Infra







No limitations to precast

Haitsma Beton produces a great diversity of precast concrete elements for engineering structures in the infra industry. Our products cover a wide range of standard cross-sections, but we also produce custom-made beams. Other products we manufacture include precast abutments, pillar constructions for bridges and viaducts, and, of course, columns and beams for various other constructions. And if you require driven piles and barriers, you have come to the right place as well. In short: one-stopshopping where infra is concerned.

In the Netherlands, an increasing number of bridges and viaducts are being built whereby not only the superstructure, but also the substructure is made from precast concrete. More and more clients, architects and contractors are discovering the constructive, aesthetical and logistic advantages of precast concrete for superstructures and substructures. You will find many impressive examples of these in the Netherlands. Precast is gaining ground.

Faster and safer

The application of precast concrete will limit construction time and traffic nuisance and the work may continue in all weather circumstances. Also factory production allows more effective quality control. This method of construction requires less manpower, equipment and transport movements. Also, precast concrete allows better risk control, because the risks, including safety risks, are analysed and monitored more efficiently than they are in case of constructions cast in situ. In short, precast concrete allows better, faster and safer building.

Any size in any location

Thanks to our great hoisting capacity and unique hoisting

equipment, we are able to manufacture products of almost any weight and size. In combination with our modern moulds and pumping technologies, we can deliver very large structures and special shapes. Of course, we also supply beams in small dimensions. If desired, we will transport the elements across water from our own dock at the Prinses Margriet Kanaal; this will usually prove more lucrative and environmentfriendly than transport by lorry. Therefore, with Haitsma Beton, there are no limitations to precast concrete.

Wide choice

Come to us, and you're at the right address for a wide range of beams, such as inverted T-beams, solid beams, rail beams, box girders, and specials. Other products include precast abutments, pillar constructions for bridges and viaducts, and, of course, columns and beams for numerous other constructions. We even supply arched beams and edges. In developing these beams, Haitsma Beton fulfilled the demand for aesthetic beams, broadening the architect's design scope. We not only supply precast elements; if desired, we will also engineer and install them. Your project will be in safe hands, with a single, reliable partner.





HKO beam: the most popular precast inverted T-beam

The HKO beam is a prefab beam where the space between the beam sections and the compressive layer is cast in situ. It is the most popular beam used in civil engineering projects. We can produce these beams in various lengths, from 7 up to around 20 metres.

These beams will prove the most economical solution for our clients where spanning distances between 7 and around 20 metres are concerned. The essential part of the deck is manufactured of precast concrete. The remainder will be poured in situ. Application of these precast beams will considerably shorten the construction time.

HKO beams are widely applied. Examples are large and small traffic bridges, quays, subterranean parking garages, and overpasses such as pedestrian tunnels in train stations. For an attractive finishing of the bridge, we offer various precast edges.



Haitsma Beton – the pioneer in precast concrete



HRP beams: an economical solution

If the construction height does not pose any problem where road design is concerned, you may opt for HRP (Haitsma Rail Profile) beams. These beams provide an economical solution for spanning distances from 15 to more than 50 metres.

HRP beams are a mix of precast concrete and concrete cast in situ. You will take optimum advantage of precast concrete. When HRP beams are used, the casing for the in situ part is lost.

This means that the casing becomes a part of the works after the concrete has been poured.







HKP beams: the largest and heaviest bridge beams



Haitsma Beton is the leading manufacturer of the largest and heaviest bridge beams available in the Netherlands. Our state-of-the-art production facilities allow designers to make major breakthroughs in the building of large bridges. We have already produced box beams (HKP beams) with a length of almost 70 metres. And we can go further still. Or you may opt for a horizontally curved box beam for curved viaducts and bridges. These are called HGKP beams.

Thanks to our new production facilities, we were able to expand on our technological capabilities with regard to the manufacture of very large and heavy beams. For example, it is now possible to leave out intermediate pillars, thereby saving space and time. An ideal solution to increase capacity as well as safety where busy traffic routes are concerned. In addition, wider passages are provided in canals and rivers.

To reduce the weight of the beams themselves, we create 'hollow' space by incorporating recycled EPS. This production method allows the beams to be poured in one go, avoiding a seam. A homogeneously constructed box beam is a far more attractive one. The bridge deck of box beams is restressed in cross direction; no compression layer is required. Thanks to the crosswise restressing, the load is distributed in an optimum way. When box beams are used for a bridge, it is possible to apply a bevelled edge beam, giving the bridge a slim appearance.

HGKP beam (Haitsma Curved Box)

The principles of this beam are similar to those of a box beam. To meet the visual requirements of the road design, these beams are curved horizontally. The smooth lines result in an attractive appearance. We have a lot of experience manufacturing various curved precast bridge decks.



HIP beam (Haitsma I-Profile)

This beam provides an alternative to box beams. The HIP beam is an I-profile beam that has been especially developed by Haitsma Beton for the civil engineering market. Thanks to these beams, clients are able to build slim precast concrete bridges and viaducts more quickly and easily. Both crosswise restressing and connections cast in situ can be applied. In addition, the larger HIP beams are even more light weight than box beams. This means a lighter, slimmer, and thereby more economical substructure can be used. Moreover, the production of HIP beams is relatively simple and speedy. In short, HIP beams provide a more economical alternative to the regular box beams. Particularly where spanning distances between 35 and 45 metres are concerned, the HIP beam will prove more economical than the HKP beam.









Special beams



Haitsma Beton also provides a number of special beams, including the solid arched bridge beam

and the I-profile beam. We also supply T-profile beams.

HBM beam (Haitsma Solid Arched Bridge Beam)

The advantage of the HBM beam is that pipes and cables can be tucked away inside the beam or laid in the widened joints. This is considerably more economical than laying them underground. Moreover, engineers are able to access cables and pipelines more easily to solve any problems. The HBM beam is suitable for an arched bridge with a span of between 10 and over 16 metres.

HTP beam (Haitsma T-Profile)

HTP beams are used in bridges that will not have a heavy traffic load and where the available construction height is ample. The HTP beams are suitable for use in places where there is no collision risk. This beam is suitable for a slim construction or a spanning distance of between 10 and more than 37 metres. Various types of edge beams may be used as an end profile to provide an attractive finishing.



Haitsma Beton: Pioneer in precast concrete

Haitsma Beton is specialised in the manufacture of precast concrete elements and piles for bridges, viaducts, stadiums, parking garages, and specific projects. In addition, we produce concrete barriers. We are constantly developing new and better products and procedures, which we fine-tune to changing market needs, legislation and regulations, and technical insights. Haitsma Beton is based in Kootstertille (province of Friesland) in the Netherlands.





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