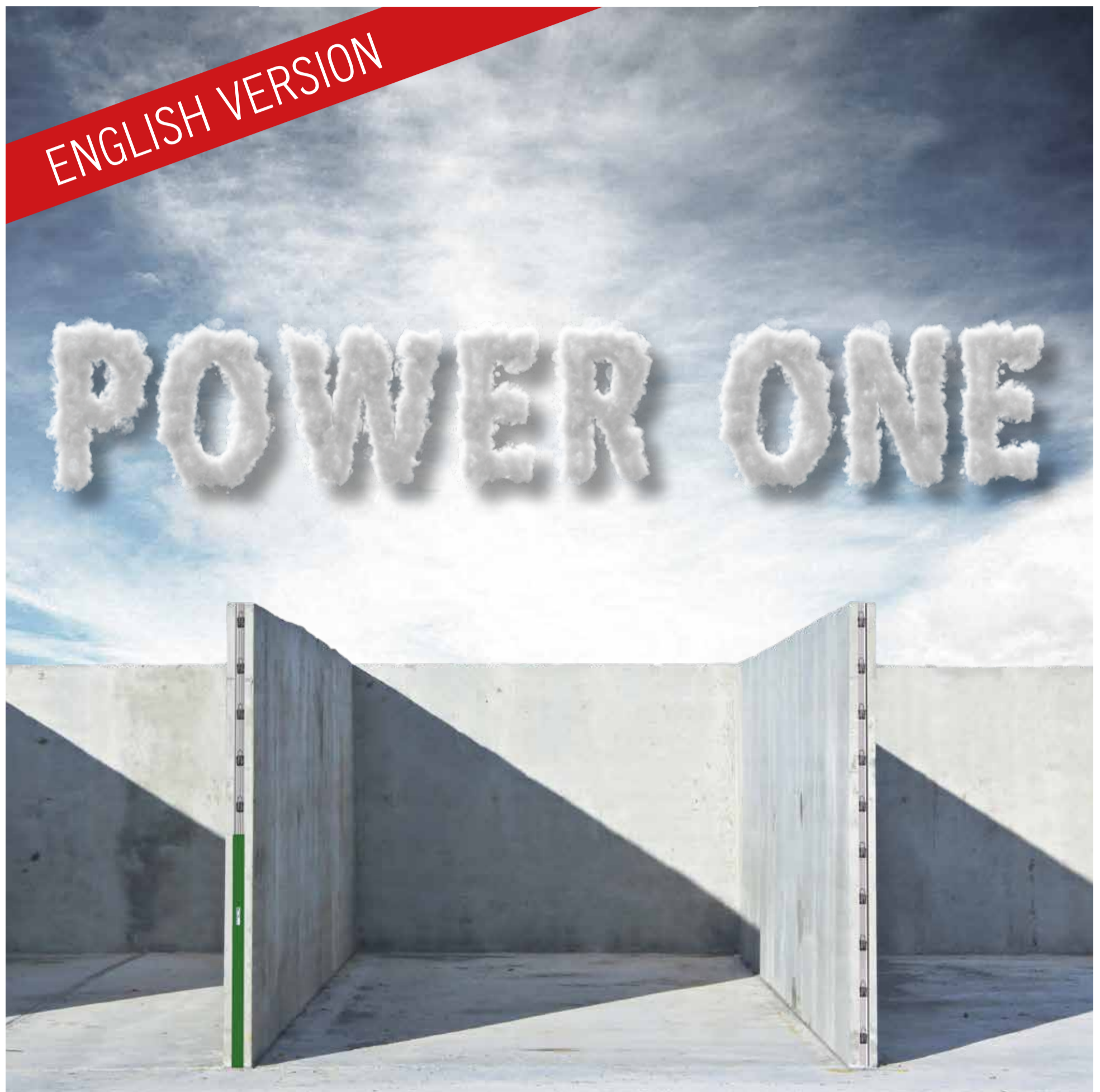
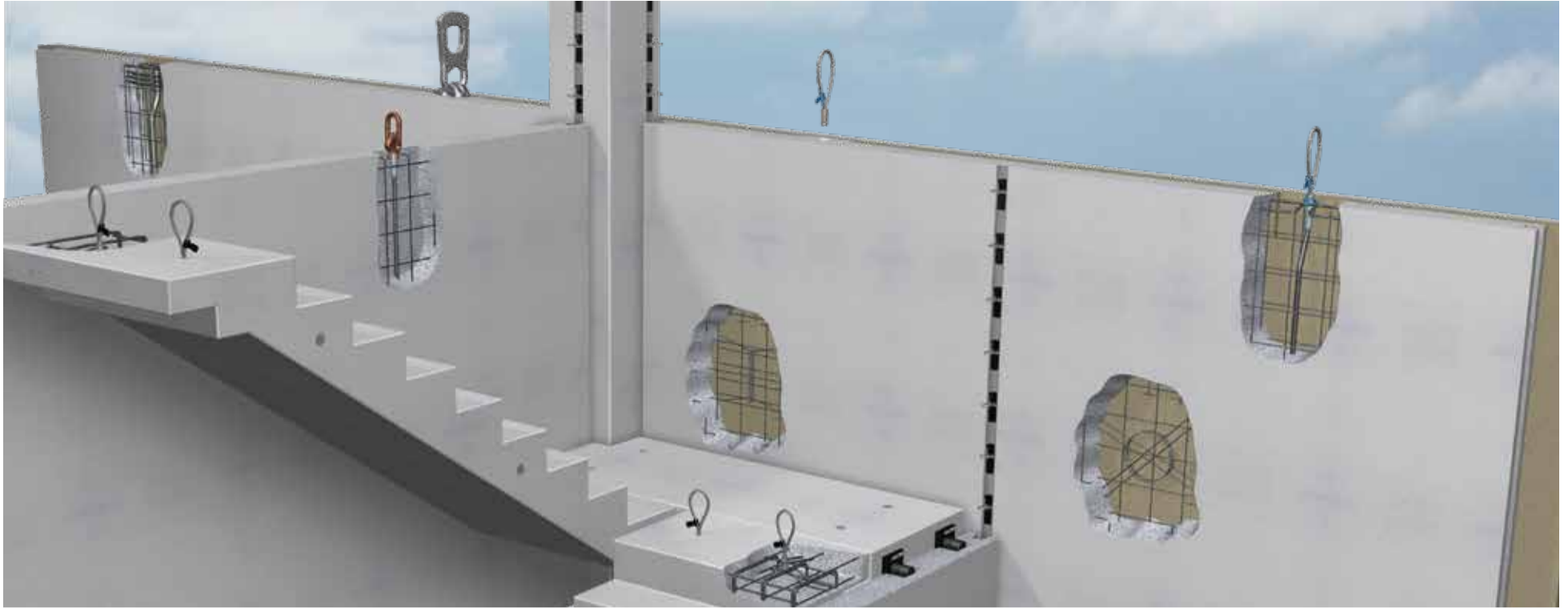


