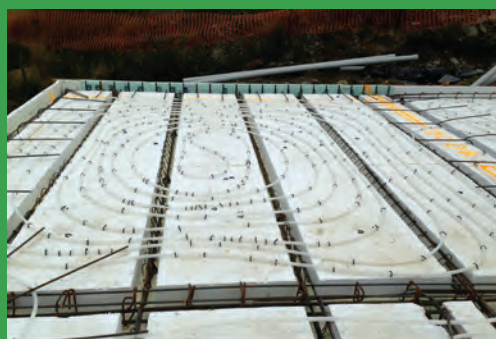




**MAXRaft® is changing the way people think about foundations. Build Better today for a better tomorrow.**

With every design, we are helping people live in warmer, healthier, more efficient homes.



## BENEFITS

- Healthy, comfortable homes.
- Reduced heating and doctors' bills.
- Fully insulated with average R-value of approximately R4.5.
- Minimal thermal bridging.
- Minimal site works lead to reduced costs.
- Less time on site.
- Seismically strong.
- Site specific engineering.
- Capable on soils with a minimum allowable bearing capacity of 75kPa.
- UP to 30%-40% efficiency gains for underfloor heating.

## TESTIMONIALS

“On a standard flat section 220m<sup>2</sup> house, we can excavate on a Monday, and by Friday, be placing the concrete, ready for frames to be erected on Monday – one week turnaround. MAXRaft® is simply the quickest and most efficient building method for a concrete floor on the market today, let alone its excellent thermal efficiency which is its main advantage. I believe this is the way of the future.”

- David Reid Homes

“Having made the decision to install underfloor heating in my new home I knew from previous experience that I wanted a fully insulated foundation to prevent heat loss. After a bit of searching around I came across MAXRaft and knew straight away it was exactly what I was looking for. Combining MAXRaft with a heated slab has given me a warm home in every room all year round and the best thing is my power bills are a lot lower than many people I know. During winter the cost of my hydronic heating has averaged 60.8c per m<sup>2</sup> per month! When I build my next home I will definitely be using a fully insulated slab again.”

- Terry Robb

“In our experience MAXRaft is one of the most efficient ways of prepping a concrete slab than any other system. There is limited bracing and boxing required as the MAXRaft is prefabricated in the factory and delivered onto site ready to be installed. Its rating is a R4.5 which makes any building using it extremely well insulated. Highly recommended.”

- Evolution Homes



## CONTACT US

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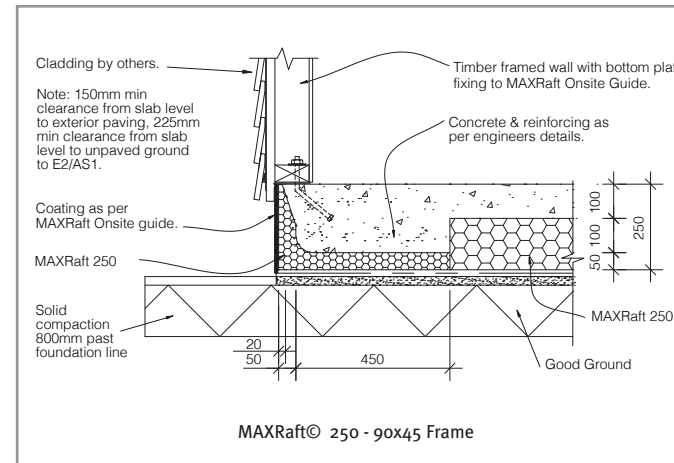


# CONSTRUCTION PROCESS

- Excavate building site to appropriate level in line with Geotech and Engineer's recommendations, compacting and back filling as necessary.
- Level the site using a layer of fine screed, put up boxing around perimeter.
- Lay damp proof membrane over entire building platform, ensure there is enough material to extend 100mm outside the foundation. Ensure underfloor drains are taped up.
- Receive delivery of MAXRaft insulation. Place pre-cut MAXRaft insulation in line with Panelplan, follow Panelplan directly to ensure that load bearing thickenings and thermal breaks are in correct place.
- Place reinforcing steel (designed in line with engineer's specifications) in perimeter footing wells. Underfloor heating can be installed at this stage, depending on installer's requirements.
- Place reinforcing mesh on top of the MAXRaft. Tie mesh to reinforcing around perimeter and beneath load bearing walls.
- Placing finished concrete to specifications.
- Enjoy the warmth and comfort created with a MAXRaft floor.

