



Sandringham Drive Sefton Park, Liverpool

Sandringham Drive is a large, double-fronted, Victorian town house, in the Sefton Park district of Liverpool, which has been converted into a number of residential flats. The properties are owned and managed by the Liverpool Housing Trust, a charitable housing association.

From a visual inspection at ground level, the gable end wall was showing the typical early effects of a loss of lateral restraint. The wall was bulging, plus the brick masonry had stepped vertical fracture cracks running from the window sills to the adjacent window heads, on all three stories.

Specialist UK Restorations Ltd (SUKR) were asked to develop a remedial scheme, to repair the structural damage that had already occurred and to prevent any future re-occurrence of such structural movement problems.

A detailed scheme was produced by SUKR, which was quickly agreed with the Client. This involved a combination of Helifix steel lateral restraint ties being installed into the floor diaphragms, thereby eliminating any lateral movement, plus Helifix Cementies connected into the flank walls, to prevent any further movement in the gable end wall.

The only alternative course of action would have been the complete dismantling and rebuilding of the whole end elevation of the property.

SUKR's fast and innovative solution to the problem, also enabled the tenants to remain within their homes for the entire duration of the works. This resulted in the remedial works delivering an efficient and highly cost effective solution for the Client.

Project Summary

Problem: Visible bulging and cracking of external masonry

Result: Loss of lateral restraint and risk of structural failure

Solution: Helifix structural fixings (Cementies and Bowties)

Specialist **UK** Restorations

Project Details:

Client:
Liverpool Housing Trust

Materials Manufacturer:
Helifix Limited

For professional support on your project contact:

Specialist **UK** Restorations

Case Studies are available to illustrate our expertise and experience in all of the areas where we provide our Technical Services. These Include:

Structural Repair and Reinforcement Systems

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Concrete Repair and Protection

—●—
Structural Waterproofing

—●—
Façade Cleaning and Maintenance

—●—
Stone Restoration and Conservation

—●—
External Wall Insulation

—●—
Timber Repair and Restoration

—●—
Bird Deterrent Systems

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