


Certificate

valid until 31.12.2019

 **Passivhaus
Institut**
Dr. Wolfgang Feist
Rheinstraße 44/46
D-64283 Darmstadt

Balcony connection

Low Energy Component

**Schöck Isokorb® KSXT
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 applications¹⁾, the construction is

$$\Delta U_{WB} < 0.025 \quad \text{W/(m}^2\text{K)}$$

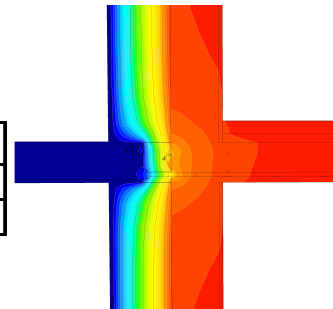
Comfort Criterion

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

$$\theta_{i,min} > 17.00 \quad ^\circ\text{C}$$

Following heat transmission coefficients (χ [W/K]) and surface temperatures $\theta_{i,min}$ [°C] have been validated:

Product	Slab thickness [mm]	χ [W/K]	$\theta_{i,min}$ [°C]
KSXT20-V10	180	0.157	18.46
KSXT20-V10	220	0.161	18.47



Isothermal map of the
KSXT20-V10-H180

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.

¹⁾ 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 static performance. The thermal bridge coefficient can be approximated by linear interpolation

