

Reinforcement against punching failure of slabs

- Higher resistances than stirrups
- Simple and efficient installation
- Optimizing the construction height of the building
- Approved acc. to ETA-13/0151 for static and non-predominantly static loading
- Available in Peikko Designer®

PSB® is a building product mainly used as vertical reinforcement to increase the punching resistance of concrete flat slabs or ground slabs. The type, geometry and dimensions PSB® may be designed and the resistances of concrete members reinforced by PSB® elements may be verified using Peikko Designer®.

The properties of PSB® as well as the resistances of slabs reinforced by PSB® are approved within the European Technical Approval ETA-13/0151.

PSB® is manufactured and delivered in form of reinforcement elements that consist of double headed steel studs connected by an assembly profile. Since the product is designed and pre-fabricated by Peikko, the installation of the product is much simpler than it is for other traditional reinforcement elements (stirrups). This applies for the case when PSB® is used in cast-in situ or in pre-cast elements.

PSB® reinforcement is fully integrated in the concrete slab and is thus an ideal reinforcement system for monolithic slim-floor structures or flat concrete slabs in general. The double headed studs used in PSB® reinforcement elements enable the slab to develop a resistance that is up to 40% higher than the resistance of a slab reinforced by traditional reinforcement techniques such as stirrups.

