VECO-Isotherm	thermal bridge coefficient χ [W/K]	minimum inner surface temperature $\theta_{i,min}$ [°C]
Fixed point	0.0045	19.44
Sliding point	0.0029	19.45

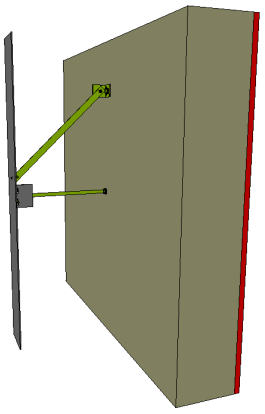
* The criterion has been validated with a represantative facade of a school building



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 GIP GmbH, VECO-Isotherm

Manufacturer GIP GmbH
Friedrich-Seele-Straße 1b, 38122 Braunschweig
Tel.: +49 531 20 900 415
www.gip-fassade.com

Validation on reference facade	ΔU [W/m²K]
LC VI	**0.0065**

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]**			
-	[kN/m²]	X_{FP}	-	X_{SP}	-
VI	0.32	0.0045		0.0029	
[W/(kNK)]	**[W/m²K]**	**Quantity / m²**			
Efficiency	**ΔU**	**FP1**	**FP2**	**SP1**	**SP2**
0.2030	0.0065	0.65		1.23	

Installation-plan reference facade of the certified component

Load-class	Facade cladding	Facade weight [kN/m²]	Efficiency criterion fulfilled?
I	Aluminium laminated	0.100	yes
II	Plastic	0.150	yes
III	Fibre-cement plates	0.200	yes
IV	Acrylic glass	0.250	yes
V	Concrete	0.300	yes
VI	Ceramics	> 0.300	yes