

Certificate

Thermal Bridge Free Connection

for cool, temperate climate, valid until 31.12.2018

Passive House Institute
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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

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

Comfort Criterion

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

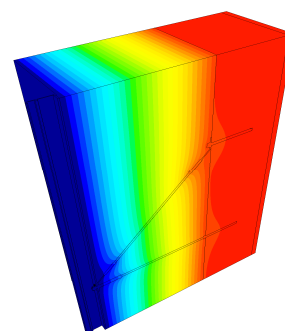
$$\theta_{i,min} \geq 17^\circ\text{C}$$

Thermal data of the window frame

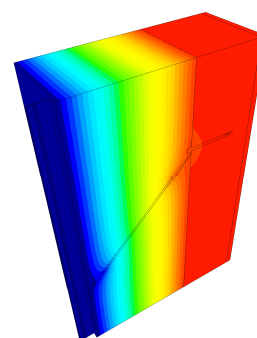
Typ	thermal bridge coefficient χ [W/K]	minimum inner surface temperature $\theta_{i,min}$ [°C]
Triangle	0.003	19.48
Horizontal rod	0.002	19.48
Angular rod	0.001	19.50

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

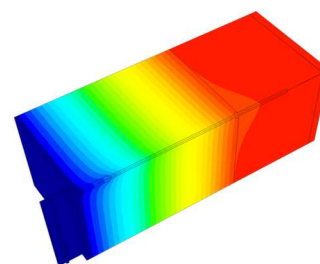
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Isothermal map of the triangle



Isothermal map of the angular rod



Isothermal map of the horizontal rod

cool, temperate climate



**CERTIFIED
COMPONENT**

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