

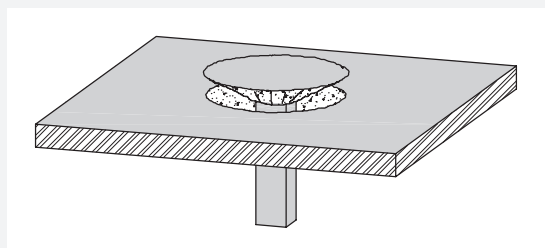


Punching shear reinforcement.
Perfect solution for flat slabs.

Eliminate punching shear failure.

With Schöck Bole Type SR.

Cost effective, dynamic and simple to install: Schöck Bole is an efficient solution when reinforcing flat slabs with shear studs. It guarantees optimum force resistance around columns and prevents punching shear failure. The reinforcement element is easy to install, either at the prefabricating plant or on site.

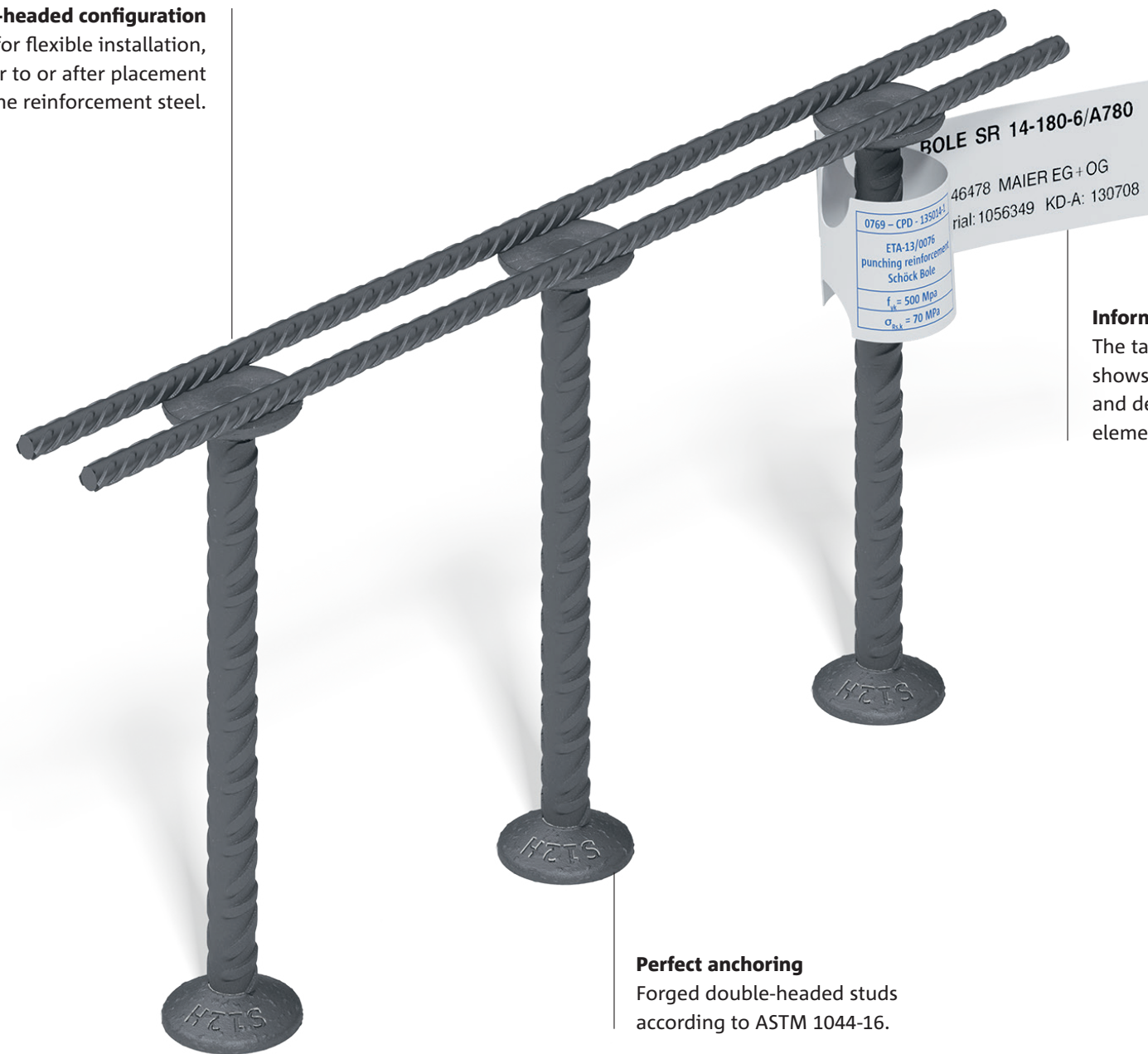


High loads at column connections of flat slabs can cause fatal punching failures. Schöck Bole Type SR provides reliable shear force resistance, eliminating punching shear failure.



