

SCHÖCK ISOKORB®

Thermal insulation: A better alternative to wrapping



Structural thermal breaks for efficient reduction of thermal bridges at balconies and parapets.

A COMMON SOLUTION

Wrapped balconies and parapets

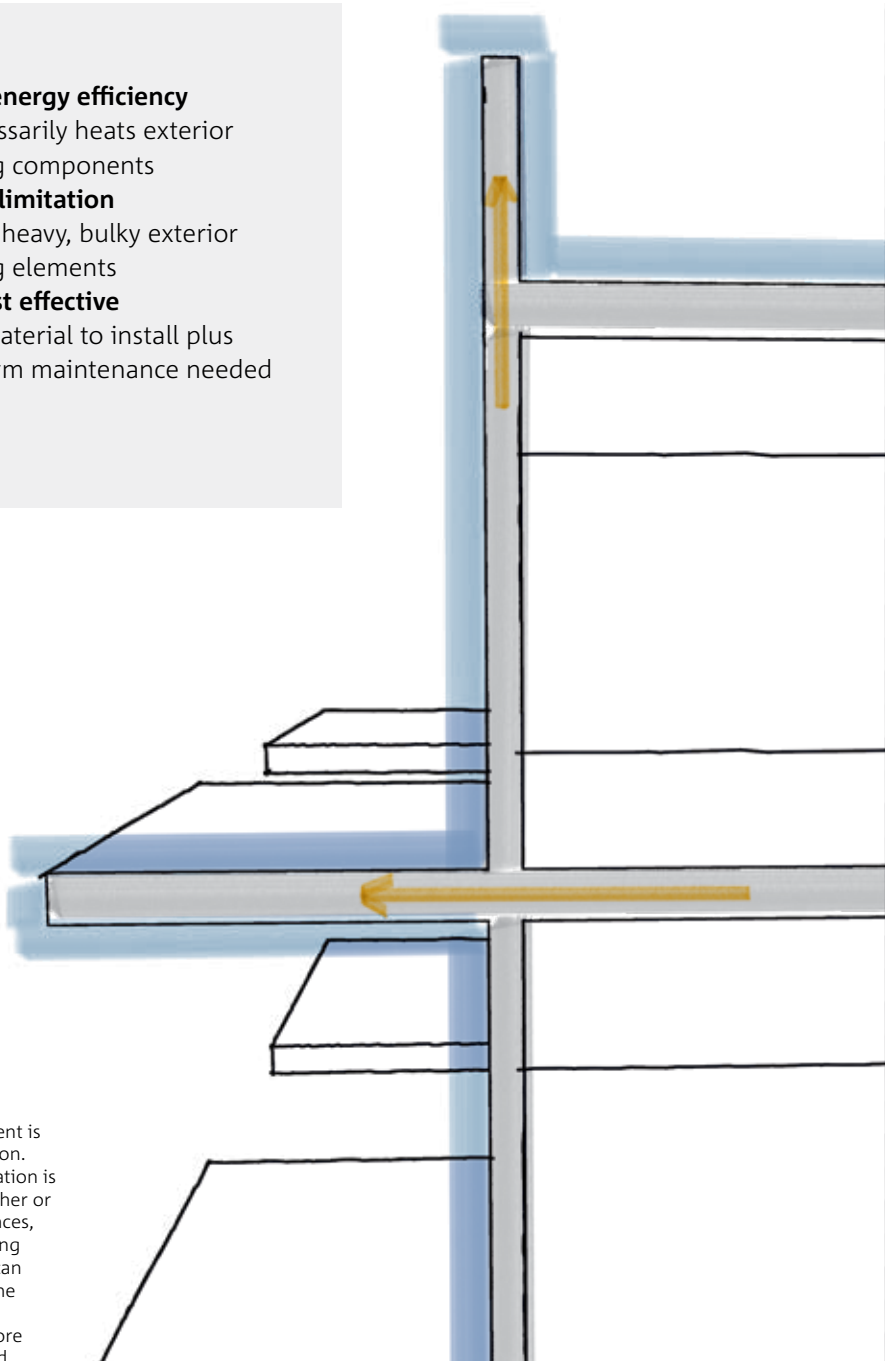
The conventional way to insulate concrete balconies and parapets is to wrap them completely in an insulating material. Although this method may seem like an effective solution for minimizing thermal bridges, it also has disadvantages to consider – both during construction and throughout the lifetime of the building.

