

CASE STUDY – Insulation & Stabilisation Solution for High Rise Block

BUFCA SUPPLIER: Isothane Ltd

THE SITUATION

At Kirkgate House, Leith, Edinburgh District Council wanted to resolve energy efficiency, wall tie and water penetration problems, ideally with tenants remaining in residence.

An external wall cladding scheme was rejected as this was found to be too costly at £1M. The cavity walls varied in width from 37mm to 180mm so conventional insulation materials could not be used. The wall ties were also corroded.

SOLUTION

Technitherm® insulation and stabilisation foam was able to satisfy all the client's requirements of affordability, full fill cavity insulation and no need for the tenants to move out. Injected polyurethane foam was installed in a timeframe of only four weeks. The U-values could be improved in excess of Building Regulation requirements, whilst simultaneously permanently bonding the inner and outer leaves together, negating any need to replace wall ties and ensuring exceptional weather tightness.

ENERGY SAVINGS

- Heating bills reduced by 77%
- Annual heating bill before treatment: £195 per flat
- Annual heating bill after treatment: £44 per flat
- Annual Carbon Emissions reduced by 590 Kg per flat.

