

Title (en)
DRY CONNECTION SYSTEM OF PREFABRICATED ELEMENTS

Title (de)
TROCKENVERBINDUNGSSYSTEM VON FERTIGBAUTEILEN

Title (fr)
SYSTÈME DE LIAISON À SEC D'ÉLÉMENTS PRÉFABRIQUÉS

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Abstract (en)
The present invention relates to a connection system of prefabricated elements used in the construction of industrial, commercial and civil buildings. More specifically, the present invention proposes a connection system of prefabricated elements by coupling based on the combined formation mechanisms of extraction cone and adhesion. The connection can be oversized with respect to the reinforcing ribbed bars of reinforced concrete with the resistance hierarchy criterion, in order to ensure ductile capacities and stable energy dissipation and consequently the use of structures in seismic areas with traditional design methods. The connection system of prefabricated elements according to the invention is characterized in that it comprises an anchoring device which provides for the use of high-strength bars with continuous threading and in that all the elements of the anchoring device, when the device is assembled, are completely inserted in the castings of the prefabricated concrete elements so that there are no mechanical parts protruding from the encumbrance of the elements themselves. The use of a special element also allows the support of the loads in the transitory phase and the mechanical adjustment of the verticality/alignment of the overlying structural element.

IPC 8 full level
E04B 1/21 (2006.01)

CPC (source: EP)
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Citation (search report)

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