- ▶ **Dependable force resistance**
Flattened heads reliably anchor the forces.
- ▶ **Easy to assign**
Positioning details are right on the information tag.
- ▶ **Engineered for optimal bonding**
Deformed shaft improves bond to concrete.
- ▶ **Fast and flexible installation**
Ready to install when you are.

Double-headed configuration
Allows for flexible installation, prior to or after placement of the reinforcement steel.



Perfect anchoring
Forged double-headed studs according to ASTM 1044-16.

Information tag
The tag at the first stud shows the exact location and description of the element.



Studs arrive attached to non-structural rails, alleviating the need for on-site welding and ensuring correct spacing.

Schöck Bole Type SR.

Basic specifications.

Schöck Bole Type SR

| | Material | Yield strength [MPa] | Tensile strength [MPa] | Ultimate strain [%] | Status |
|--------------|----------|----------------------|------------------------|---------------------|--------|
| Bole Type SR | B500B | > 500 | > 540 | > 20 | OK |
| ASTM 1044-16 | S350 | > 350 | > 450 | > 20 | OK |

Load-bearing resistance

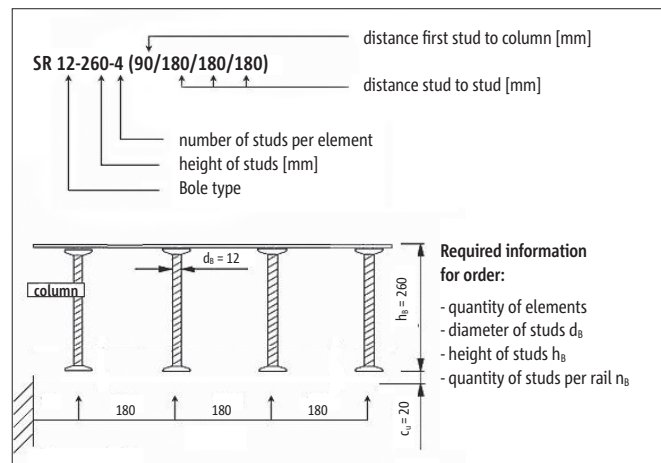
| Stud diameter d_s | | Yield strength [kN] | | Tensile strength [kN] | |
|---------------------|-----------------|---------------------|-------|-----------------------|-------|
| Bole Type SR | Equivalent ASTM | Bole Type SR | ASTM | Bole Type SR | ASTM |
| 10 | 3/8" | 39.3 | 24.8 | 42.4 | 31.9 |
| 12 | 1/2" | 56.5 | 44.3 | 61.1 | 57.0 |
| 16 | 5/8" | 100.5 | 69.5 | 108.6 | 89.4 |
| 20 | 3/4" | 157.1 | 100.3 | 169.6 | 128.9 |

Stud geometry

| Stud diameter d_s | | Head diameter d_h [mm] | | Anchorage area head [mm ²] | |
|---------------------|-----------------|--------------------------|------|--|------|
| Bole Type SR | Equivalent ASTM | Bole Type SR | ASTM | Bole Type SR | ASTM |
| 10 | 3/8" | 32.0 | 30.1 | 726 | 641 |
| 12 | 1/2" | 40.0 | 40.2 | 1144 | 1143 |
| 16 | 5/8" | 51.0 | 50.3 | 1842 | 1789 |
| 20 | 3/4" | 64.0 | 60.4 | 2903 | 2579 |

Available stud dimensions

| Stud diameter d_s [mm] | Available length [mm] |
|--------------------------|-----------------------|
| 10 | 130 - 700 |
| 12 | 130 - 700 |
| 16 | 170 - 1400 |
| 20 | 200 - 1400 |



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