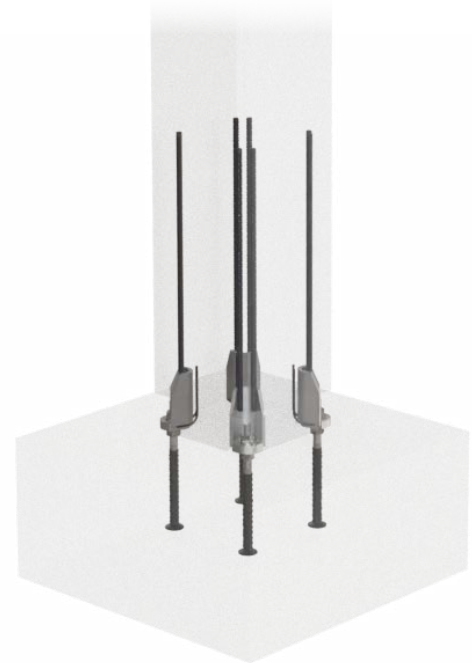


HELKA® Column Shoe

Robust and Optimized Bolted Column Connections

- Full-scale tested and approved connection – stiffness, resistance against bending and shear, and performance in fire.
- Safe, simple, and quick erection of precast column with no bracing and welding.
- Fast and cost-efficient column assembly with a reduced man- and crane-hours.
- Design efficiency using Peikko Designer® BOLTED CONNECTION software.
- Advanced casting process with the help of standard accessories.
- Fast and easy column assembly.
- Covered and verified by European Technical Assessment (ETA).
- High-performance Column Shoe with right of access to CE marking.



HELKA® Column Shoes are construction products to form fast and safe connections between precast concrete columns and foundations, or between precast concrete columns. HELKA® Column Shoes are used with HPM® Rebar Anchor Bolts or COPRA® Anchoring Couplers to create moment-resisting column connections under heavy loading conditions.

The standard bolted column connection is made using column shoes and anchor bolts. The column shoes are cast into a precast concrete column, while anchor bolts are cast into the foundation or another column. On the construction site, the columns are erected onto the anchor bolts and adjusted to the correct level and vertical position. Fastening is achieved by tightening nuts on the anchor bolts. The joint between the column and the structure below should be grouted before the column is loaded. The connection acts as a reinforced concrete structure after the grout has reached the designed strength.

The main advantage of using bolted connections is that an immediate connection is made with a small crew. The column is installed without temporary bracing only by leveling and tightening the nuts.

With a help of standard accessories casting process is quick and easy both at the precast factory and construction site. The solution is cost-efficient by final savings coming from reduced excavation depth of the foundation, simplified supplementary reinforcement frame, and less man- and crane-hours.



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