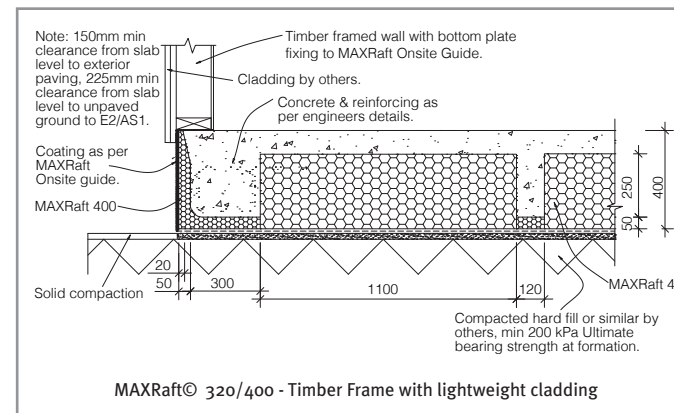
## MAXRaft / Good Ground 250mm slab

MAXRaft is designed to maintain heat in the slab at the exact point where 80% of heat loss in the slab occurs, and to minimise the time spent on-site. MAXRaft ensures that the floor/wall juncture remains warm, dry and mould free, increasing the comfort of your home.



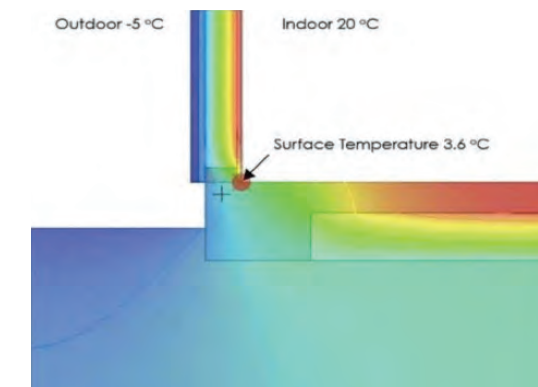
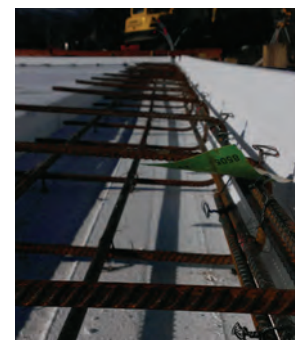
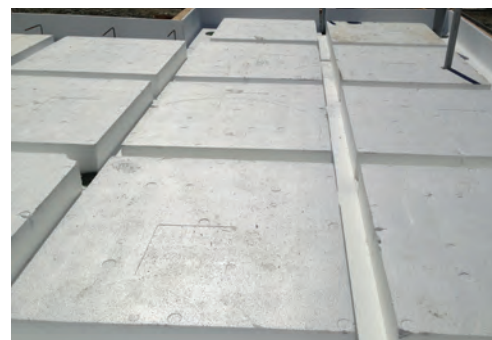
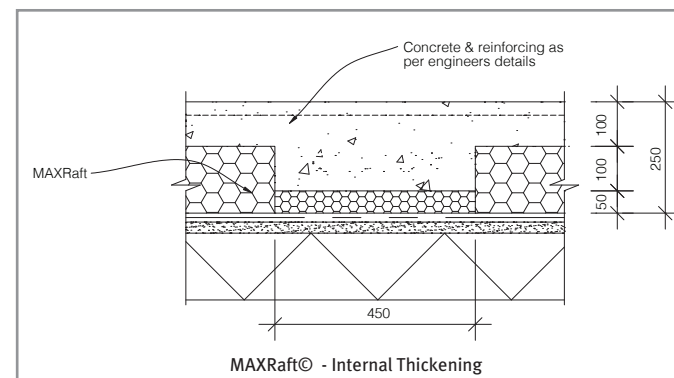
## MAXRaft / Soft Ground 320mm / 400mm slab

