

Certificate

Thermal Bridge Free Connection
for cool, temperate climate, valid until 31.12.2025

Passive House Institute
Dr. Wolfgang Feist
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GERMANY

Category: **Facade anchor**
Manufacturer: **mCon Manfred Hoffmann**
Product name: **D-57258 Freudenberg**
mCon Handline-Reihe

The following criteria were used in awarding this certificate:

Efficiency Criterion

In two typical applications*, the construction is

$$\Delta U_{WB} \leq 0,010 \text{ W}/(\text{m}^2\text{K})$$

Comfort Criterion

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

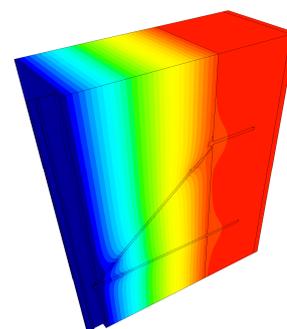
$$\theta_{i,\min} \geq 17^\circ\text{C}$$

Thermal data of the window frame

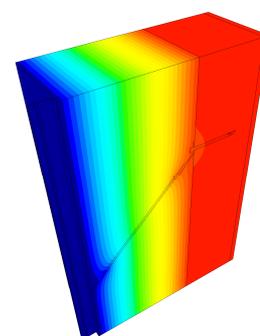
Typ	thermal bridge coefficient χ [W/K]	minimum inner surface temperature $\theta_{i,\min}$ [°C]
Triangle	0.003	19.48
Horizontal rod	0.002	19.48
Angular rod	0.001	19.50

* The criterion was validated on both, a row house and a school building.

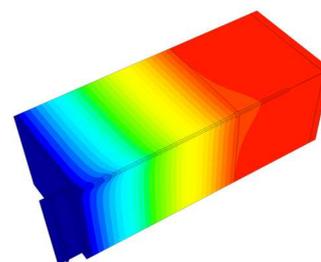
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Isothermal map of the triangle



Isothermal map of the angular rod



Isothermal map of the horizontal rod

cool, temperate climate



CERTIFIED COMPONENT

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