Schöck Isokorb®

# Efficient thermal insulation.

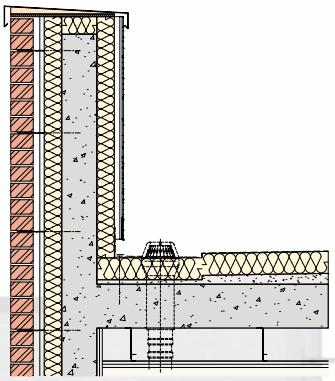
## For concrete parapets.

# The effective alternative to wrapped parapets.

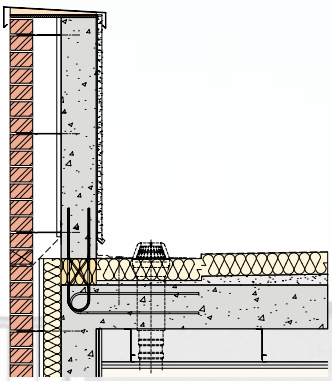
## Schöck Isokorb® XT Type A.

It is well documented that parapets allow conductive materials to transfer energy through the thermal barrier and are therefore just as prone to the problems of thermal bridging as balconies. In the majority of cases, the conventional method of insulating parapets is to wrap the perimeter of the wall with an insulation barrier. This is costly and has associated long term risks.

However, the Schöck Isokorb® XT Type A offers a more thermally efficient and cost-effective alternative. Its 120 mm insulation thickness results in low psi-values and therefore significantly reduces heat loss – The Schöck Isokorb® XT Type A is assessed as a "Certified Passive House Component"; provides BBA Certification; LABC Registration and NHBC approval; and meets full compliance with the relevant UK building regulations. The temperature factor used to indicate condensation risk for occupants in residential or commercial buildings – the (fRsi) value – must be equal to or greater than 0.75 or 0.50 respectively, and is comfortably met by incorporating the Schöck Isokorb®.

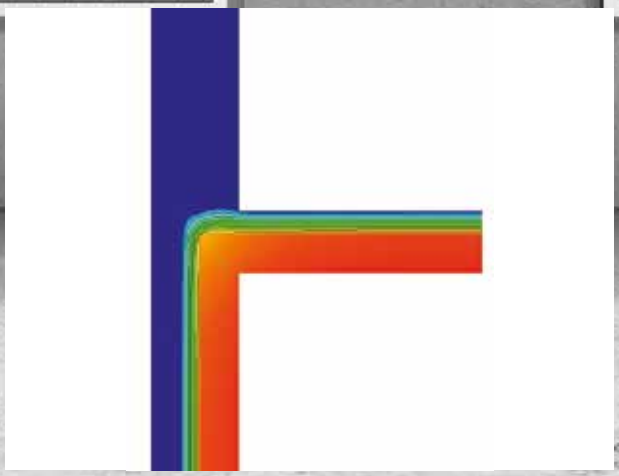


Conventional construction method of insulating parapets.



Efficient solution with Schöck Isokorb® XT Type A.

Heat flow lines and temperature distribution of conventional methods show that the parapet will be heated and therefore requires additional energy.



Heat flow lines and temperature distribution of Schöck Isokorb® XT Type A provide an efficient solution and minimize the thermal bridge where it occures.

## Conventional method of insulating parapets.

- High construction costs and high long-term heating costs
- Additional thermal bridges and waterproofing weaknesses at fixings, balustrades and coverings
- Damages of the insulation may cause high restoration costs
- Insulation prevents slender architecture
- Maintenance costs

## Efficient solution with Schöck Isokorb® XT Type A.

- State of the art solution with clearly increased thermal efficiency
- Sustainable and durable solution without any maintenance costs
- No additional costs, initial cost savings up to 12% depending on the structure
- No further thermal bridges or waterproofing problems through fixings, balustrades or coverings
- Certified Passive House Component

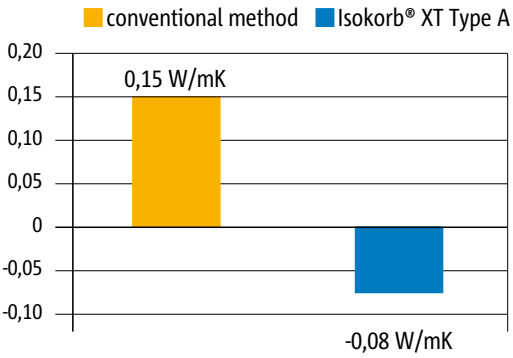
Comparisons of construction costs show initial cost savings through the use of a state of the art solution like the Schöck Isokorb® XT Type A of up to 12% depending on the structure. The product allows simplification of the formwork process as well as the detailing of the rear of the parapet. Additionally it provides a positive effect in the building energy balance resulting in long-term savings through minimized heat losses. It permits a more sophisticated construction opportunity for greater freedom of design. An added benefit being that there is no risk of any additional thermal bridging through balustrade fixings.

Other key factors are durability and water impermeability. The Schöck Isokorb® XT Type A solution does not require maintenance and there is no risk of expensive restoration due to waterproofing problems. Wrapped components are similar in principle to an insulated flat roof, with many of the associated problems. They are prone to damage and almost inevitable repair and maintenance outlay; particularly where railings or covers pierce the insulating layer. With thermally separated parapets, railings and covers can be attached directly into the concrete.

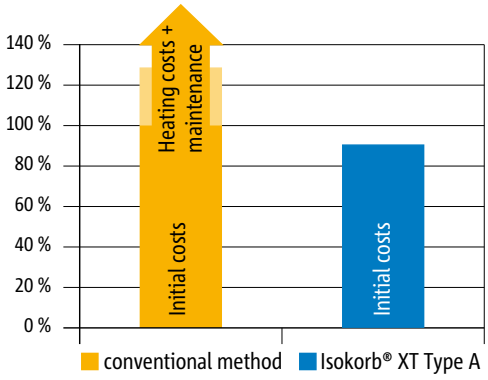
# Heat loss and cost comparison.

## With and without Schöck Isokorb® XT Type A.

**Heat loss comparison**




**cost comparison**




High psi-values for conventional methods result in high energy loss and increased energy costs. While negative psi-values for the Isokorb® XT Type A provide a positive input for your energy balance.

A cost-effective solution: Implementing Schöck Isokorb® XT Type A saves up to 12% initial costs and provides long-term savings over conventional methods.


Subject to technical changes
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