MAXRaft waffle system is suitable for ground that is < 100 kPa, has expansive clays or classified TC2. All MAXRaft slabs are fully engineered and maintain a complete thermal envelope around your home.



## Internal Thickenings / Tie Beams

Our load bearing thickenings are designed to support load bearing walls within your home while maintaining a complete thermal envelope around your foundation.

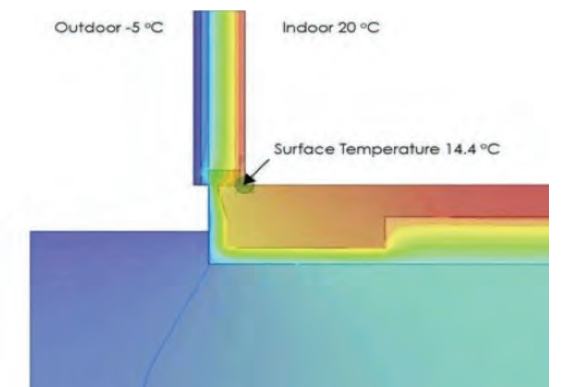


A comparison study between the perimeter foundation of a traditional waffle slab and a fully Insulated footing assuming standard timber wall construction.  
Copyright eZED Ltd

## Traditional Waffle Slab

Thermal bridge free construction is essential for perimeter foundations to ensure there is no condensation risk and optimal thermal comfort.

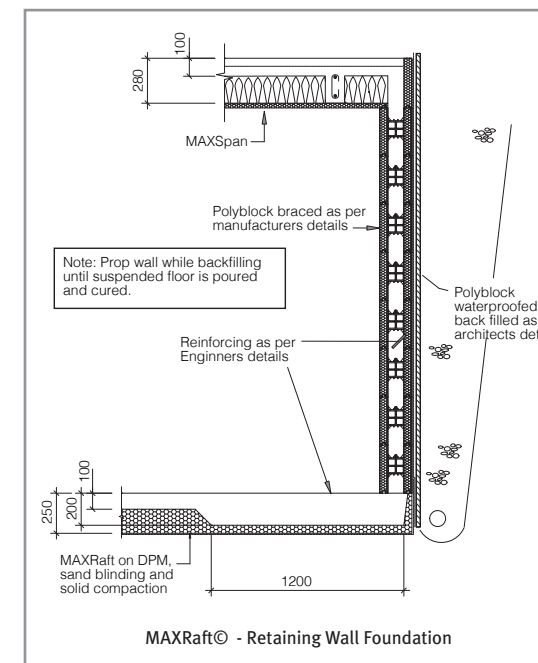
A conventional waffle slab floor has many thermal bridges especially around the perimeter.



## MAXRaft® Slab

MAXRaft® offers a continuous layer of perimeter insulation. This has a dramatic effect on the surface temperature at the floor edge.

Our iso-thermal analysis makes it easy to see the difference in surface temperature.



## MAXSpan

- MAXSpan delivers the benefits of MAXRaft® to the upper levels of your home.
- Suitable for use on multi-storey buildings, above basements or on incline sites, MAXSpan will allow you to use a concrete floor above the foundation.

## Retaining walls

- MAXRaft can be used in conjunction with retaining walls and so is not limited to use on just flat sites. Our engineers can provide designs that will allow you to maintain a fully insulated slab while also providing the strength needed to protect your home from ground around it.

