

TO EVALUATE PROPERTIES OF TRANSLUCENT CONCRETE / MORTAR & THEIR PANELS

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ABSTRACT

In this paper, a TRANSLUCENT CONCRETE - novel construction material was manufactured with OPTICAL FIBRE by drilling through the cement and mortar in order to utilize the light guiding ability of OPTICAL FIBRE. The main purpose was to use sunlight as a light source in order to reduce the power consumption of illumination. Experiments to study the mechanical performance of the concrete infused with OPTICAL FIBRE were carried out.

KEYWORDS: Translucent Concrete, Optical Fibre, Mortar