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CIVIL ENGINEERING DEPARTMENT

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THE FLEXURAL PROPERTIES OF GLASS
REINFORCED CEMENT

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*This report is submitted according to the regulations
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INTRODUCTION AND SUMMARY

All new materials require a period of careful investigation in order to establish properties, product potential, design and manufacturing methods. On this basis market recognition and acceptance is achieved. Glassfibre reinforced cement has passed through this phase and is now treated as a material with significant inherent possibilities. Its potential given rise to particular grc products, pipes and permanent formwork. The latter employs the properties of this material to such a degree that it warrants its placement in a special category-unequaled by current alternatives. Codes of practices and british standards are now including glassfibre reinforced cement and thereby giving recognition to the material in its own right.

In this study the properties of flexural strength of glassfibre reinforced cement in relation to those of plain concrete are explored. In chapter one and two the properties of glassfibre and concrete on its own are discussed. In chapter three the properties of grc and materials are shown. Final in chapter four includes the tests, conclusions and recommendations