IMPACT

- **Lower energy efficiency**
Unnecessarily heats exterior building components
- **Design limitation**
Creates heavy, bulky exterior building elements
- **Less cost effective**
More material to install plus long-term maintenance needed

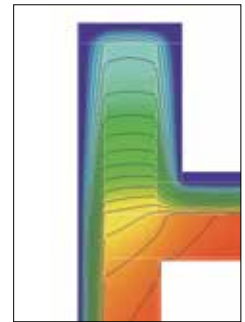
Wrapping

The building element is encased in insulation. The exposed insulation is vulnerable to weather or mechanical influences, such as the fastening of railings, which can lead to damage. The installation is time consuming and more material is required.



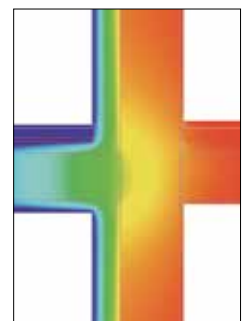
Wrapped parapet

Valuable energy is lost through the parapet.



Wrapped balcony

Valuable energy is lost through the balcony.





The flat roof is a common design element in modern living spaces. An elegant parapet offers the final touch.
Photo: Daniel Vieser

Acting as an extension of the living space, balconies contribute to enhancing the value of urban spaces and have become an essential part of modern architecture. They come in many different shapes and sizes and have become an increasingly important design element.
Photo:
Schöck Bauteile GmbH



A BETTER ALTERNATIVE

Thermally separated balconies and parapets

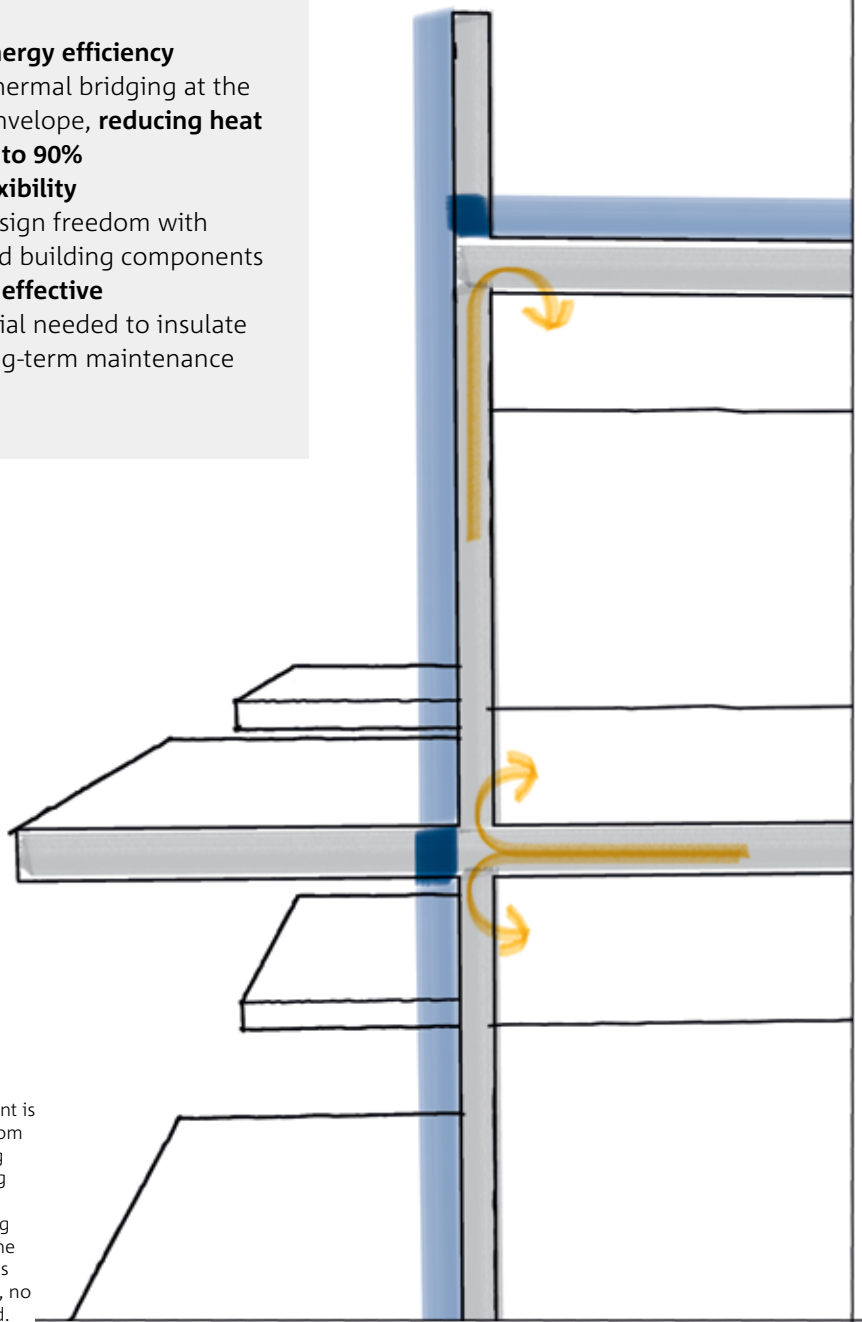
The most effective method to prevent thermal bridges on cantilevered concrete building components such as balconies or parapets is thermal separation. This interrupts the flow of heat to the outside, maintaining the warmth inside the building. The separation is achieved by using a load-bearing thermal break such as Schöck's Isokorb® product.

