Certificate

Certified Passive House component
for cool, temperate climate, valid until 31.12.2026

Passive House Institute
64283 Darmstadt
GERMANY

Category: **Facade anchor**
Manufacturer: **Hilti Deutschland AG**
86916 Kaufering, GERMANY
Product name: **MFT-VS(I)**

The following criteria were used in awarding this certificate:

Efficiency Criterion

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

Eff.fa ≤ 0.200 W/(kNK)

Comfort Criterion

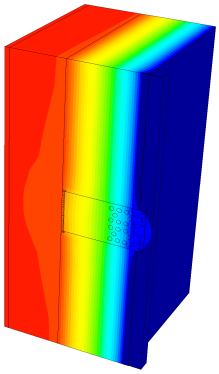
The inner surface must be warm enough to prevent mould as well as uncomfortable down-drafts and radiation losses.

$\theta_{i,min}$ ≥ 17°C

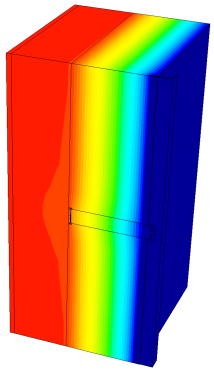
Thermal data of the certified component

	Thermal bridge coefficient χ [W/K]	Minimum interior surface temperature $\theta_{i,min}$ [°C]
MFT VS L (FP)	0,0180	19,28
MFT VS M (FP)	0,0104	19,36
MFT VS S11 (GP)	0,0084	19,38
MFT VSI L (FP)	0,0165	19,30
MFT VSI M (FP)	0,0094	19,38
MFT VSI S11 (GP)	0,0077	19,38

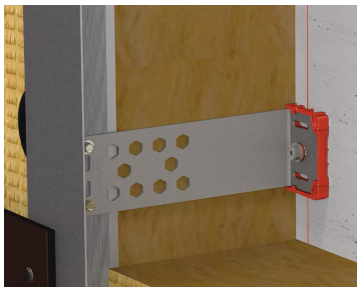
* The criterion has been validated with a representative facade of a school building



Isothermal map MFT-VSI L (fixed point)



Isothermal map MFT-VSI S11 (sliding point)



Representation

cool, temperate climate

CERTIFIED COMPONENT
Passive House Institute

Data sheet Hilti Deutschland AG, MFT-VS(I)

Manufacturer Hilti Deutschland AG
Hiltistraße 2, 86916, Kaufering, Germany
http://www.hilti.de

Criteria validated based on reference facade	**ΔU [W/m²K]**
MFT-VS	**0,0210**
MFT-VSI	**0,0192**

In order to validate the suitability, the manufacturer provides a statical calculation and an associated installation plan for the reference facade.
The calculations are carried out for a reference facade with 24 cm insulation (0.035 W/(mK)).

Type	**Energy efficiency**	**ΔU**	**Quantity / m²**			**Load class (LC)**
	[W/kNK]	**[W/m²K]**	**L**	**M**	**S11**	**[kN/m²]**
MFT-VS	0,0328	0,021	0,76	0,04	0,81	0,60
MFT-VSI	0,0300	0,019	0,76	0,04	0,81	0,60

Installation plan of the certified component on the reference facade (LC VI)

Load class (LC)	**Facade cladding**	**Facade weight**	**Efficiency criterion fulfiled?**	
		[kN/m²]	**MFT-VS**	**MFT-VSI**
I	Aluminium laminated	0.10	no	yes
II	ACM	0.15	yes	yes
III	Fiber-cement plates	0.20	yes	yes
IV	Acrylic glass	0.25	yes	yes
V	Ceramics	0.30	yes	yes
VI	Stone	0.64	yes	yes

The classification criteria and the load class allocation can be found in the current criteria "Certified Passive House components – Facade anchors, Version 2.2, 03.09.2024".