

عنوان مقاله:

PRACTICAL APPLICATION OF INNOVATIVE TECHNOLOGY IN FLOOR CONSTRUCTION

محل انتشار:

سومین کنفرانس بین المللی بتن و توسعه (سال: 1388)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

The main objective of this paper is to show the benefits of using innovative technology i.e. post-tensioning and concrete core activation for the more widespread practical applications in concrete buildings. In consideration of the spans up to 20.00 m and heavy superimposed loads structures built using unbonded post-tensioning systems provided many advantages compared to conventionally reinforced concrete structures. The advantages of using post-tensioning with unbonded tendons, structural behavior, concerning constructive aspects and economy will be illustrated by the presentation of several commercial building and parking structures. Reductions in concrete and reinforcing steel quantities are two of the advantages that directly impact overall construction costs. Concrete core activation is a heating and cooling system based on simple physical principles to create a low-cost system. Concrete .possesses a large capacity to store heat, and water functions well as a heat conductor

کلمات کلیدی:

unbonded post-tensioning, free tendon layout, floor construction, fire protection, fire resistance, concrete core activation

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