

SCHÖCK ISOKORB® IQCLICK & SCHÖCK IDOCK®

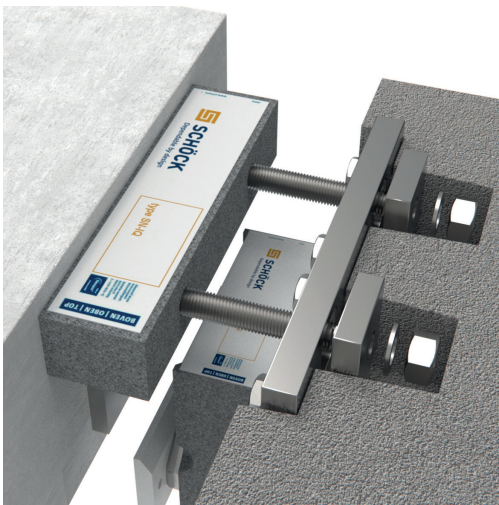
Save time and money with balcony retrofitting

Create more flexibility in the construction process by attaching balconies when it is most convenient. Prefabricated, scaffoldless, with Isokorb® thermal breaks.

SCHÖCK ISOKORB® IQCLICK

The best solution for retrofitting and anchoring balconies

Building on a postage stamp has become widespread. This requires builders to adhere to a tight schedule to ensure the construction project runs smoothly. In order to support building contractors in this process, Schöck has developed various systems for retrofit installation of balconies. Thanks to these systems, balconies can in many cases be anchored from the crane in minutes, eliminating the need for lengthy propping.



IQlick type A

Type A consists of two components; an element in the floor and an element in the balcony slab.

For type A, the anchoring plate is placed in the floor. During assembly at the building site, the threaded rods of the balcony are fixed in a special mounting plate in the floor with two nuts.

The recesses are closed when the cement screed is poured.



IQlick type B

Type B also consists of two components; an element in the floor and an element in the balcony slab.

For type B, the anchoring plate is fitted into the balcony element. With this type, the façade can be completely finished and made watertight.

The balconies can be installed afterwards. In the case of type B, the recesses are cast with a non-shrink casting mortar to provide protection and a smooth finish.





TD Building, Eindhoven
The Netherlands

Benefits

- IQlick type A; cut-outs in the floor, IQlick type B; cut-outs in the balcony, the façade can be completely finished and made watertight before the retrofit
- High insulation value thanks to Thermal break
- Balconies can be anchored without scaffolding
- More flexibility in the construction process
- Can be anchored from the crane within minutes
- Efficient use of equipment such as cranes
- Saves on construction costs

Installation steps for Isokorb® IQlick



Check

The Isokorb® elements are installed with a special jig. As a result, the positions correspond to those of the precast elements. An aluminium straight edge is used to check whether the pressure zones are in the same plane and whether correction with special shims is necessary.



Cavity wall

A watertight layer is applied to the cavity wall to ensure that any escaping water remains outside the insulation.



The embedments

The embedments are already present in the prefab balcony. The open recesses are large enough so the nuts can be fit on the threaded rods. The steel follower plates cover the large holes, which provide the adjustment tolerance.

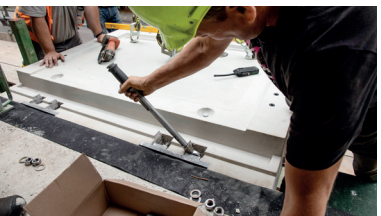


The balcony is lifted into place from the crane.



Mounting

The prefab element is positioned from the floor by the installation team. The balcony is checked, and adjusted if necessary, to ensure a perfect result.



The nuts are tightened to ensure that each Isokorb® supports its share of the load.



Perfect result

The chains can now be removed, so that the balcony hangs in place without additional support.



SCHÖCK IDOCK®

The new construction process

Schöck IDock® combines subsequent anchoring of precast concrete elements with the proven Schöck Isokorb® technology. This allows the structure to be almost completely finished before anchoring the precast concrete elements.



