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Strengthening Of Reinforced Concrete Slabs

One slab was used as a control while the other five slabs were strengthened with various fibre reinforced polymer (FRP) strengthening systems, each having 0.12% external FRP reinforcement ratio.

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Two slabs were strengthened with externally-bonded FRP (EB-FRP) system, one slab with end-anchorage and one slab without end-anchorage.

Strengthening of reinforced concrete slabs with ...

FRP strengthening materials was very successful in strengthening reinforced

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concrete beams and slabs in flexure. However, it does not contribute much to punching shear of slabs due to the limited ...

(PDF) Strengthening of Reinforced Concrete Two-Way Slabs

Ductility of strengthening slab with shear connector is greater than that of

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the overlaid slab without shear connector. Also, it can observe brittle shear failure and debonding of contact surface...

(PDF) Strengthening of Reinforced Concrete Slab by ...

There are also some other techniques used for strengthening a reinforced

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concrete slab such as: Increasing the shear bearing capacity of the slab by adding steel plates strengthened by vertical screw bolts. Strengthening of the slab by post stressed reinforcement. Adding steel beams.

STRENGTHENING TECHNIQUES- R.C. SLAB

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The concrete to be strengthened with CFRP was sandblasted and cleaned properly. with compressed air before bonding. The damaged slab is repaired with 2 CFRP composite strips, 300mm. wide and 1400mm long for each one, glued onto the tension faces of the structure, in the central area (Fig. 5).

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Repair and Strengthening of Damaged Reinforced Concrete ...

Two methods for strengthening two-way reinforced concrete floor slabs subjected to out-of-plane bending loads are compared through experiments on seven test specimens and subsequent analyses. The seven test specimens were two unstrengthened regular

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reinforced concrete slabs (control), two slabs strengthened using glass-fiber-reinforced polymer (GFRP) sheets, and three slabs strengthened with an innovative method of applying a layer of fiber-reinforced cement (FRC) in varying thicknesses to ...

Strengthening Two-Way Reinforced

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Abstract. Six prototype one-way RC slabs with openings were strengthened with externally bonded carbon fiber-reinforced polymer (CFRP) systems and subjected to concentrated line loads. The results were compared to those of a solid slab without opening and a slab with an unstrengthened opening. The

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CFRP system proved to be effective in enhancing the load-carrying capacity and stiffness of RC slabs with an opening, provided that premature failure due to CFRP debonding is excluded.

Strengthening of Openings in One-Way Reinforced-Concrete ...

The situations in which the reinforced

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concrete slabs require the intervention for repairs or strengthening are the following [1]: a) Repairing damaged/deteriorated concrete slabs to restore their strength and stiffness. b) Corrosion of the reinforcement. c) Limiting crack width under increased (design/service) loads or sustained loads.

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TRADITIONAL SOLUTIONS FOR STRENGTHENING REINFORCED ...

FRP strengthening of existing structures can involve complex evaluation, design, and detailing processes, requiring a good understanding of the existing structural conditions along with the materials used to repair the structure

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STRUCTURE magazine | Strengthening of Concrete Structures ...

The use of ultra-high performance concrete (UHPC) to strength existing reinforced concrete (RC) structures in flexure has been explored in recent

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decades. As UHPC developed in different countries performed different properties, the effectiveness of RC structures strengthened with UHPC varies.

Flexural strengthening of reinforced concrete beams or ...

Strengthening of High Strength Reinforced Concrete Slabs with CFRP

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Laminates. A Master of Science thesis in Civil Engineering by Hasan Saleh Mahmoud entitled, "Strengthening of High Strength Reinforced Concrete Slabs with CFRP Laminates," submitted in May 2016.

**Strengthening of High Strength
Reinforced Concrete Slabs ...**

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This paper deals with flexural strengthening of reinforced concrete (RC) slabs with a carbon textile reinforced concrete (TRC) system. The surface coating treatment was applied to a carbon grid-type textile to increase the bond strength. Short fibers were incorporated into the matrix to mitigate the formation of shrinkage-induced

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Flexural Strengthening of Concrete Slab-Type Elements with ...

Strengthening of existing concrete structural elements is a viable means for improving the performance of such elements. Plenty of strengthening-related research work on beams and

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columns has been conducted. However, research work related to two-way slab strengthening is very scarce.

Strengthening of reinforced concrete two-way slabs ...

These cracks rarely occur in slabs-on-grade but will always occur on elevated slabs if not reinforced with rebar or

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welded wire fabric. If flexural cracks do develop in slabs-on-grade, there is a problem with the subgrade. ... The use of fiber does not have a major effect on the compressive strength of the concrete. Several types of fiber exist ...

FIBER REINFORCING IN CONCRETE SLABS, WHAT YOU NEED TO KNOW

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A corrugated slab is designed when the concrete is poured into a corrugated steel tray, more commonly called decking. This steel tray improves strength of the slab, and prevents the slab from bending under its own weight. The corrugations run in one direction only. A ribbed slab gives considerably

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more strength in one direction. This is achieved with concrete beams bearing load between piers or columns, and thinner, integral ribs in the perpendicular direction.

Concrete slab - Wikipedia

The capacity V_c of concrete in sections reinforced for shear is $2.0bwd\sqrt{f_c'}$. The

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strength of stirrups can be added to the concrete strength V_c to determine the total strength of a section. Required stirrups must be spaced no more than $d/2$ apart where $V_n/(bwd) < 6.0\sqrt{f_c'}$. Where $V_n/(bwd) > 6.0\sqrt{f_c'}$, maximum stirrup spacing becomes $d/4$. The compressive strut capacity of concrete is

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Chapter 2 Design for Shear - Engineering

Online Concrete Slab on Grade Analysis
Calculator For Slab Subjected to Interior
Concentrated Post or Wheel Loading
Assuming Slab is Reinforced for
Shrinkage and Temperature Only.

Calculators for structural engineers,
construction professionals and steel

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Concrete Slab on Grade Analysis Calculator (for Post or ...

Slabs Strengthened with Fiber
Reinforced Polymer (FRP) Glass or
Carbon FRP is a cost-effective system for
strengthening concrete floors and decks
or correcting design and construction

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errors that have lead to excessive deflection and sag in the slab. The case history below highlights one such application.

QuakeWrap - Slabs

If the fiber's modulus of elasticity is higher than the matrix (concrete or mortar binder), they help to carry the

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load by increasing the tensile strength of the material. Increasing the aspect ratio of the fiber usually segments the flexural strength and toughness of the matrix.

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