

## Composite Solid Cavity Wall Insulation for Hard To Treat Homes

### The Client:

*City of Edinburgh District Council.*

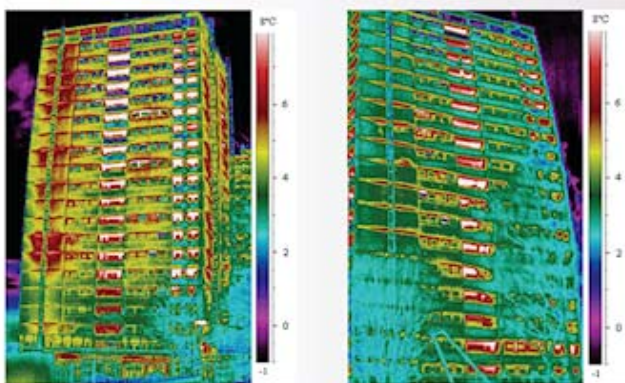
### The Problem:

Orlit designed non traditional housing built in 1940's and 1950's with cavity widths of approx. 171mm wide. Houses and 3-storey blocks suffering from poor insulation, some condensation problems and potential structural problems caused by water ingress resulting in carbonation and corrosion of reinforcement.



### The Solution:

Technitherm® insulation installed in the cavities to upgrade the insulation U-values to better than Building Regulations. The condensation caused by the cold walls was eliminated and as moisture penetration was prevented, the structure was stabilised from further deterioration.



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

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

### The Outcome:

The potentially unfit Orlit Houses were brought up to an excellent thermal and structural standard with reduced heating bills, and improved comfort for the tenants.

The only alternative, as happened in much of the Edinburgh post-war housing stock, was demolition with the subsequent upheaval and re-housing. The cost of the Isothane solution to the ratepayers was much less than a complete rebuild of new houses at the then market costs.