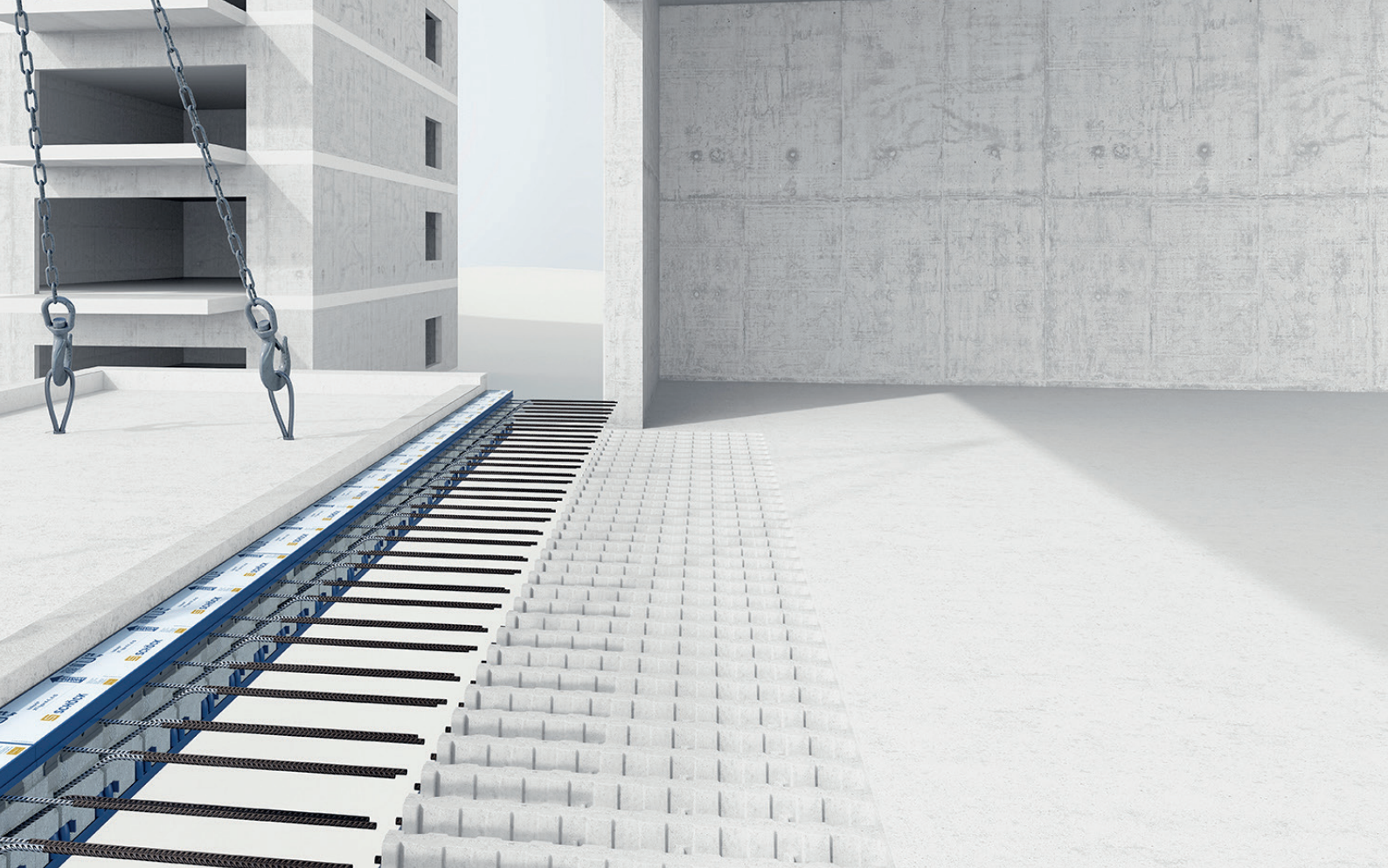
This pioneering innovation allows the building shell phase and precast assembly to be kept separate. The standard Schöck Isokorb® modular elements with 80 mm and 120 mm can be used with IDock® without any need for adaptation. As a result, subsequent assembly with Schöck IDock® offers considerable efficiency gains.

The Schöck IDock® element creates recesses in the concrete floor into which balconies or galleries can be anchored. The precast balcony or galleries are delivered to the site with integrated Schöck Isokorb® elements and cast with K70 pourable grout. Depending on the outdoor temperature and strength development, balconies and galleries will be fully loadable after just 24 hours.

Benefits

- The ideal solution for tunnel formwork
- Greater flexibility in construction schedules
- Efficient use of equipment such as cranes
- No prolonged propping required
- Reduced construction costs
- Prevents damage to valuable precast elements
- Can be used with standard Isokorb® modular elements
- Time saving: loadable after just 24 hours



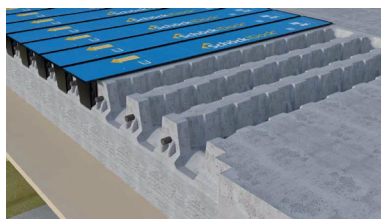


Installation steps for Schöck IDock®



Fit the reinforcement

Position the IDock® element and braid it with the reinforcement. The upper reinforcement is placed perpendicular to the IDock® recess element and parallel to the IDock® edge element.



Pour the floor

Secure the IDock® element to prevent it from becoming dislodged, and pour the floor. After the concrete floor has hardened, the edge and recess elements are removed.



Position the precast balcony

After cleaning the recesses, the precast balcony with integrated Schöck Isokorb® elements is placed in the recesses. The recesses permit wide adjustment tolerances, ensuring the best possible connection.



Pour and cure

Fill the recesses with pourable grout and allow to cure. Depending on the outdoor temperature and strength development, the balcony is fully loadable after 24 hours.

Time gained by scaffoldless retrofit

Thanks to the new Isokorb® IQlick retrofit system, it is possible to assemble balconies within 15 to 25 minutes. Prefabricated, scaffold-free and with Isokorb® thermal break.

The innovative Schöck IDock® system means the shell construction phase and prefabricated assembly are separated from each other. The main advantage of this system is that, depending on the temperature and strength development, balconies and galleries can be fully covered after just 24 hours and galleries are fully load-bearing after just 24 hours.

Type	Schöck Isokorb® IQlick	Schöck IDock®
No supports/support time	+	1-3 days
Balcony >12 m ²	on request	+
Dry assembly	+	-
Connected to prefabricated floor	+	+
Cantilever >2500 mm possible	-	+



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