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A Comparison on Reinforcement of Columns with Conventional Concrete and Carbon Fiber/ Epoxy Exposed to Compression Loading

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Within the scope of this study, reinforced concrete column specimens were designed and fabricated to be strengthened, composite specimens and concrete reinforced specimens were put into the compression test and performance tests were carried out. In the first stage of the project, column design and mold designs are completed. Later, the materials to be used in the production of the column were selected. In the second stage of the project, the columns were manufactured and reinforced by two different methods. The reinforced columns were inserted into the compression test and analyzed. Cost and performance comparisons were made.