Schöck Isokorb®

Cantilevered balconies using Schöck Isokorb® XT.
Certified by the Passive House Institute.

Thanks to the new Schöck Isokorb® type XT, which has been awarded certification for “low thermal bridge construction” by the Passive House Institute[1], it is now feasible to incorporate cantilevered balconies into passive house design. The Schöck Isokorb® XT advanced thermal break module allows full design freedom for the balcony architecture, combined with the highest standards of thermal efficiency.

The following criteria have been approved for inclusion on the certificate:

Low thermal bridge

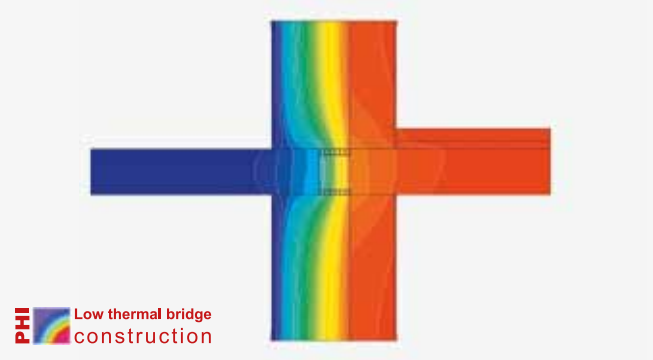
The construction fulfils the requirement for two typical applications[2]

$\Delta U_{WB} < 0.025$ W/(m²K)

Prevention of mould formation

The minimum surface temperature has to be high enough to avoid moisture for standard conditions.

$\Theta_{i, min} > 17.00$ °C



Low thermal bridge construction with the Schöck Isokorb® XT.

Types of Schöck Isokorb® XT for a slab thickness of 160 mm

Isokorb	Minimum surface temperature, $\Theta_{i,min}$ [°C]	Thermal bridge lost coefficient, Ψ [W/(mK)]
QXT 10 F0	19.08	0.08
QXT 30 F0	19.03	0.09
KXT 50 V6 F0	18.50	0.17
KXT 70 V8 F0	18.36	0.20

[1] Passivhaus Institut, Darmstadt, www.passiv.de
[2] Criteria was determined using the example of a terraced house and a larger family house.

Types of Schöck Isokorb® XT for a slab thickness of 180 mm

Isokorb	Minimum surface temperature, $\Theta_{i,min}$ [°C]	Thermal bridge lost coefficient, Ψ [W/(mK)]
QXT 10 F0	19.06	0.08
QXT 30 F0	19.01	0.09
KXT 30 V6 F0	18.55	0.17
KXT 50 V6 F0	18.50	0.18
KXT 50 V8 F0	18.78	0.18
KXT 50 VV F0	18.40	0.19
KXT 60 VV F90	18.20	0.23
KXT 70 V8 F0	18.34	0.20
KXT 30 WU F0	18.60	0.15
KXT 30 WO F0	18.63	0.15
KXT 30 HV15 F0	18.65	0.15
KXT 30 BH15 F0	18.69	0.15

Types of Schöck Isokorb® XT for a slab thickness of 200 mm

Isokorb	Minimum surface temperature, $\Theta_{i,min}$ [°C]	Thermal bridge lost coefficient, Ψ [W/(mK)]
QXT 10 F0	19.04	0.08
QXT 30 F0	18.99	0.09
KXT 50 V6 F0	18.48	0.18
KXT 70 V8 F0	18.32	0.21

Types of Schöck Isokorb® XT for a slab thickness of 220 mm

Isokorb	Minimum surface temperature, $\Theta_{i,min}$ [°C]	Thermal bridge lost coefficient, Ψ [W/(mK)]
QXT 10 F0	19.02	0.09
QXT 30 F0	18.97	0.09
KXT 30 V6 F0	18.52	0.17
KXT 50 V6 F0	18.47	0.18
KXT 50 V8 F90	18.38	0.20
KXT 50 VV F0	18.26	0.22
KXT 50 VV F90	18.21	0.23
KXT 70 V8 F0	18.31	0.21

Types of Schöck Isokorb® XT for a slab thickness of 250 mm

Isokorb	Minimum surface temperature, $\Theta_{i,min}$ [°C]	Thermal bridge lost coefficient, Ψ [W/(mK)]
KXT 50 VV F90	18.20	0.23

Distributed by HAUCON®

HauCon A/S
Lægårdsvej 19
DK-8520 Lystrup
Tlf: + 45 8622 9393
Fax: + 45 8622 9396
info@haucon.dk
www.haucon.dk

Schöck
Innovative Building Solutions

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