

Out of the box – breathing new life into structural asset design through hybrid structures and new age building materials

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This paper examines how the use of GFRP Reinforcing, FRP Pultruded Hollow Section and Geopolymer Concrete (Earth Friendly Concrete, EFC), through an array of features reduces installation and maintenance costs across the board as well as the carbon footprint while extending design life. Tracking the organic growth of GFRP, Geopolymer (EFC) and the resulting Hybrid structures from the early road bridges through to modern bulk carrier wharves and Airports.