

Certificate

Certified Passive House component

for cool, temperate climate, valid until 31.12.2024

Category: **Facade anchor / Corbel**
 Manufacturer: **Schöck Bauteile GmbH**
Baden-Baden, GERMANY
 Product name: **Schöck Isokorb® XT Type O**

The following criteria were used in awarding this certificate:

Efficiency Criterion

In a typical application*, the construction fulfills the requirements of

$$\text{Eff}_{\text{fa}} \leq 0.200 \text{ W/(kNK)}$$

Comfort Criterion

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

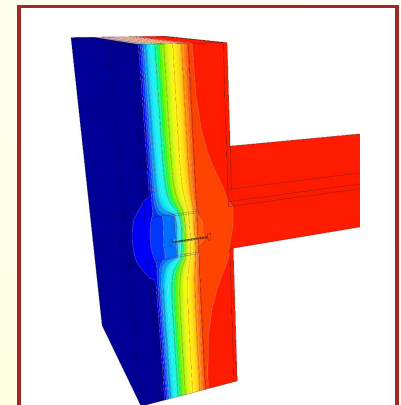
$$\theta_{\text{i,min}} \geq 17^{\circ}\text{C}$$

Thermal data of the certified component

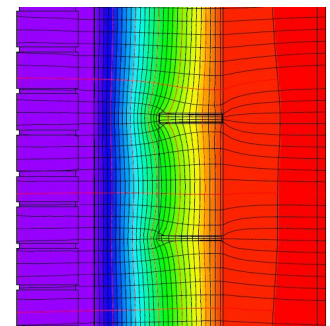
Schöck Isokorb® XT Type O	Thermal bridge coefficient	Minimum interior surface temperature
	χ [W/K]	$\theta_{\text{i,min}}$ [°C]
Schöck Isokorb® XT Type O	0.0621	18.97
	Thermal bridge coefficient**	Minimum interior surface temperature
	ψ [W/(mK)]	$\theta_{\text{i,min}}$ [°C]
Schöck Isokorb® XT Type O	0.055	18.97

* The criterion has been validated with a representative facade of a school building

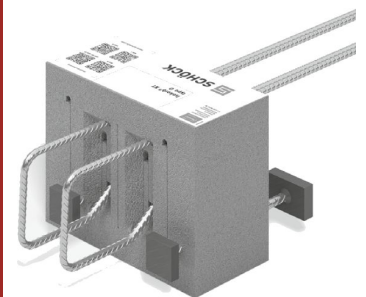
** For the intermediate insulation (corbel distance: 1m), Schöck Isokorb® XT Type Z is included in the thermal bridge loss coefficient.



Isothermal map Isokorb® XT Type O



Isothermal map Isokorb® XT Type Z



Representation

cool, temperate climate



CERTIFIED COMPONENT

Passive House Institute

Data sheet Schöck Isokorb® XT Typ O

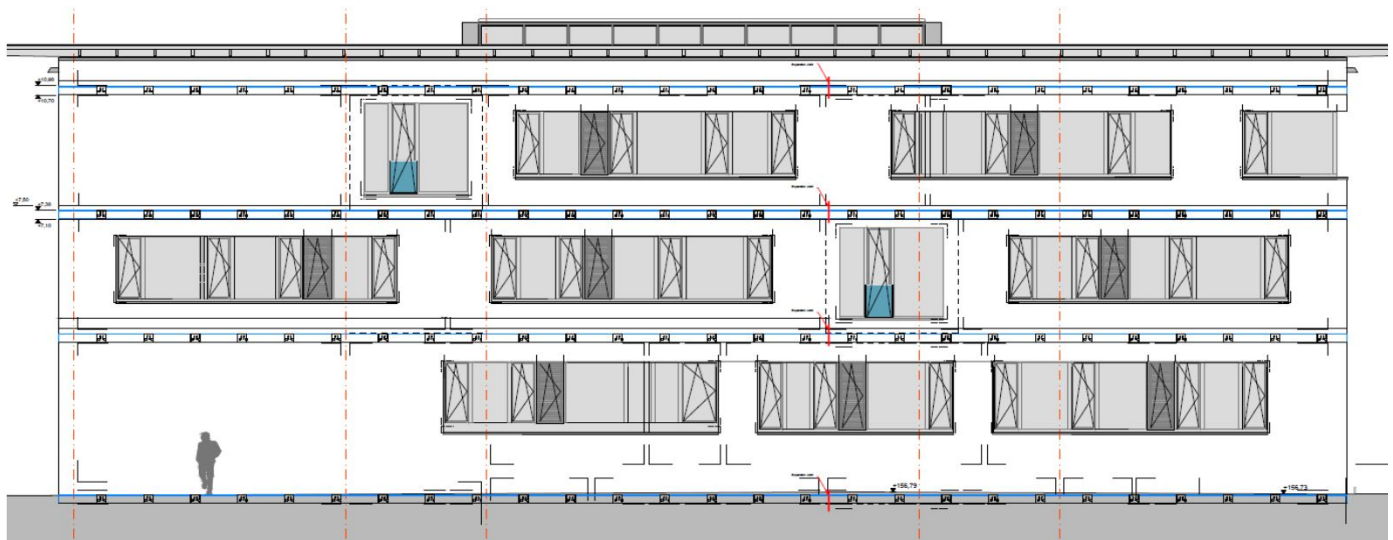
Manufacturer Schöck Bauteile GmbH
 Schöckstraße 1, 76534 Baden-Baden
 www.schoeck.com

Criteria validated based on reference facade	ΔU [W/m²K]
LC VI	0.0318

In order to validate the suitability, the manufacturer provides a static calculation and an associated installation plan for the reference facade.

The calculations are carried out for a reference facade with 24 cm insulation (0.035 W/(mK)). To achieve a heat transfer coefficient of $U_{\text{effective}} = 0.15 \text{ W/m}^2\text{K}$, an additional insulation thickness of 2 cm is necessary.

Efficiency Eff. _{fa}	ΔU	Quantity / m ²	
[W/(kNK)]	[W/m ² K]	Type O [P/m ²]	Type Z [m/m ²]
0.0636	0.0318	0.470	0.350



140 x Isokorb® XT Typ O -V1-NN1-REI120- LR125
 -X120-H250-L250-5.0
 140 x Isokorb® XT Typ Z -EI120-X120 -H250-5.0

Installation-plan reference facade of the certified component (LC VI)

Load-class (LC)	Facade cladding	Facade weight [kN/m ²]	Efficiency criterion fulfilled?
I	Aluminium laminated	0.10	not evaluated
II	ACM	0.15	not evaluated
III	Fiber-cement plates	0.20	yes
IV	Acrylic glass	0.25	yes
V	Ceramics	0.30	yes
VI	Brick	0.50	yes

The classification criteria and the load class allocation can be found in the current criteria "Certified Passive House components – Facade anchors, Version 2.1, 27.05.2021".