



What was Mtechs' brief?

Mantle Panel had developed the concept of an advanced SIP system that needed to be developed into a fully engineered building solution, with the relevant product approvals. Mtech Consult were commissioned to develop the new system and obtain LANTAC (Local Authority National Type Approval Confederation) Product Approval.



THE CLIENT

Mantle Panel Ltd was set-up to design, manufacture and install advanced SIP technology having identified the need for a high strength Structurally Insulated Panel (SIP) system for the UK construction industry.

What did the client want to achieve?

To obtain LANTAC Product Approval for the system

What did Mtech actually do? What did we facilitate?

Product design, development, testing and certification of the Mantle SIP system included the definition of standard details, the determination of material specifications, material characterisation and the assessment and testing of the product for compliance with Fire, Structural and Thermal performance Regulations. A separate durability assessment was also undertaken. In addition to the product characteristics, the manufacturing process and quality procedures for both manufacture and installation were developed. The Mantle system utilises different materials and building processes from other standard SIP systems. This required Mtech to modify standard tests to enable the cost-

effective assessment of the Mantle system. The product required Mtech to re-define standard building processes; this was integrated within the standard details that were designed by the Mtech team. Mtech submitted the standard details for LANTAC Product Approval and managed the assessment process through to a successful conclusion.

What was the result of the work Mtech carried out?

Mantle obtained their LANTAC Product Approval certificate (Ref No. 25977088)

Is Mtech likely to be required to offer any further support and if so what?

Mtech continued to give Mantle Panel Ltd technical support in meetings with Clients, Architects and Building Control to enable the company to bring the product to market in a low risk manner.

