

# LUCIDEON

## NOVEL CEMENT AND CONCRETE TESTING

### ABOUT LUCIDEON

Lucideon is a leading materials development and commercialisation organisation with expertise in the construction and materials industries.

Lucideon's expertise and analytical capabilities qualify us as experts in identifying, mitigating, and solving materials challenges across construction contexts and more, which can be adapted to ensure consistent quality and performance in products intended for use as building materials.

Lucideon's rare blend of capabilities and expertise supports product development and process validation at multiple stages to drive innovation across industries.



### CONTACT US:

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Contact us directly for more information on how Lucideon is shaping the future of construction through clean, efficient, and sustainable solutions

### THE CHALLENGE

Novel cement and concrete formulations may reduce the amount of Carbon Dioxide (CO<sub>2</sub>) generated from production processes when compared with Ordinary Portland Cement (OPC) products.

However, novel formulations and products require benchmarking to ensure their performance and safety standards are maintained.

### LUCIDEON'S OFFERING

With the help of EconoMISER funding (circa £6.75M) Lucideon has invested in additional equipment so that we can provide benchmarking of novel formulations and products. The new tests available include load bearing and accelerated environmental exposure.

#### Key benefits of using Lucideon's new testing equipment:

- Large samples of up to 10 metres in length can be tested for strain and shear loading
- Initial type testing of masonry units
- High loading of samples - up to 4000 kN for compression and 3-point bending
- Large Hygrothermal chambers for weathering and durability for samples of all sizes and benchmarking
- Fully equipped sample preparation at Lucideon to customer defined formulations and specification

Our scientists and engineers have years of expertise in adapting formulations and benchmarking cement and concrete products both chemically and physically, and this expertise combined with our new testing facilities provides the best results for our customers.

### APPLICABLE PRODUCTS AND INDUSTRIES

- Novel cement and concrete formulations
- Construction products (structural and non-structural)
  - Encapsulation products
  - Composite cements
  - Blast protection materials