

Composite Solid Cavity Wall Insulation for Hard To Treat Homes

The Client:

London Borough of Walthamstow - Priory Court estate

The Problem:

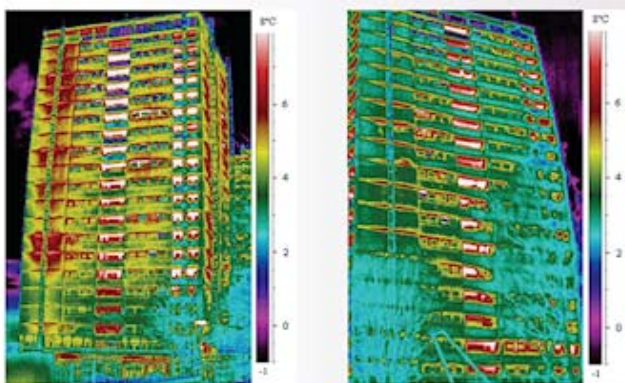
Urban Regeneration Programme – Priory Court estate. Built in the 1960's, this estate used an unusual combination of hollow terracotta block inner leaf with brick outer leaf – and no wall ties.

The inner leaf blocks were broken and crumbling and thus offering no means of support or fixing for the planned addition of outer cladding and a new roof.



The Solution:

Technitherm® (conforming to BS 7457:1994 & BBA Cert No. 97/3426) structural grade polyurethane foam was injected into the cavity. The foam filled into broken blocks giving them new strength. The process also bonded the inner and outer leaves creating a strong, stable structure ideal for the fixing and support of the new cladding and roof structure.



Before Technitherm® treatment: red & yellow show areas of high heat loss

After Technitherm® treatment: blue & green show reduced heat loss

The Outcome:

A highly stable and well-insulated structure, that rather than requiring demolition, was now ready to continue its purpose for many years to come. Insulation was increased to Building Regulation standards, reducing energy costs and thus the Carbon Footprint of the building.