



## Review of test data of an innovative modular construction system

### Background

Sarchex Ltd has researched and developed an innovative technology in the area of structural components designed for the construction industry. Product prototypes had been made and tested in mild steel and cast in concrete; these specimens performed well in laboratory tests. At this stage, Matthew Roberts, Director of Sarchex Ltd, identified the requirement for an academic review of the system's test data.

### Challenge

"A Sarchex Intellectual Property consultant introduced me to Nigel Reed Smith, E-iNet Broker" comments Matthew. "Nigel reviewed the Sarchex innovative construction system and recommended the E-iNet programme for appropriate funding support. The University of Portsmouth undertook the contract to assess the test data., and then used the remaining E-iNet funded time to produce an 'Engineering Consultancy Report' on a Finite Element Analysis based on data from laboratory tests on system prototypes."

### Solution

"Having an independent review of the company's test data" comments Nigel Reed Smith, E-iNet Broker, "was useful to Sarchex at this stage of commercialising its technology. The resulting Report was thorough, impressive in its level of technical detail and offered the company some additional avenues for deployment of the technology."

### Outcomes

The University's involvement assisted Sarchex with its application for additional R&D support from Innovate UK (the Technology Strategy Board).

The company's application for an 'Innovation Voucher' was successful and resulted in further testing being undertaken at the National Physical Laboratory in Teddington. The company is currently identifying a potential manufacturing partner for the technology to be developed under licence.