PHILIPP WORLD

We provide strength and stability in an ever-changing world.



- **Power One** One for all! - New connecting rail from PHILIPP
- **Nailing plate for diagonal tension** „Misalignment” increases safety and saves time and material
- **Power OS** Rails are the future of connection technology
- **PHILIPP Sealing cap (plastic)** Covering of transport anchor recesses - easy going!
- **Architectural recess** The strong system for an easy and safe anchor fixation
- **Wire protection pulley made of POM** Suitable protection for Cast-in lifting hoops to reach always full capacity
- **TSS** Premium bearing system certified and reduces noise
- www.philipp-group.de



One for all! – New connecting rail from PHILIPP

The new, approved connecting system PHILIPP Power One is a consistent advancement and supplement of the PHILIPP Power Duo system, which has been quite successful for more than one decade. Nowadays, such installation part systems with flexible steel wire ropes are the leading technology with their wide range of applications in order to connect reinforced concrete elements in modern precast constructions. The Power One system is designed for applications in thin concrete elements and therefore expands our Power Duo system perfectly. Now, thin wall elements starting with 10 cm thickness can be connected in the well-known way of installation reaching a load capacity never had before.

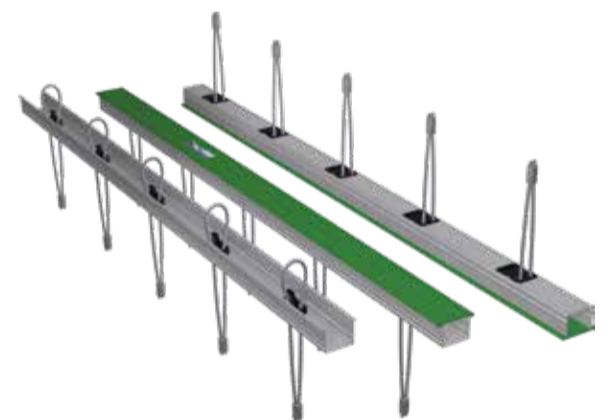
This worldwide unique connecting rail system for thin elements consists of two similar connecting rails opposing each other (profile 50x40 mm) and so is extremely easy for installation. As usual, the rail has five loops at a distance of 25 cm. These are arranged symmetrically so that there are no restrictions with regard to the direction of installation.

