

CENTRUM PILE

# Centrum Ground Beam

Precast Offsite Built Foundation Solution



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“This Modern Method of Construction (MMC) is delivered “Just in Time” ensuring that the ground beams are placed directly onto the piles and are not taking up valuable storage space on site”

## QUALITY CONTROLLED ENVIRONMENT



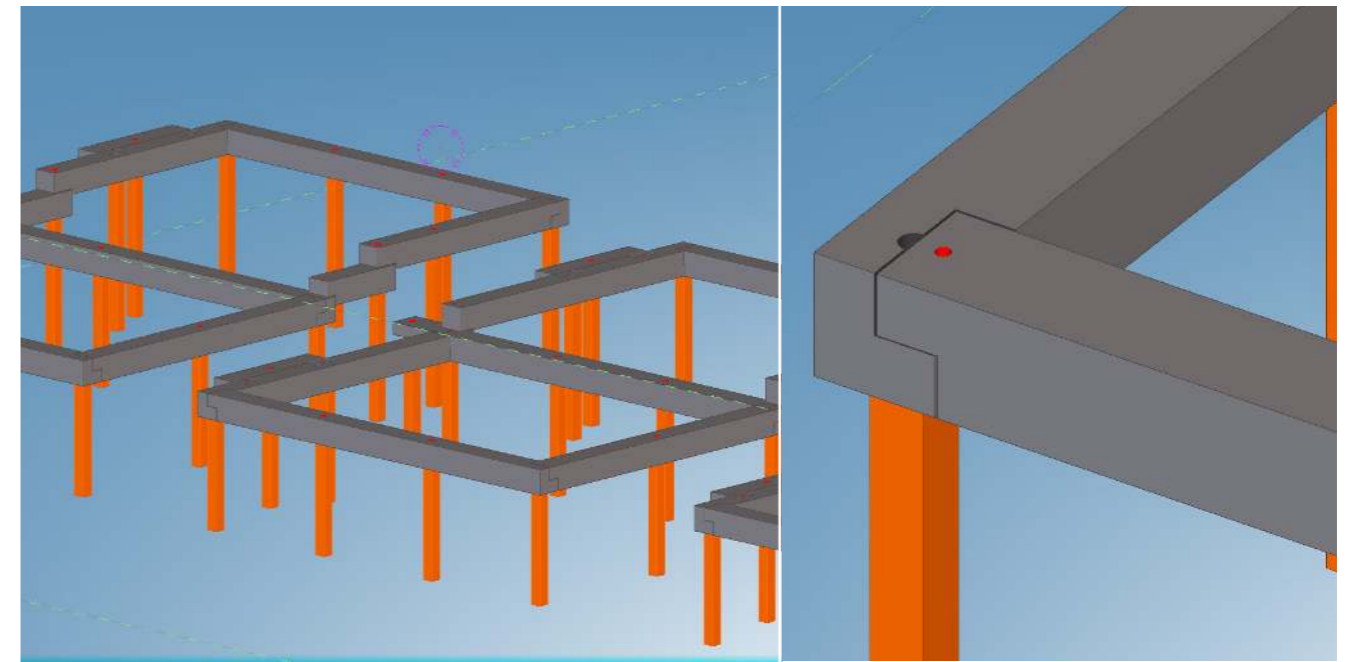
As part of its growing number of precast foundation elements, Centrum has developed the Centrum Ground Beam which seamlessly integrates with the Centrum Pile system, allowing us to offer a package foundation solution. The Ground Beam, which is 450mmX450mm in section, is manufactured in the same quality controlled environment as the Centrum Pile to deliver the same high quality product that our customers have come to expect from Centrum. We appreciate the importance of continuity on-site for efficiency, quality and cost reasons, particularly when it comes to foundation work within residential

and modular builds. Our Ground Beam System is the result of two years R&D and is a fully warranted precast ground beam system meeting the ISO9001: 2015 Quality Assured standard. Suitable for residential-type development applications, our Ground Beam system is meant to replace the in-situ construction of ground beams, which are typically installed by follow-on trades. Centrum’s mission is to offer high quality precast concrete products at competitive prices, whilst simultaneously raising the quality and environmental standards of the manufacturing process.

“Suitable for Residential Developments, as well as Retail, Commercial and Industrial units, Centrum can manufacture and deliver a ‘One Stop Shop’ with a foundation package to suit all requirements”

“We can provide a full design service from placement of order to installation of the final structural member”

## PACKAGE DESIGN



Our dedicated design engineers use the latest 3D software modelling technology to create information rich models for accurate planning, manufacture and site installations following the client’s approval of the design calculations and drawings. Our design service is also very comprehensive and detailed. We can provide a full design service from placement of order to installation of the final structural member and use a rigorous approach in the design of a scheme, particularly in the Engineering Analysis stage.

We try many different configurations on a scheme rather than accept that the first set of results are gospel, this allows us to provide a more economical foundation scheme that is beneficial to the client from a cost perspective. During the design phase of a contract, we will also directly engage with the client’s design team on issues rather than just allow the client to do it for us. The system can be designed to suit specific building loads, eliminating the need to rely on ground capacity, and thus reducing the risk of foundation failure.

