

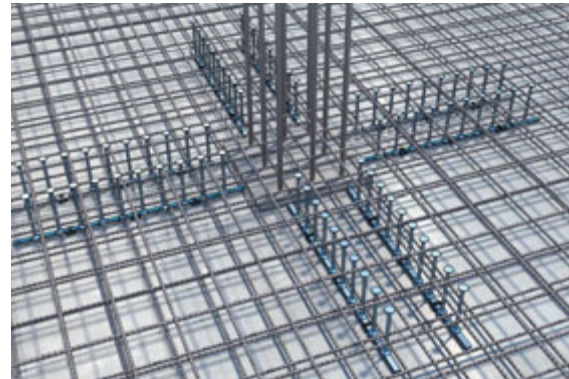
# DSA Reinforcement System

To prevent the punching failure of concrete slabs

- Allows for a slim floor
- Eliminate column capitals and dropdown panels above columns
- Fast and easy installation
- Improves the ductility of the slab
- Flexibility in design and delivery
- Design for static and seismic loading using Peikko Designer® software (in accordance with ACI 318-14)



DSA Rail



DSA Reinforcement System

Peikko's DSA Reinforcement System is mainly used to increase the punching shear resistance of cast-in-place concrete slabs without increasing the slab's thickness. DSA can be used in slab-on-grade foundations and in elevated slabs, such as reinforced concrete slabs or post-tensioned slabs. When used in elevated slabs, DSA can eliminate the need for drop panels or column caps, thus reducing the costs associated with the formwork of concrete. Moreover, a thinner slab will lead to a lower floor-to-floor height and subsequently, a reduced building height and the possibility of having an extra floor within the same building footprint.

In addition to increasing the resistance of the slab, DSA Reinforcement System also increases its ductility. When compared to other reinforcement systems, DSA has the added benefit of expeditious installation times, leading to reduced labor costs.

DSA Rails consist of double headed studs attached to a steel shape. The type, geometry and dimensions of DSA Rails may be designed and the resistances of the concrete members reinforced by DSA Rails may be verified in accordance with CSA A23.3-14.