The Power One is made like all connecting rails from PHILIPP of a highly performed structured steel sheet. This creates a strong form-fit connection of the steel body with the concrete and mortar core in combination with the overlapping of the wire rope loops. Therefore a load transfer of forces in all three directions, shear forces parallel and right-angled to the joint as well as tensile forces, is given. The design of the actual forces is the same as with the established Power Duo system and easy daily routine. The maximum design resistance values of 60 resp. 37,5 kN/m for shear forces parallel resp. right-angled to the joint and 40 kN/m for tensile forces show the high efficiency of the system. If forces from different directions occur at same time, only a simple interaction has to be made. Here, very good tensile force coefficients favour the verification of the tensile forces required for the design.

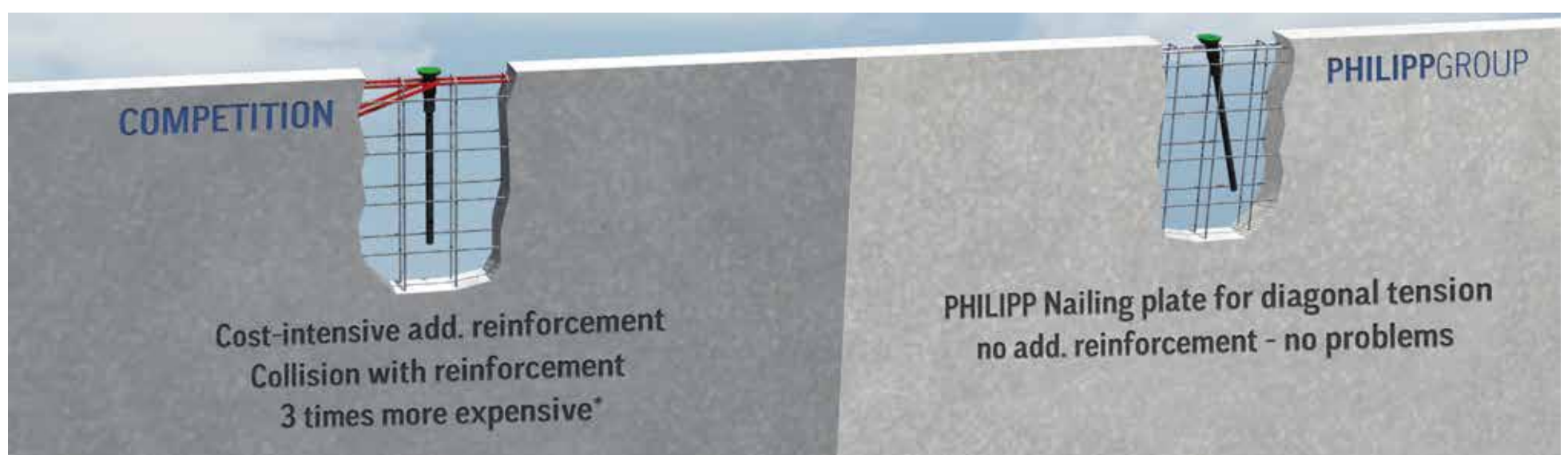
The field of application for the Power One, which can be easily identified from other PHILIPP systems by a green plastic cover, is as wide as usual. Wall/wall connections are the main application of Power One as the Power Duo is more suitable for wall/column

connections (easy installation). The system is suitable for firewalls according to DIN as it is highly resistant against fire and certified. An installation of such a connecting rail is much easier and more economical in direct comparison to installing many single boxes. To get a perfect connection we recommend to use BETEC® grouting mortar from GCP Germany GmbH or a local GCP supplier.

Herewith the product range of our connecting systems is enlarged but some more innovations are still to come.



Reduced cost of installation: No need of additional reinforcement bars



*depending on load class up to three times the amount of material and time costs.

News for precast concrete construction

„Misalignment“ increases safety and saves time and material

The fact that even small changes can cause a high improvement you can see with our new PHILIPP Nailing plate for diagonal tension for the Threaded anchor system. This PHILIPP Nailing plate places the anchor automatically in an angle of 15° and so there is no need for an additional diagonal rebar in case of lifting angles between 0 and 30°. In addition to the calculable material and time savings for the installation of the new Nailing plate, the increase in safety is particularly convincing, as possible application errors are eliminated. The PHILIPP Nailing plate for diagonal tension can be used without changing anything regarding the design method for the transport anchors and so there is a good chance to create a new beneficial standard of installation method for diagonal tension.

