

Schöck Isokorb[®] Fact Sheet

Balconies, an important part of modern buildings, can often lead to thermal bridges that create significant heat and energy loss. Isokorb[®] is a load bearing thermal insulation element for the reduction of thermal bridges in cantilever components made of concrete and steel.

Benefits

- Avoids damage to buildings at the thermal bridge due to condensation and mold.
- Minimizes thermal bridges, saving energy and reducing CO2 emissions.
- Contributes to LEED[®] certification.
- Improves living comfort by increasing floor temperatures at exterior walls.

Products

Schöck Isokorb[®] type CM – For concrete-to-concrete construction

Manufactured from state-of-the-art stainless steel and the HTE-module with steel fiber reinforced UHPC, this thermal break

product guarantees the highest quality thermal partitioning for balconies and floor slabs. The dramatically reduced thermal outflow creates higher interior surface temperatures, eliminating the risk of extra condensation, damage and mold growth.

At the core of type CM is the HTE module, a technology combining an insulating component, tension and shear force rods as well as pressure bearings that provide the optimum combination of pressure-force transmission and thermal insulation.

- Avoids building damages and contributes to healthy indoor air quality by eliminating the risk of condensation and mold in the area of the thermal break connection.
- Reduces operating costs for space heating – with energy savings of up to 11 percent depending on the building's design.
- Adds sustainability and contributes towards LEED® certification.
- Improves living comfort by increasing floor temperatures at exterior walls by up to 6°C depending on the design of the building.

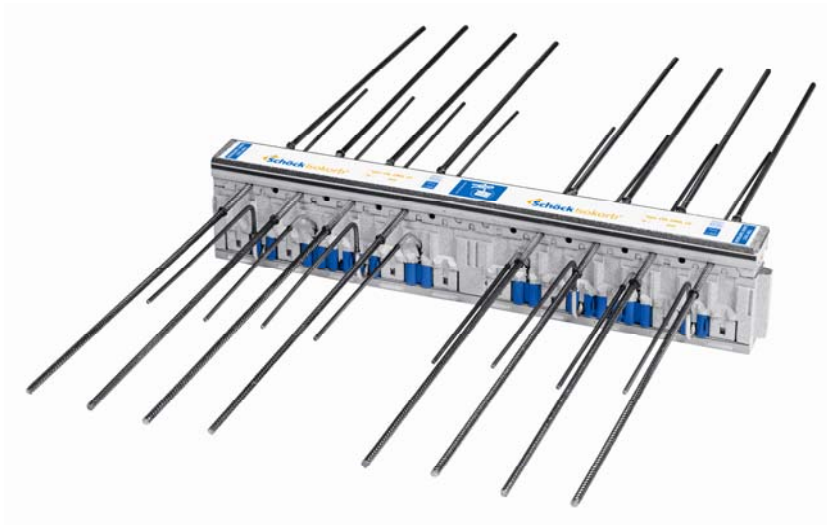
Schöck Isokorb® type S – For steel-to-steel construction

For cantilever beams or canopies, balconies or walkways, Schöck Isokorb® type S offers complete freedom of design when it comes to steel construction. With corrosion-resistant stainless steel components, the unit is able to withstand extremely demanding loads and is effective against bending movement and shear force.

- Minimizes thermal bridges, eliminating condensation and dew point problems.
- Increases property market value through energy savings, sustainable design and possible LEED® certification.
- Modular system is easy to install.
- Can be used for connections with all profile sizes and structural loads.

Captions:

[Isokorb type CM.jpg]



*Schöck Isokorb® type CM for reinforced concrete connections.
The product fulfils all relevant requirements within IEQ Credit 4.1
and contributes to achieve one LEED® credit.*

Source: Schoeck Canada Inc.

[Isokorb type S.jpg]



Schöck Isokorb® type S is a load-bearing thermal insulation element for steel structures. The product fulfils all relevant requirements within IEQ Credit 4.1 and contributes to achieve one LEED® credit.

Source: Schoeck Canada Inc.

[Comparison_of_Isokorb_Thermal_Break.jpg]



Without Isokorb®

With Isokorb®



Balcony slab without thermal insulation. Visible heat flow to the outside. Visibly improved insulation performance through connection with Schöck Isokorb®.

Source: Schoeck Canada Inc.

Schöck Bauteile: The Leading Thermal Break Supplier.

Schöck develops and produces innovative components, solving thermal bridges and impact noise in buildings. For almost thirty years, the Schöck Isokorb® product range has led the market in providing exceptionally high performance thermal break and reinforcement solutions for houses, industrial and commercial buildings with balcony, canopy, and beam connections. Schöck Isokorb® type CM and S provide solutions to prevent thermal bridging and allow design freedom for concrete-to-concrete and steel-to-steel cantilever connections.

The Schöck group of companies had over 36 million linear feet installed with headquarters in southern Germany. Schöck provides high-quality, easy-to-install products with the highest level of technical back-up and comprehensive customer service to the construction industry - for simply better building.

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