Certificate

Certified Passive House component for cool-temperate climate, valid until 31.12.2022

Category: Manufacturer: Facade anchor Hilti Deutschland AG 86916 Kaufering GERMANY FOX - VTR

Product name:

The following criteria were used in awarding this certificate:

Efficiency Criterion

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



Comfort Criterion

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

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

Thermal data of the certified component

	Thermal bridge coefficient	Minimum interior surface temperature	
	χ [W/K]	θ _{i,min} [°C]	
Sliding point	0.0099	19.20	
Sliding point & M-SP	0.0089	19.22	
Fixed point	0.0189	19.09	
Fixed point & M-FP	0.0172	19.11	

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

** M-SP and M-FP with 6 mm PVC-thermal-seperator

www.passivehouse.com

Passive House Institute 64283 Darmstadt GERMANY



fixed point



Representation



1654fa03

Data sheet HILTI Deutschland AG, FOX - VTR

Manufacturer	HILTI Deutschland AG	
	Hiltistraße 2, 86916 Kaufering	

www.hilti.de

Criteria validated based on reference facade	Δ _U [W/m²K]		
	FOX VTR	with isolator	
LC I	0.021	0.019	
LC II	0.026	0.024	
LC III	0.033	0.030	

In order to validate the suitability, the manufacturer provides a statical calculation and an associated installation plan for the reference facade.

Load class / Facade weight		Thermal bridge coefficients [W/K]	
LC	[kN/m²]	X _{FP}	X _{SP}
III	0.20	0.0172	0.0089
Efficiency	ΔU	Quantity / m ²	
[W/(kNK)]	[W/m²K]	FP	SP
0.1484	0.0297	1.00	1.40



Installation-plan reference facade of the certified component

Load-class (LC)	Facade cladding	Facade weight [kN/m²]	Efficiency criterion fulfilled?
I	ACM	0.10	yes
II	HPL	0.15	yes
III	Fibre-cement-plates	0.20	yes
IV	Fibre-cement-plates	0.25	not evaluated
v	Glassfacade	0.30	not evaluated
VI	Marble	0.60	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".