

Fyfe Company Technical Report Abstract BFB-28

Structural Engineering Evaluation of Test Data and Design Illustrations for the Tyfo FibrWrap Fiber Reinforced Composite System: Strengthening of Beams and Slabs

By Dr. C. G. Ekwueme, Dr. G. C. Hart

This report summarizes the results of an evaluation of the behavior of the Tyfo Fibrwrap System when used to strengthen slabs and beams in flexure and shear. In addition to providing calculations that predict the behavior of structural elements that are strengthened with the Tyfo Fibrwrap System, the report also provides examples that illustrate the procedures that can be used for designing an FRP system. Our evaluation shows that the Tyfo Fibrwrap System can be effectively used to improve the structural performance of beams, slabs and other structures, and that the analytical procedures outlined can accurately be used to predict response. The results of the experiment show that the Tyfo Fibrwrap System can be effectively used to improve the structural performance of beams, slabs, and other structures, and that the analytical procedures outlined can accurately be used to predict response.