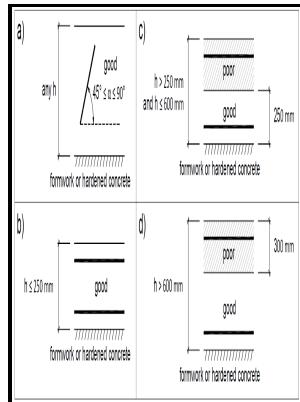


Prestressed concrete with special reference to anchorage and bond.

University of Birmingham - Strand bond performance in prestressed concrete accounting for bond slip



Description: -

-Prestressed concrete with special reference to anchorage and bond.

-Prestressed concrete with special reference to anchorage and bond.

Notes: Thesis (Ph.D.)-University of Birmingham, Department of Civil Engineering.

This edition was published in 1974



Filesize: 45.105 MB

Tags: #PRESTRESSED #CONCRETE #IN #HIGHWAY #BRIDGES #AND #PAVEMENTS

Influence of concrete composition on anchorage bond behavior of prestressing reinforcement

The results can provide reference for the similar projects. Prestressed Concrete is a valuable guide for practicing engineers, students, and researchers.

Influence of concrete composition on anchorage bond behavior of prestressing reinforcement

Carra G, Carvelli V 2015 Long-term bending performance and service life prediction of pultruded glass fibre reinforced polymer composites. El-Hacha R, Gaafar M 2011 Flexural strengthening of reinforced concrete beams using prestressed, near-surface-mounted CFRP bars. The change of diameter from the original value at the end to the reduced value after the transmission length, creates a wedge effect in concrete.

Important Questions and Answers

To illustrate a typical example, the fixed anchorage of the example of embodiment described may have the following dimensions and contain the following materials: The stressed member may for example consist of twelve individual stressed wires 7. Sayed-Ahmed EY, Lissel SL, Tadros G, Shrive NG 1999 Carbon fibre reinforced polymer CFRP post-tensioned masonry diaphragm walls: prestressing, behaviour, and design recommendations. J Compos Constr 10 1 :60—68.

US3425177A

The response of the confining concrete against radial expansion of the strand is calculated in a second 2-D FE model of the concrete cross section. BOND MODEL FOR PRESTRESSED STRANDS IN FIRE EXPOSED CONCRETE This paper presents an elastoplastic bond-slip model for simulation of the anchorage behavior of prestressed strands in concrete structures under both ambient and fire conditions. Define bonded and non bonded prestressing concrete.

Shear, bond bearing, camber & deflection in prestressed concrete

Provided at the inner end face of the anchor head, adjacent the perforated disc 7, is a transition pipe 12 with the filler pipe 13.

PRESTRESSED CONCRETE IN HIGHWAY BRIDGES AND PAVEMENTS

This paper presents the results of an experimental research program addressing the bond behavior of prestressing strands in pretensioned prestressed concrete members after anchorage failure has occurred. Michels J, Sena-Cruz J, Czaderski C, Motavalli M 2013 Structural strengthening with prestressed CFRP strips with gradient anchorage. Hosseini A, Ghafoori E, Motavalli M, Nussbaumer A, Zhao X-L 2017 Mode I fatigue crack arrest in tensile steel members using prestressed CFRP plates.

US3425177A

Transmission- and anchorage-length tests were performed on several series of prestressed specimens with different embedment lengths using twelve concrete mixes.

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