BENEFITS

- **Greater energy efficiency**
Prevents thermal bridging at the building envelope, **reducing heat loss by up to 90%**
- **Design flexibility**
Greater design freedom with streamlined building components
- **More cost effective**
Less material needed to insulate and no long-term maintenance issues

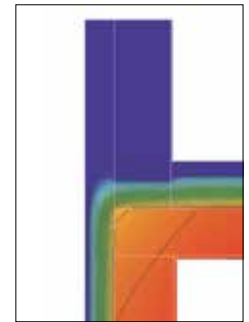
Thermal break

The building component is thermally separated from the rest of the building through a load-bearing thermal break. It is installed at the building envelope and cast in the concrete slab. Since it is embedded in concrete, no maintenance is needed.



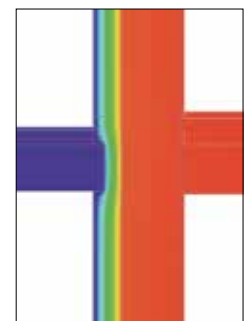
Separated parapet

Heat transfer is stopped at the roofline.



Separated balcony

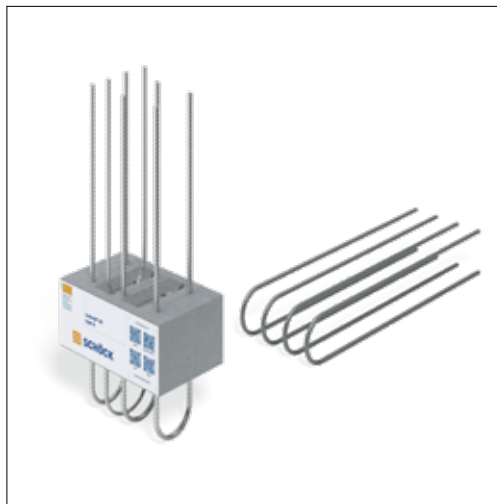
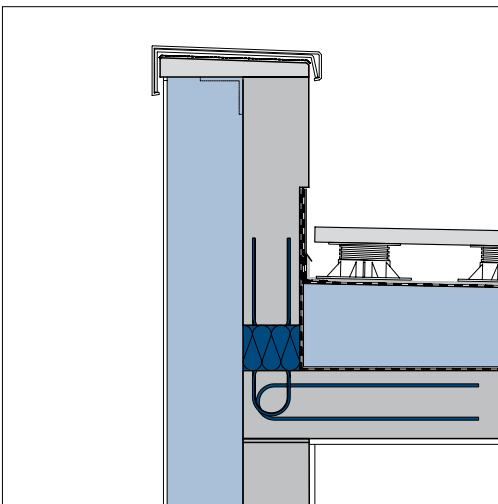
Heat transfer is stopped at the building envelope.



