Expansion anchor

The invention relates to an expansion anchor according to the preamble of claim 1. Such an expansion anchor is designed with a bolt as a first element and with an expansion sleeve, which at least partially surrounds the bolt, as a second element, wherein the bolt has an expansion region for spreading apart the expansion sleeve, wherein one of the two elements, particularly on an external peripheral surface or internal peripheral surface, has a groove running in the longitudinal direction of the expansion anchor and the other element has a projection, which engages at least sectionally in the groove.

Expansion anchors are known from DE 101 08 844 A1, for example. They are used in a borehole in a substrate, e.g., in a wall or a ceiling of a construction unit. By pulling the expansion region of the bolt into the expansion sleeve, the latter is radially widened and the expansion anchor is anchored in the substrate.

EP 0 515 916 A2 and DE 2 256 8 12 A1 describe expansion anchors, in which an anti-rotation means of the expansion sleeve on the bolt is prevented by a groove guide.

The object of the invention is to provide an expansion anchor, which achieves particularly good load values, while having low production costs and high reliability.

The object is achieved according to the invention by an expansion anchor with the features of claim 1. Preferred embodiments are indicated in the dependent claims.

The expansion anchor according to the invention is characterized in that the groove has a narrowing that inhibits an axial movement of the expansion sleeve relative to the bolt.

According to the invention, the groove has a narrowing that inhibits an axial movement of the projection relative to the groove, and thus an axial movement of the expansion sleeve relative to the bolt, preferably an axial movement of the expansion sleeve relative to the bolt into the expansion region.

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EP 0 515 916 A2 and DE 2 256 822 A1 describe expansion anchors, in which an anti-rotation means of the expansion sleeve on the bolt is prevented by a groove guide.

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