Certificate

valid until 31.12.2025

Passivhaus Institut
Rheinstraße 44/46
D-64283 Darmstadt

Balcony connection

Low Energy Component

Schöck Isokorb® XT Typ SK
180 - 220 mm slab thickness

Manufacturer: **Schöck Bauteile GmbH**
76534 Baden-Baden, GERMANY

The following criteria were used in awarding this certificate:

Efficiency Criterion

In two typical applications*), the construction achieves the requirement of

$$\Delta U_{WB} < 0.025 \text{ W/(m²K)}$$

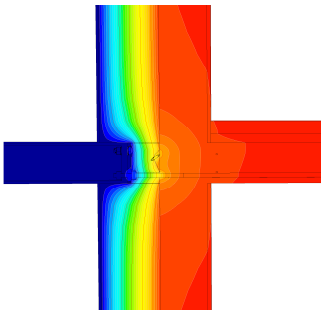
Comfort Criterion

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

$$\theta_{i,min} > 17.00 \text{ °C}$$

Following heat transmission coefficients (χ [W/K]) and surface temperatures θi,min [°C] have been validated:

Product	Slab thickness [mm]	χ [W/K]	$\theta_{i,min}$ [°C]
XT Typ SK-MM2VV1	180	0.157	18.46
XT Typ SK-MM2VV1	220	0.161	18.47



Isothermal map of the XT Typ SK-MM2VV1

Considering higher distances between the balcony connection enables classification owing the circumstances as a Passive House suitable component. Nevertheless, thermal bridges need to be taken into account within an energy balance. 1,37 products/m for a slab thickness of 180 mm and 1,08 products/m for a slab thickness of 220 mm have been assumed for the certification process.

*) The criterion was validated on both, a row house and an apartment dwelling (according to criteria "balcony connection" v2.1.1). The certificate includes types with minor statical performance. The thermal bridge coefficient can be approximated by linear interpolation

PHI Low Energy Component