

Certificate

Certified Passive House component
for cool, temperate climate, valid until 31.12.2021

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

The following criteria were used in awarding this certificate:

Efficiency Criterion

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

$$Eff_{fa} \leq 0.200 \text{ W/(kNK)}$$

Comfort Criterion

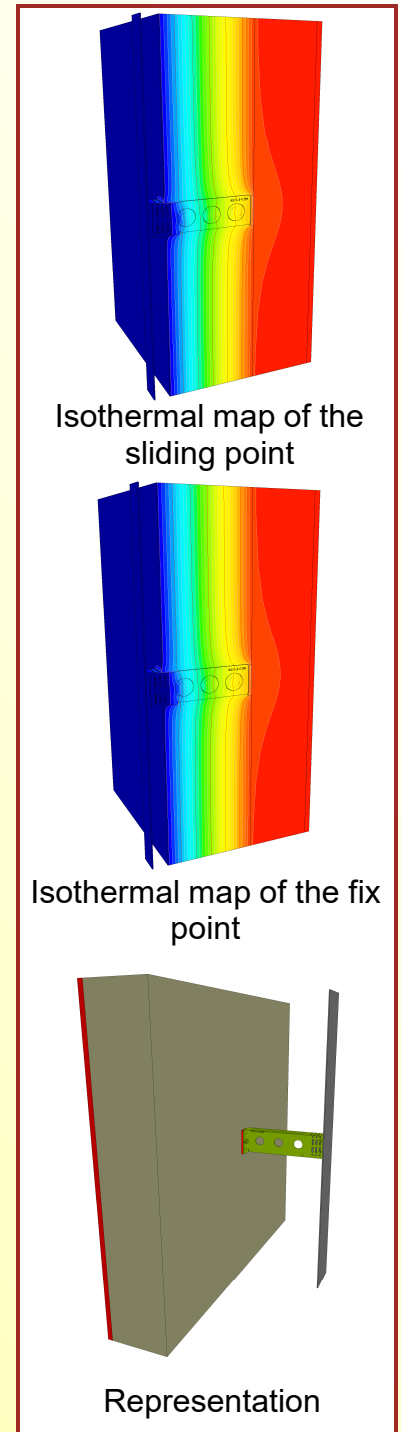
The inner surface must be warm enough to prevent mold as well as uncomfortable down-draught and radiation losses.

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

Thermal data of the certified component

| | Thermal bridge coefficient | Minimum interior surface temperature |
|---------------|----------------------------|--------------------------------------|
| | χ [W/K] | $\theta_{i,min}$ [°C] |
| Sliding point | 0.0080 | 19.37 |
| Fix point | 0.0080 | 19.37 |

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



cool, temperate climate



CERTIFIED COMPONENT

Passive House Institute

Data sheet GIP GmbH, VECO-FLEX

Manufacturer GIP GmbH
 Friedrich-Seele-Straße 1b, 38122 Braunschweig
 www.gip-fassade.com

| | |
|--|---|
| Criteria validated based on reference facade | ΔU [W/m²K] |
| LC V | 0.0177 |

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] | |
|----------------------------|----------------------|-----------------------------------|-----------------|
| LC | [kN/m ²] | X _{FP} | X _{SP} |
| VI | 0.30 | 0.0080 | 0.0080 |
| Efficiency | ΔU | Quantity / m ² | |
| [W/(kNK)] | [W/m ² K] | FP | SP |
| 0.0591 | 0.0177 | 0.825 | 1.404 |



Installation-plan reference facade of the certified component

| Load-class (LC) | Facade cladding | Facade weight [kN/m ²] | Static testing provided? |
|-----------------|---------------------|------------------------------------|--------------------------|
| I | ACM | 0.10 | yes |
| II | HPL | 0.15 | yes |
| III | Fiber-cement-plates | 0.20 | yes |
| IV | Fiber-cement-plates | 0.25 | yes |
| V | Ceramic | 0.30 | yes |
| VI | Stone | 0.35 | not evaluated |

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".