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CONCRETE-TO-CONCRETE CONNECTIONS

Structural Thermal Breaks for Parapets

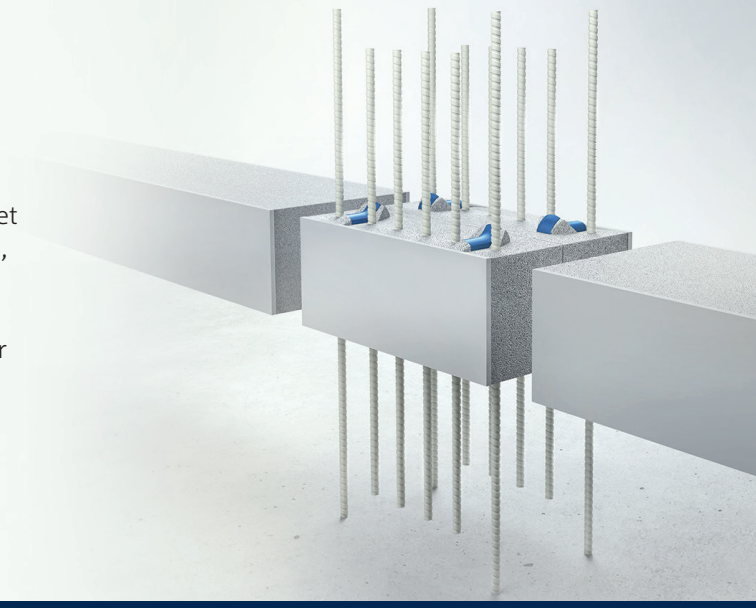
Concrete parapets are a weak link in the often highly insulated rooftops of modern buildings. They are just as prone to the problems of thermal bridging as balconies.

The conventional method of insulating parapets is to wrap the perimeter of the wall with an insulation barrier. This adds bulk to the structure and is not thermally efficient. It can also be more labor intensive, adding cost and time to parapet assembly construction.

A more efficient, effective alternative is to introduce a thermal break such as Isokorb® GFRP parapet connections. Each module has a 4 ¾" (120mm) insulation thickness that results in low assembly U-values that reduce heat loss through the parapet by up to 90%. It achieves continuous insulation that keeps internal surfaces warm even in cold outdoor conditions, reducing the risk of condensation and durability concerns such as mold growth on the underside of the roof slab.

- Most effective way to meet code requirements for continuous insulation
- Prevent condensation and mold formation
- Reduce heat loss at concrete parapets by up to 90%
- Install before or during concrete slab pour

Efficient and flexible installation

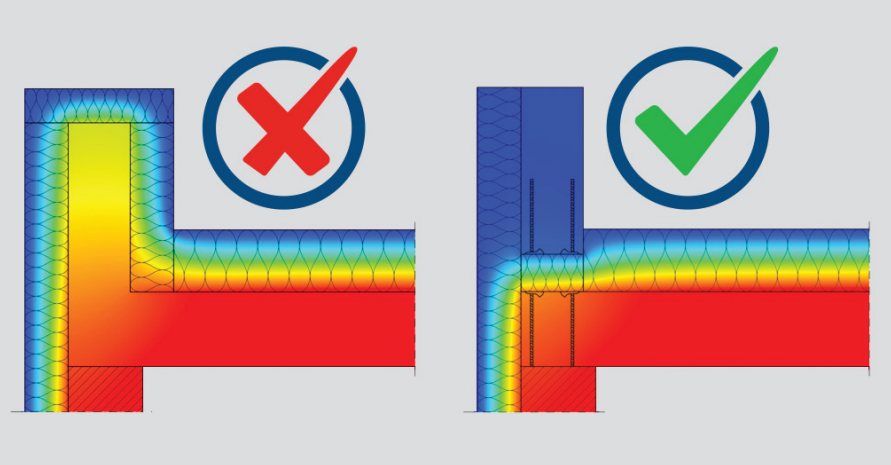


Isokorb® structural thermal breaks for concrete-to-concrete parapet connections thermally isolate the parapet from the main structure, while maintaining the structural integrity of the connection.

Flexible installation Install either before or during concrete pour

Simple and quick Field adjustable bars to expedite installation

Streamlined design No added on-site reinforcement required



THERMAL MODELING ANALYSIS: CONCRETE PARAPET

Standard insulated parapet connection (LEFT): Still results in a significant geometric thermal bridge and requires additional detailing and labor to construct. Exterior temperature transfers to the interior slab.

Connection insulated with Isokorb® parapet thermal breaks (RIGHT): U-value and linear transmittance are reduced compared to the standard insulated connection.

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