Certificate

Certified Passive House component for cool, temperate climate, valid until 31.12.2020

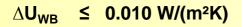
Category:	Facade anchor
Manufacturer:	BWM Dübel- und Montagetechnik GmbH
	70771 Leinfelden- Echterdingen
Product name:	ZeLa bracket

with stainless steel guide bar

The following criteria were used in awarding this certificate:

Efficiency Criterion

In two typical applications*, the construction fulfills the requirements of



Comfort Criterion

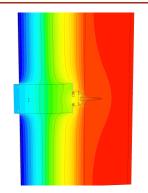
The inner surface must be warm enough to prevent mould as well as uncomfortable down-drought and radiation losses.

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

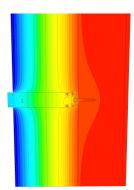
Thermal data of the certified component

ZeLa	thermal bridge coefficient	minimum inner surface temperature
	χ [W/K]	θ _{i,min} [°C]
Fixed point	0.0101	19.34
Sliding point	0.0065	19.39
Fixed point small	0.0065	19.39

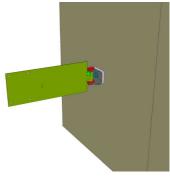
* The criterion has been validated with two represantative building: a row house and a school building. Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY



Isothermal map of the fixed point



Isothermal map of the sliding point



Representation of the fixed point



www.passivehouse.com