

Use of architectural integrally finished GRC as permanent formwork on a residential development in Hong Kong

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Summary

Glassfibre-reinforced Concrete (GRC) has been widely used as permanent formwork for around 30 years, most commonly in civil engineering applications such as bridge deck construction. The inherent material properties and characteristics of GRC make it eminently suitable for formwork use, offering a convenient way of supporting wet concrete whilst providing a finished surface, with the added benefit of enhanced protection to steel-reinforced concrete contained within.

The paper describes the application of GRC permanent formwork in an innovative system for residential construction, making full use of the benefit of providing a high quality architectural finish without further on-site work as well as aiding the overall efficiency of the construction process.

Keywords: formwork, architectural, residential.