Reinforcement of Embedded Distribution Boxes

All material models for regular reinforcement bars and grids are available for reinforcement in structural interfaces as well; for details see Embedded Reinforcements.

In order to evaluate the feasibility of the proposed method for actual bridges, an old multi-beam box girder bridge was reinforced, and structural parameters including strain, frequency, and deflection ...

Precast box girder bridges can be constructed by placing the girders side-by-side to create a roadway surface without constructing a deck. Without an adequate transverse connection, these girders will ...

ABSTRACT The paper pre sents a novel sustainable technique for shear strengthening of reinforced concrete (RC) beams utilizing embedded aluminum boxes and prestressed high ...

In industrial sites and outdoor environments, power distribution equipment faces challenges from vibration and occasional impacts. The impact resistance of stainless steel weatherproof box is ...

and pile cap or footing will affect the stresses in the rest of the structure. The fixity of the connection can be developed using a combination of different methods, including providing suf-ficient embedment ...

The investigation aims to evaluate the impact of three key parameters on the shear behavior of strengthened beams: amount of aluminum boxes, kind of filling concrete, and availability ...

The paper presents a novel sustainable technique for shear strengthening of reinforced concrete (RC) beams utilizing embedded aluminum boxes and prestressed high-performance ...

Continuous post-tensioned box girder construction is achieved by stressing long tendons that reach the full length of the continuous unit. The tendons are anchored at either end of the unit with geometry ...

In embedments designed for direct loading, the concrete pullout strength must be greater than the tensile strength of the steel. This report presents a series of design examples of ductile steel ...

Reinforcement grids can be embedded in all solid elements. Typically, the location points are on the edges of the solid element but they can also be inside the element domain.

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