

Structherm | Cladding
Boundary Farm Road
Halewood

Sector: Social Housing
Low Rise
Refurbishment



Client:
Knowsley Housing Trust

Building Type:
Traditional Brick Wall

Project Size:
15 Properties 930m²

Product:
External Wall Insulation
& Render Finish

Project Background:

Knowsley Housing Trust (KHT) manages over 13,000 homes within the Borough of Knowsley on Merseyside and is going through a programme of upgrading them to Decent Homes Standard.

Client Requirements:

As part of the programme KHT wanted a cost effective solution for externally refurbishing several blocks of flats consisting of 15 properties, and one that would:

- Improve thermal performance and therefore cut fuel bills.
- Reduce CO₂ emissions.
- Improve the external appearance of the blocks.

Design Solution:

Cavity wall insulation was not an option for the client as it would not have improved the thermal performance sufficiently to meet Building Regulations. To resolve this problem and other issues such as damp, condensation and water ingress, a Strucherm External Wall Insulation system was specified.

The system consisted of a layer of high performance, 75mm thick, EPS insulation boards fixed directly back to the brick walls of the properties. The Strucherm "High Build" render system was applied, which was made up of two layers of 3mm basecoat render with glass fibre reinforcing mesh

embedded. To complete the system the client chose a high performance through coloured Acrylic render finish along with timber cladding detailing, to provide a modern and fresh look to the properties.

Results:

- Thermal performance has improved greatly with the U value dropping from 0.53W/m²K to 0.26W/m²K.
- The properties now cost less to heat to a comfortable level and due to less heating being required the CO₂ emissions have also significantly reduced.
- The aesthetic appearance of the properties has greatly improved with the installation of new windows, soffits, fascias and downpipes to totally transform each property.

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