“We routinely assist the client in preparation of their Health and Safety Manuals plus involvement in assisting the client with Local Authority and Regulatory bodies such as the NHBC and Local Authority Building Control”

“Offsite construction is not just a buzzword, its sticking around and can provide a cost-effective solution to the existing UK housing shortage”

## A GREENER SOLUTION



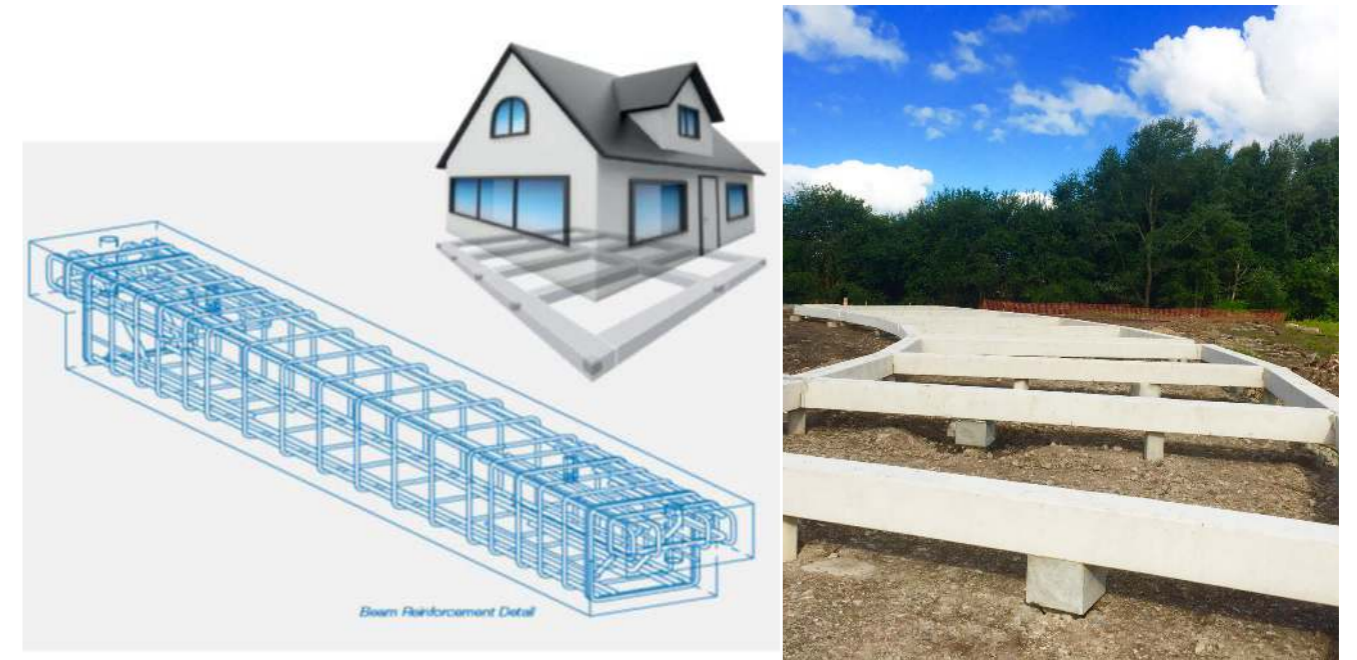
Our precast ground beam solution meets the widely acknowledged need for greener homes. The product offers numerous advantages to the construction market, ensuring high sustainability standards can be achieved efficiently and at less cost than more traditional construction methods such as In-Situ. During manufacturer, the ground beams use less natural materials and less cementitious materials per unit load carried. Having our own precast factory means we can turn around the ground beams extremely quickly enabling the UK governments mission for offsite construction to be achieved sooner. By relocating a significant proportion of

the construction work to our off-site facility, the time spent on site is reduced. Furthermore, within the manufacturing facility, waste is managed and recycled, and continual innovation of the concrete processes has led to a vast reduction in cement use. Aside from saving time and money, offsite construction also ensures a high quality finished product and the UK housebuilding market is well placed to take advantage of this market. During installation too, the precast products generates no spoil or hazardous waste to dispose of, consequently reducing traffic movements to and from the site.

“Within the manufacturing facility, waste is managed and recycled, and continual innovation of the concrete processes has led to a vast reduction in cement use”

“The speed of installation is up to 5 times faster than traditional methods”

## GROUND BEAM BENEFITS



Continual enhancements in our automated factory ensures that the manufacture of the Ground Beam system maintains its high-quality. All concrete is responsibly sourced and produced to BSI kitemark standard. Furthermore, all materials are tested, and the finished products production data is carefully documented enabling full traceability for safety, accountability and quality control. Our foundation products are delivered “just in time” ensuring that the ground beams are placed directly onto the piles and are not taking up valuable storage space on site. We are set up to develop projects of any scale so can very quickly adapt our systems and

delivery techniques to suit the requirements of any ground engineering contract in the UK, large or small. The more calculable conditions of the factory can also ensure that construction deadlines are met more effectively than in a traditional on-site environment. The speed of installation is up to 5 times faster than traditional methods. On average, we can install 200L/m a day and achieve accurate installation to achievable tolerances of +0mm -5mm. Additionally, ground beams can be set at higher levels, thereby removing under-build costs and requiring less excavation work.

“All materials are tested, and the finished products production data is carefully documented enabling full traceability for safety, accountability and quality control.”