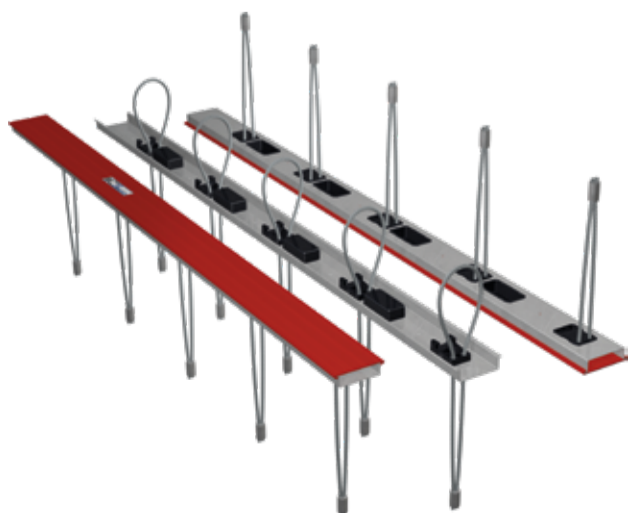


Rails are the future of connection technology

Beside the brand new Power One system for the application in thin precast elements a further unique system has just been certified: the PHILIPP Power OS. “OS” stands for “on-site” and thus indicates a new area of application with connections between (semi-finished) precast elements and in-situ concrete constructions as well as double-walls. The rail, which is just 20 mm deep, is only required on one side and with its long wire rope loops it fits in the in-situ concrete/double-wall construction.

High design resistance values in all three directions and a wide range of possible applications are of course available and already standard.

You will see the new Power OS rails with striking red plastic cover soon!



Covering of transport anchor recesses – easy going!

Our wide range of plastic coverings for transport anchors is completed with a conical, custom-made plastic sealing cap.

The new, concrete-grey plastic cap offers a fast, tool-free and long-lasting surface-flush closing of all recesses of the KHN System. Here, only four types cover the complete range of this system from M/RD12 to M/RD 52.

You can have a well-priced alternative to stainless steel sealing caps, absolutely plain to the surface and visually attractive.



The strong system for an easy and safe anchor fixation

The new system of retaining and sealing caps from M/RD12 to M/RD30 enables an easy installation of threaded transport anchors (in walls) as well as a safe closing of recesses with sealing caps. This new system is the sum of on the one hand increasingly heavier elements and resulting larger transport anchors and on the other hand the wish from the customer site for the smallest possible recesses.

Based on the idea of the proven KH system, the new system combines variability and aesthetics. Highlight of the system is a magnetic retaining cap with extremely high adhesive force for fixing the transport anchors to a steel mould. On the other hand, for wooden moulds a nailing plate is available. Both the fixation of the anchor as well as the removal of the components after concreting can be done very easily. By using tight sealing caps made of plastic or stainless steel a perfect closing of the recesses is possible.



Suitable protection for Cast-in lifting hoops to reach always full capacity

Generally, PHILIPP Cast-in lifting hoops convince every day as a transport anchor by easy handling and multifunctional applications in various elements. In order to avoid a reduction of the load bearing capacity a deformation, e.g. by using a small shackle or hook, of the loop should be avoided.

For this purpose, PHILIPP offers a Wire protection pulley as an accessory. These are already available in a steel version, a plastic-based version made of so-called POM plastic is new now. POM is characterised by high strength, hardness and stiffness and is of course much lighter than the steel version and therefore easier to handle.

The Wire protection pulley is available in six sizes that cover the entire product range of the Cast-in lifting hoops.



Premium bearing system certified and reduces noise

PHILIPP has a further premium load bearing system for the TSS system which is certified and increases the noise reduction capacities.

A total of three different elastomeric bearings from the company Calenberg are now available, which can be added to the system according to customer needs. This means that the wishes for (increased) noise reduction (in accordance with DIN 4109), load-bearing capacity and quality can be met even more individually. The TSS-system is the most suitable system for the bearing of precast stairs, landings and slabs. An easy installation as well as the flexibility are the reasons for the big success of the system.



Strength and stability PHILIPPGROUP

Our customers trust us to deliver. We do everything in our power to reward their faith and we start each day intending to do better than the last. We provide strength and stability in an ever-changing world.

Welcome to the PHILIPP Group.

Sustainable
solutions

PHILIPPGROUP



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