

WIDE SLABS OF reinforced concrete



WIDE SLABS



Wide slabs are ideal for the building of concrete loadbearing floors. They can be produced in all forms up to a thickness of 7 cm, and comprise both a constructive and an aesthetic underside for a concrete floor. The wide slabs are provided with bottom reinforcement, with a flat and smoothed surface on the underside.

After the placing of the wide slabs the pipework is laid and the upper reinforcement applied. Concrete is then poured on the slabs to obtain the required floor thickness.



Kerkstoel wide slabs are reinforced concrete floors that meet the PTV 202 Probeton BENOR conditions for Belgium and the requirements set down by KOMO, certificate-with-product certificate N° K2188/95 and ISO 9001, ISO 14001 and ISO 45001 standards.







The shape

Wide slabs perfectly follow the contours of the design. Each space can be perfectly covered with custom-made wide slabs.





Reinforcement

All the lower reinforcement is already provided in the slabs. Result: work on site is limited to simple assembly. Beams can be created in the floor and reservations are possible.

The built-in parts

All built-in parts are assembled in the correct place beforehand. Provisions for electricity, sanitary, air-conditioning, heating, etc. can be simply built in.



The durability

Kerkstoel wide slabs are produced in a professional manner and comply with the most stringent standards:

- optimal resistance to environmental influences
- optimal fire-resistance

The finishing

The large surface area of the slabs means there are few joints. The smooth formwork side also forms a perfect support for spray plaster. The end result is a solid monolithic floor that ensures good noise insulation and the perfect distribution of the floor load. Wide slabs offer you the solution for fast, simple and sturdy construction.





Post X - Antwerp - 2021

PRODUCTION PROCESS

Installation plan

The laying plan is produced in consultation with the contractor. As soon as the contractor and the building services engineers have approved the laying plan the production process can be started.

Formwork by robot

The forming of the wide slabs takes place on mobile metal tables. All necessary information is sent to the formwork robot through a central computer. This robot ensures transverse and longitudinal settings and also creates the recesses.







The reinforcement

The reinforcement is specially welded to size for each wide slab. One can choose from different diameters of high quality reinforcement steel.



- Constant renewal guarantees high quality and flexibility
- Permanent control and striving for top quality is our main aim



Storage in the curing room

The steel tables that have just been concreted are stored in a curing room that is constantly kept at the correct temperature with the exact relative humidity, taking the required concrete strength into account.



The concreting

The concreting takes into account the thickness of the wide slab. The correct thickness is guaranteed by a permanent measurement of the quantity of concrete during pouring. Thanks to the computer control of the concreting machine the concrete is very precisely distributed over the whole surface.





Form removal

After 8 hours in the curing room the element has sufficiently hardened for form removal transportation.







M DELIVERY TO PLA **빌迟**



Unloading

The wide slabs are taken by site crane from the lorry and usually put in position according to the laying plan immediatly. The carbine hooks are hooked into the diagonals (never to the top rebar!). The standard weight of the slabs is approximately 125 kg/m2 with a thickness of 5 cm. If the slabs must be temporarily stored on the building site, this must be done on a flat and sufficiently strong surface.

To avoid damaging the flat underside the slabs are laid on two squared timbers which are just as long as the slab. The squared timbers are best placed at 1/5 of the slab length from the edge. For slabs longer than 4.5 m, three of four squared timbers must be used. A maximum of 10 slabs can be stacked on top of each other.



If the upper face of the wide slab has become soiled, it must be cleaned to ensure good adhesion between the wide slab and the freshly poured concrete. The surface must be made free of dust and moistened before concreting.

Support

The supports must be applied before the wide slabs are placed. The distances between the mounting supports are indicated on the laying plan. The beams must always be placed transverse to the open web beams. An area of 50 mm is used as support. A mortar bed is recommended!



done.



Placing

The wide slabs are preferably put in position straight after unloading from the lorry. All slabs are numbered on the assembly plan. They must be lowered horizontally on the bearing surface. Wide slabs must be placed with counterpost.

The openings

The required openings in the floor are already provided during production at the factory. On the building site the openings and the borders are formed to the height of the finished floor. If the openings for the electrical provisions have not been provided during slab production, they can still be drilled longitudinally after laying.

Caution: if drilling takes place from the top, parts of the smooth underside will break off!



The reinforcement of the joints

Strips of reinforcement mesh or individual rods are placed over the joints between the wide slabs as joint reinforcement. The specifications of this reinforcement are indicated on the laying plan.

Cleaning of the slab surface

The pouring of the concrete

The concrete must be poured and compressed in accordance with the specified quality and consistency and in one work session. There should be no slyding or denting of the reinforcement whilst this is

The removal of the supports

The supports can only be removed when the concrete has sufficiently hardened. The provisions of the NBN B15-001 standard must be observed here.



Woonzorgcampus De Zavel - Antwerp - 2021



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For greater FLEXIBILITY

Because Kerkstoel wide slabs can be made in all possible shapes, you save a considerable amount of time on the site and you require much less material. You gain both in flexibility and profitability.

For a better **FINISH**

Kerkstoel wide slabs are highly suitable for spray plaster; In other words, wide slabs contribute to reducing costs and guaranteeing a superior quality of finish.

For greater **STABILITY**

With the modest thickness of the wide slab and the thick coat of poured concrete you obtain a solid monolithic floor to guarantee the perfect distribution of the load on the floor; buckling or cracking are excluded.

These assembly instructions are intended as advice. The ation is based on current standards and nical approval and our many years of experience. They are however nees accept the role and the liability of the authorised supervisor. This also applies for any employees of our company and surface with respect to the prospectus material as well as technical and static changes reserved. not binding. Our assembly supervisors under no circ and our suppliers on the building site. Variations in c

KERKSTOEL WIDE



A strong base for fast construction at low cost

Kerkstoel stands for reliability, the guarantee that all building physical properties are taken into account. Our wide slabs are manufactured in accordance with the strict standards of the Belgian conformity certificate, ISO 9001, ISO14001 and ISO45001.

For the smooth realisation of the building plans, we offer justin-time logistics. Based on the architect's design (floor plan and cross-section), the stability calculations, the formwork and installation plans, we also develop a detailed assembly plan, so that everything goes smoothly and according to plan on site.

Are you also considering wide slabs for your next building project? Please let us know.



www.kerkstoel2000.be