Sustainable Built Environment Group

Departments of Engineering and Earth and Ocean Sciences

Multidisciplinary Team:

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Developing Sustainable Concrete Products Reducing Embodied Carbon

Recycled Demolition Aggregate

Building Blocks, Paving Flags, Paving Blocks 17% of Waste is Construction & Demolition Waste Reduces quarried aggregate extraction

Cementless Geopolymer Concrete

Green Concrete using 100% Recycled Materials 5% of worldwide CO_2 emissions is caused by cement production 1 tonne concrete = 0.8 tonnes CO_2

Recycled Glass

Green Ultra-High Performance Glass Powder Concrete

Employing our cementless technology
Less breakage = Less Replacements = Material Savings = Additional Carbon Saving











Demonstration Projects Reducing Operational Carbon

Thermal Modelling, Energy Monitoring, Renewable Energies Integration

Collaborators and Partners Include:























