



PROTECTAHOME LTD STRUCTURAL SOLUTIONS

Targeting problems with the best solutions

Established 1980

Case Study 088:

HELIFIX REPAIRS: CAERLEON CAMPUS

THE PROBLEM

The Edward Anwyl Building is a nine metre high, three storey structure on The University of Wales Caerleon Campus just north of Newport.

Local Structural Engineers were commissioned by the University to inspect stepped cracking to large panels of brickwork and also to determine the condition and distribution of the existing wall ties.

After an extensive survey it was discovered that no wall ties were present and that the brickwork panels were not tied into the brickwork columns.

THE SOLUTION

To remedy the structural problems, Protectahome were employed to install wall ties to enhance the lateral restraint. As the existing bricks are frogged on both skins, we proposed that Helifix Resities were used. A total of 1625 Resities were installed in the large brickwork panels at 900mm centres horizontally and 450mm centres vertically.

To repair stepped cracking, 6mm Helifix Helibar was bedded into pre cut slots using Helibond grout. Following repointing this now forms a virtually invisible repair.

Stainless steel straps were installed to connect the brickwork panels and columns. Protectahome's trained and highly skilled workforce completed the installation which benefits from a Protectahome long term Guarantee.



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