



PARDAK[®]80

ROOFTOP CAR PARKING SYSTEM FOR
RENOVATION OR LOW TRAFFIC INTENSITY



SOLID AND STABLE

Pardak®80 is a rooftop car parking system designed specifically for renovation or refurbishment projects and lightly trafficked roofs, with a total weight of up to 35 kN. For years offices and car distributors have used the roof space for parking. These areas generally have low volumes of traffic and our existing systems have been more than adequate, and continue to be so. However, with the weight and dynamic power of cars increasing, the Pardak®80 system has been developed to cater for these changes.

The Pardak®80 system is a further development of the traditional Pardak® system. In excess of 35 years experience with rooftop car parking and the proven technology of the Pardak®110 system form the basis for the new Pardak®80 system. Pardak®80 consists of a 798 x 798 x 80 mm precast concrete slab combined with a

pressure distributor pad, crosspiece and tensioning element. The act of tensioning the slab area, improves the stability of the rooftop car park. The Pardak®80 slab is lighter than the Pardak®110 slab, making it ideally suitable for renovation or refurbishment on roofs capable of supporting a lower load.



The slabs are laid on the pressure distributor pads



The spacer is embedded in the rubber pad



The tensioning element ensures stability

THE PARDAK®80 SYSTEM CONSISTS OF THE FOLLOWING ELEMENTS:

- † Pardak®80 concrete slab
- † Pardak®80 pressure distributor pad
- † Pardak®80 spacer
- † Pardak®80 tensioning element

PARDAK®80 CONCRETE SLAB

The Pardak®80 slab consists of high-density precast concrete and measures 798 x 798 mm by 80 mm thick. The slab is patterned with diagonal grooves on the top surface and drainage slots on the side surface so that surface water is rapidly discharged, leaving no puddles on the roof. The standard colour of each slab is grey, but on request slabs can be produced in a variety of colours or with various covering layers.

PARDAK®80 PRESSURE DISTRIBUTOR PAD

The slabs are laid on a pressure distributor pad produced from high density bonded rubber granulate, with a diameter of 400 mm. The vertical forces occurring as a vehicle drives over the rooftop car park are absorbed and distributed by the pad. The pressure distributor pad also attenuates the driving noise and creates a void below

the slab for the unhindered drainage of rainwater.

PARDAK®80 SPACER

The Pardak®80 spacer is integrated in the pressure distributor pad. This plastic spacer serves as an alignment for the slabs. The spaces create joints to guarantee water discharge. The spacer is embedded in the distributor pad thereby fixing the rubber pad in place, and ensuring that the pad is positioned correctly below the slab.

PARDAK®80 TENSIONING ELEMENT

One of the most important components of the Pardak®80 system is the tensioning element. Between each slab, the tensioning element is fitted at the corners. By tightening the adjusting screw in the tensioning element, the slabs are placed under tension so the entire slab area forms a single unit. The tension between the individual slabs ensures that the dynamic forces generated by vehicle traffic is absorbed and distributed, and that noise is diminished. The overall result is a durable and stable rooftop car park.



RENOVATION OF ROOFTOP CAR PARKS

Due to its weight, the Pardak®80 system is ideally suitable for renovation or refurbishment. The system weighs 186 kg per m², and in many cases can be laid without any changes to the support structure.

During renovation work it is essential that the laying time is as short as possible and that nuisance to users of the rooftop car park is minimized. The Pardak®80 system meets both these conditions. The laying of precast rooftop slabs can be carried out far more rapidly than the pouring of concrete or laying asphalt on site, and after tensioning, the slabs can be trafficked immediately. The renovated area can therefore be put into use without delay. It is also possible to renovate a rooftop car park in phases, so that part of the space always remains available.

The modular nature of the Pardak® system, and the fact that it does not rely on any “wet trades” means that Pardak® can be laid in any weather. This reduces total construction time and prevents unscheduled overruns.

These specifications, constructions and details were prepared according to the latest technological developments and with the greatest possible care. Zoontjens International B.V. accepts no liability whatsoever for any errors or inaccuracies or their consequences. In the interests of innovation and improvements, we reserve the right to make any necessary changes to the products and systems.

WHAT IF THE WORLD WERE TWICE AS BIG

It can be, as far as we're concerned. Our world, twice as big. A world that we are helping to design and construct perfectly with our roof slab systems. Our many years of experience have made us the number one expert in rooftop paving. For sustainable roofs, livable roofs for socialising. We interact with architects and contractors every day. With roofers and project developers. Creators and constructors. We listen to them, work with them and advise them. That's why we're the number one party with the best rooftop vision. It's our higher ground.