

How ISOQUICK® Is Twice As Effective As Other Insulated Raft Foundations

Insulated raft and ring beam foundations are common in passive and low energy buildings. They are fast and simple to install and they keep the warm inside the building, isolated from the cold ground.

ISOQUICK® and other insulated raft products offer very good U values and perform similarly when comparing U values alone.

However, when calculating the U value of a floor, the standard fails to address variations in thickness of insulation under and at the edge of the concrete slab.

To get a true indication of heat loss - it is vital to consider construction details including the edge of the concrete slab, by using thermal modelling.

Thermal modelling shows crucial additional heat loss at the edge of the slab.

In comparative analysis ISOQUICK® outperforms its competitors significantly, and by 100% in our most recent analysis.



Why is ISOQUICK® the best insulated raft on the market?

It's to do with the shape of the concrete and the insulation at the perimeter of the slab under load bearing walls. Both significantly affect Psi value which can often be overlooked in favour of only looking at the U value.

ISOQUICK®'s competitors promote designs with a thick beam of concrete around the edge and a thinner concrete slab in the middle. This leads to thermal problems.

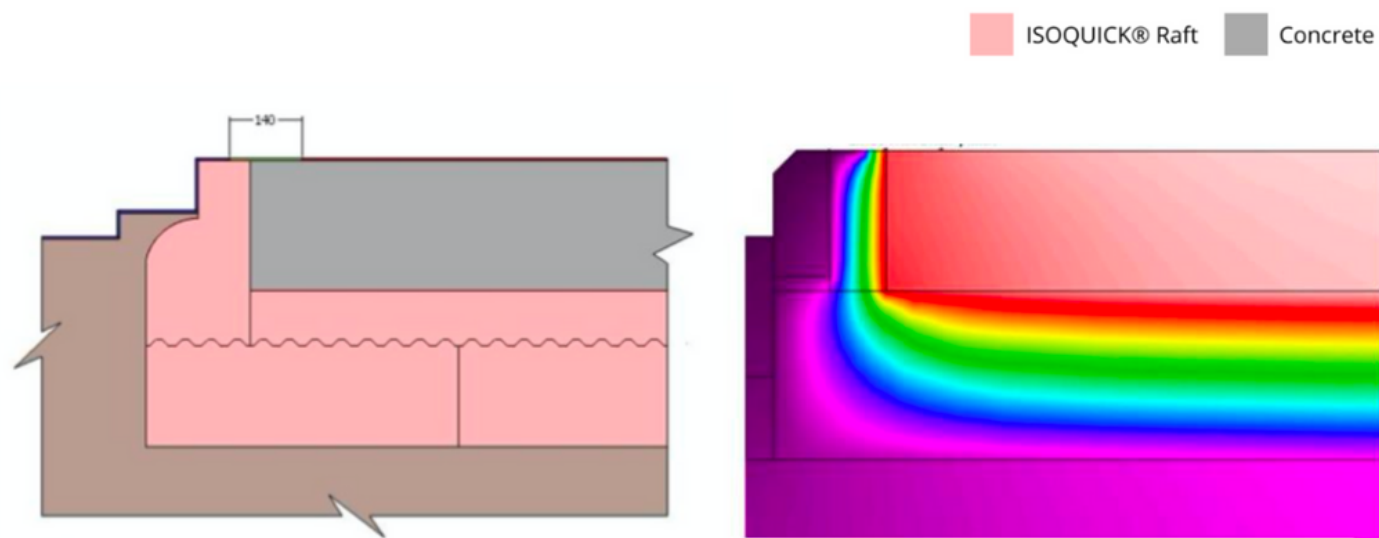
On paper, the slab designs our competitors promote have good U values (i.e. low heat loss), which is comparable with ISOQUICK®.

If you only look as far as U values, you may think the products produce the same result.

But reducing the amount of insulation to increase the amount of concrete at the edge can double the amount of heat lost at the edge of the slab.

When looking at an entire floor, this means that ISOQUICK®'s competitors' slabs can lose 50% more heat than ISOQUICK®, even if the U values are the same.

ISOQUICK® Insulated Raft



Competitor's Insulated Raft

