

Certificate

Certified Passive House component

for cool, temperate climate, valid until 31.12.2026

Category: Facade anchor

Manufacturer: thermomass

50036 Boone, Iowa, USA

Product name: MC45D MC

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 W/(kNK)

Comfort Criterion

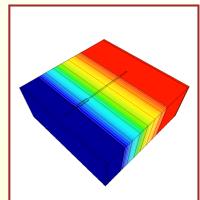
The inner surface must be warm enough to prevent mould as well as uncomfortable down-drought and radiation losses.

θ_{i,min} ≥ 17°C

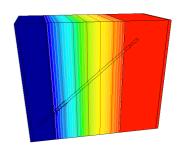
Thermal data of the certified component

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

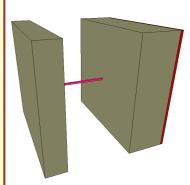
Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY



Isothermal map of the fixed point 0°



Isothermal map of the fixed point 45°



Representation of the fixed point

cool, temperate climate

phA+

CERTIFIED
COMPONENT

Passive House Institute

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



Data sheet thermomass, MC45D MC

Manufacturer thermomass

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+1 800 232 1748 www.thermomass.com

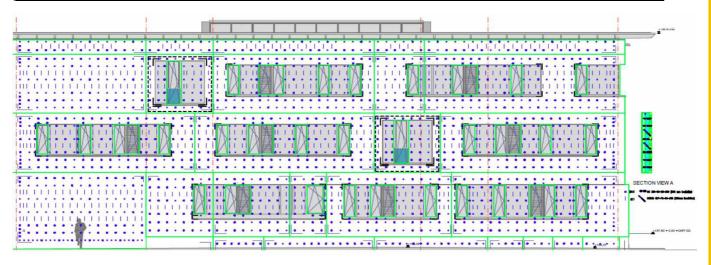
facade LC VI	0.0004	
Criteria validated based on reference	ΔU [W/m²K]	

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

[&]quot;Zertifizierte Passivhaus Komponente – Fassadenanker, Version 2.0, 08.05.2017".

Load class / Facade weight		Thermal bridge coefficients [W/K]			
-	[kN/m²]	X _{FP1}	X _{FP2}	X _{SP1}	X _{SP2}
VI	1.60	0.0001	0.0001	ı	-
[W/(kNK)]	[W/m²K]	Quantity / m ²			
			•		
Efficiency	ΔU	FP1	FP2	SP1	SP2



Installation-plan reference facade of the certified component

Load-class	Facade cladding	Facade weight [kN/m²]	Efficiency criterion fulfilled?
I	Aluminium laminated	0.10	not evaluated
II	Plastic	0.15	not evaluated
III	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