Certificate

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

Category: **Facade anchor**

Manufacturer: **fischerwerke GmbH**

                   72178 Waldachtal

                   GERMANY

Product name: **FLH R**

The following criteria were used in awarding this certificate:

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

$$\text{Eff.}_{fa} \quad \leq \quad 0.200 \ \text{W/(kNK)}$$

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

$$\theta_{i,min} \quad \geq \quad 17°C$$
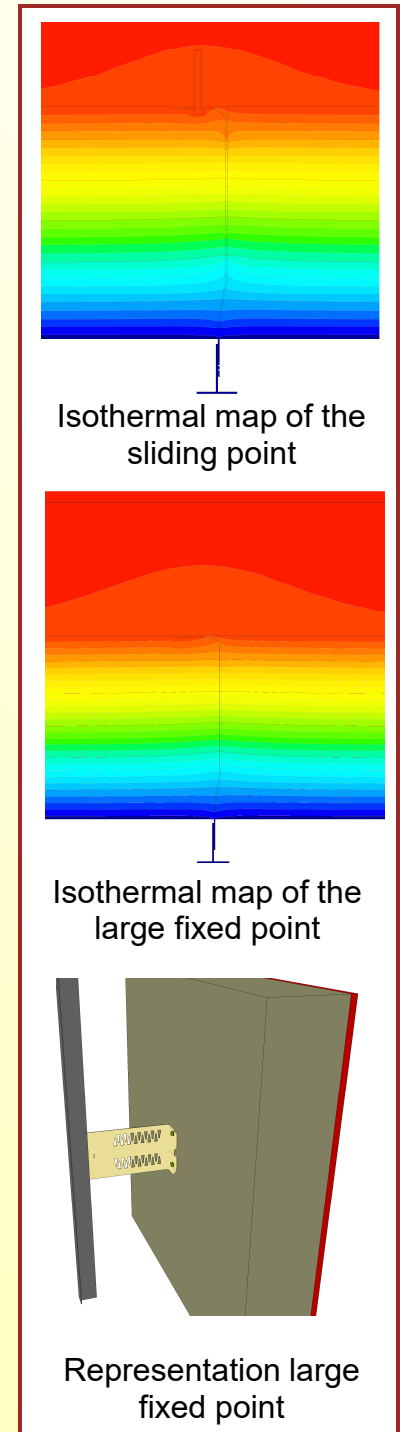
Thermal data of the certified component

fischerwerke GmbH - FLH R	Thermal bridge coefficient ** χ [W/K]	Minimum interior surface temperature $\theta_{i,min}$ [°C]
FLH 70 F-SP R (SP)	0.0044	19.28
FLH 70 F-SP R (FP)	0.0044	19.28
FLH 147 F-SP R (FP)	0.0093	19.22

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

** The thermal bridge loss coefficients refer to a version without a thermal separator

www.passivehouse.com   **1833fa03**

Isothermal map of the sliding point

Isothermal map of the large fixed point

Representation large fixed point

cool, temperate climate

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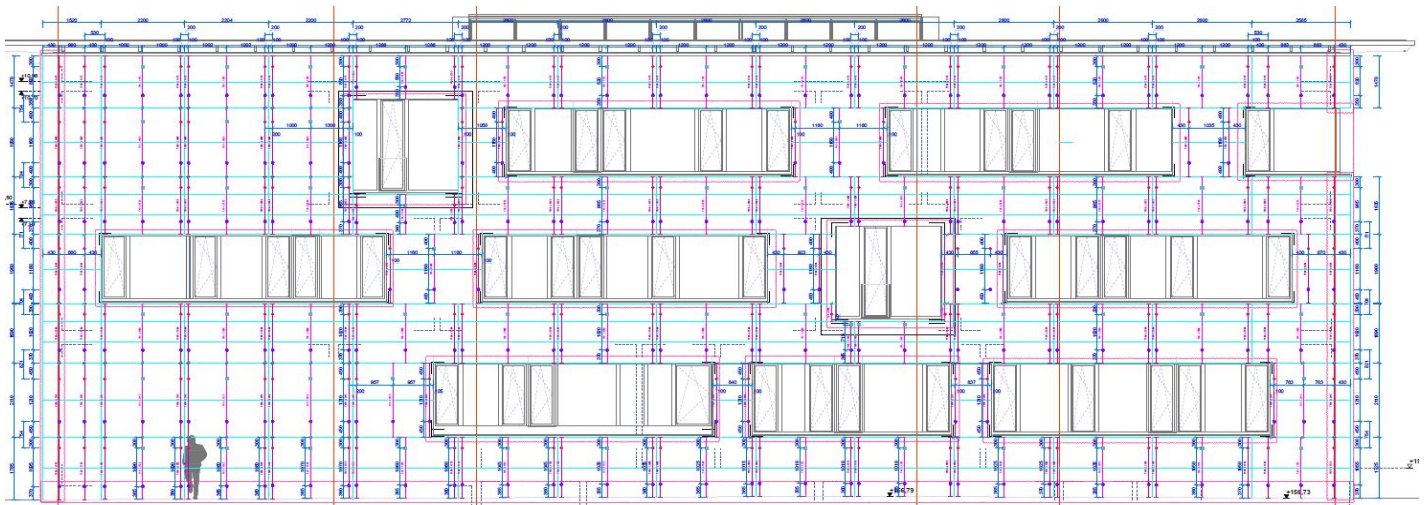**CERTIFIED COMPONENT**

Passive House Institute

Data sheet fischerwerke GmbH, FLH R

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www.fischer-international.com/en/products/facade-systems

Criteria validated based on reference facade	Δ_U [W/(m²K)]
LC V	**0.009**
LC VI	**0.013**

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]**	$X_{FLH\ 70\ F\text{-}SP\ R\ (SP)}$	$X_{FLH\ 70\ F\text{-}SP\ R\ (FP)}$	$X_{FLH\ 147\ F\text{-}SP\ R\ (FP)}$
V	**0.30**	**0.0044**	**0.0044**	**0.0093**
Efficiency	**ΔU**	**Quantity / m²**		
[W/(kNK)]	**[W/(m²K)]**	**FLH 70 F-SP R (SP)**	**FLH 70 F-SP R (FP)**	**FLH 147 F-SP R (FP)**
0.0298	**0.0089**	**0.720**	**0.220**	**0.510**

Installation-plan reference facade of the certified component (LC V)

Load-class (LC)	Facade cladding	Facade weight [kN/m²]	Efficiency criterion fulfilled?
I	Aluminium	0.10	yes
II	ACM Cladding	0.15	yes
III	HPL Cladding	0.20	yes
IV	Fibre cement board	0.25	yes
V	Fibre cement board heavy	0.30	yes
VI	Natural Stone	0.50	yes

The classification criteria and the load class allocation can be found in the current criteria "Certified Passive House Components – Façade Anchor, Version 2.1, 19.05.2021".