

Certificate

Certified Passive House Component

for cool, temperate climate, valid until 31.12.2019

Passive House Institute
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Category: **Balcony connection**
Slab thickness 160 - 240 mm
Manufacturer: **HALFEN GmbH**
40764 Langenfeld, GERMANY
Product name: **HIT-SP ZVX**

The following criteria were used in awarding this certificate:

Efficiency Criterion

In two typical applications*, the construction fulfills the requirement of

$$\Delta U_{WB} \leq 0.010 \text{ W}/(\text{m}^2\text{K})$$

Comfort Criterion

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

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

Following heat transmission coefficients Ψ [W/(mK)] have been determined:

Product	Slab thickness [mm]			
	160	180	220	240
HIT-SP ZVX-0202-hh ¹⁾ -100-30-06	0.096	0.096	0.104	0.104
HIT-SP ZVX-0202-hh ¹⁾ -100-30-08	0.099	0.101	0.105	-
HIT-SP ZVX-0302-hh ¹⁾ -100-30-06	0.098	0.102	0.106	-
HIT-SP ZVX-0502-hh ¹⁾ -100-30-06	0.102	0.107	-	-

¹⁾ hh - slab thickness [cm]

* The criterion was validated on both, a row house and a apartment dwelling.

(according to criteria "balcony connection" v2.1.1)

The certificate includes types with minor statical performance. Thermal bridge coefficients can be approximated by linear interpolation.

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