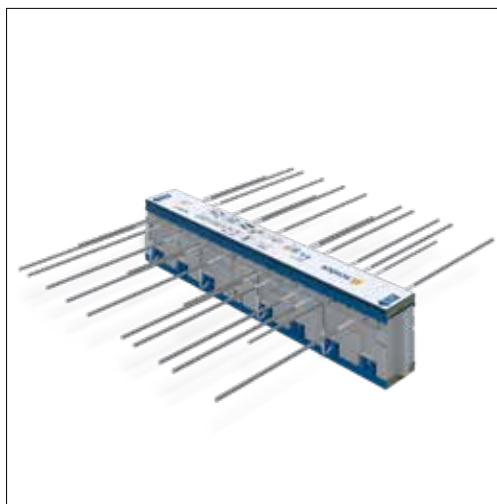
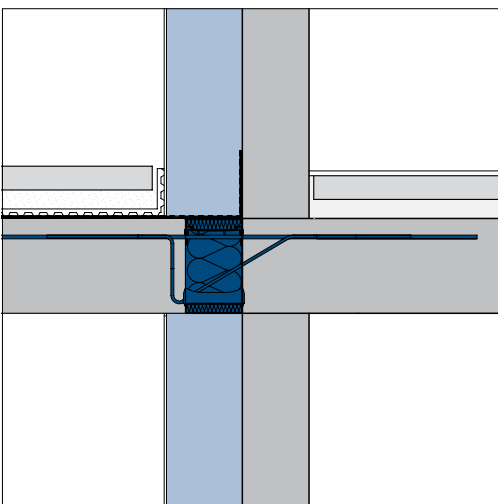
As the inventor of the load-bearing thermal break, Schöck has been successfully implementing this solution worldwide for decades using their Isokorb® structural thermal breaks. The assembly of the structural elements has been optimized to allow the maximum amount of high-performance insulation at the connection, while ensuring proper transfer of all loads over the lifetime of the building.

40 years Isokorb®

Schöck was a pioneer in dealing with thermal bridging, launching the first thermal break in Germany in 1983.



Suitable for parapets
Schöck Isokorb® products offer a sustainable solution for the insulation of concrete parapets.



Suitable for balconies
Schöck Isokorb® concrete balcony connections offer a sustainable solution for concrete cantilevered balconies, with a whole range of products to suit various types of balconies.

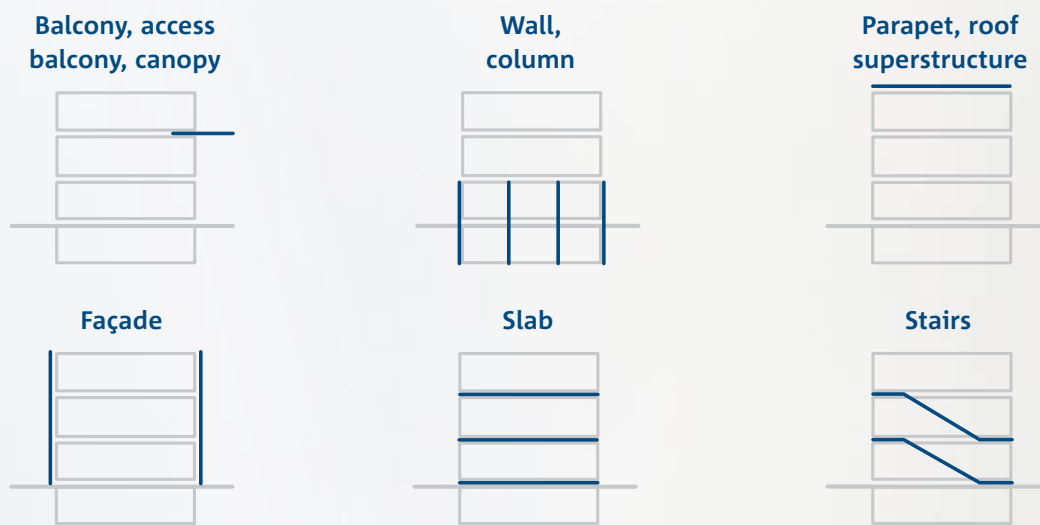
SERVICE AND CONTACT

Schöck is happy to offer services such as design consultation, pricing and installation support. Call us at **855 572 4625**, or email info-na@schoeck.com

SCHÖCK – A GLOBAL LEADER IN BUILDING COMPONENTS

Dependable solutions

Using our time-tested product solutions and systems, we fulfill structural, physical and construction requirements of the respective application for new construction projects and existing buildings. Our main areas of focus are the reduction of thermal bridges, impact sound insulation and reinforcement technology.



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