# Certificate

**Certified Passive House component** for cool, temperate climate, valid until 31.12.2025

Category: Manufacturer:

Facade anchor thermomass 50036 Boone, Iowa, USA MC45D MC

Product name:

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**

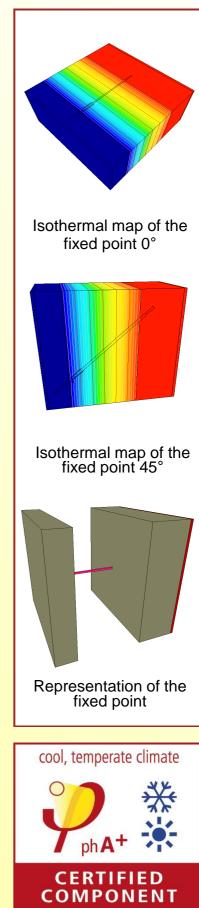
The inner surface must be warm enough to prevent mould as well as uncomfortable down-drought and radiation losses.

# θ<sub>i,min</sub> ≥ 17°C

#### Thermal data of the certified component

MC45D MC	thermal bridge coefficient	minimum inner surface temperature
	χ [W/K]	θ <sub>i,min</sub> [°C]
Fixed point 0°	0.0001	19.48
Fixed point 45°	0.0001	19.48

\* The criterion has been validated with a representative facade of a school building Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY



Passive House Institute

www.passivehouse.com

# Data sheet thermomass, MC45D MC

Manufacturer	thermomass		
	1000 Technology Drive, Boone, Iowa 50036		
	+1 800 232 1748		

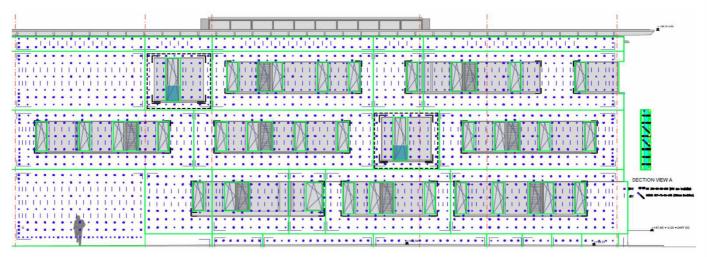
www.thermomass.com

Criteria validated based on reference facade	ΔU [W/m²K]
LC VI	0.0004

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 / F	acade weight	Therma	l bridge c	oefficient	ts [W/K]
-	[kN/m²]	X <sub>FP1</sub>	X <sub>FP2</sub>	X <sub>SP1</sub>	X <sub>SP2</sub>
VI	1.60	0.0001	0.0001	-	-
[W/(kNK)]	[W/m²K]	Quantity / m <sup>2</sup>			
Efficiency	ΔU	FP1	FP2	SP1	SP2



Installation-plan reference facade of the certified component

Load-class	Facade cladding	Facade weight [kN/m <sup>2</sup> ]	Efficiency criterion fulfilled?
I	Aluminium laminated	0.10	not evaluated
II	Plastic	0.15	not evaluated
	Fibre-cement plates	0.20	not evaluated
IV	Acrylic glass	0.25	not evaluated
v	Ceramics	0.30	not evaluated
VI	Concrete	1.60	yes