

HIGHER TECHNICAL INSTITUTE

CIVIL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

**AN EXPERIMENTAL INVESTIGATION INTO THE
CAPACITY EPOXY-ANCHORED DOWEL BARS**

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PREFACE

The main object of this project is to investigate experimentally the capacity of epoxy-anchored dowel bars.

Twelve cubes were made and the grade was used was 20kn/m² for the six cubes and 14kn/m² for the other six cubes.

For every grade three cubes of dimensions 150x150x150 mm were taken to evaluate the compressive strength. The cubes were tested in compression at a testing machine at 28 days.

In the other three cubes of each grade, after the period of 28 days steel bars with epoxy were used and then the tensile test was made so to find the force that was needed to pull out the steel bars from the cubes.

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