

Structherm | Cladding
Lichfield, Staffordshire

Sector: Social Housing
Low Rise
Refurbishment

Solid Wall Semi Detached Property After Refurbishment



Solid Wall Semi Detached Property
Before Refurbishment



Solid Wall Bungalow After Refurbishment



Client:
Homezone Housing Ltd

Building Type:
Solid Wall Semi Detached &
Bungalows

Project Size:
80 Properties 4400m²

Product:
External Wall Insulation
& Render Finish

Project Background:

Homezone Housing Ltd manages over 5000 homes in the Staffordshire district of Lichfield and is going through a programme of upgrading its stock of 'Hard-to-Treat' Solid Wall properties to bring them up to Decent Homes Standard.

Client Requirements:

As part of the programme Homezone wanted a cost effective solution for externally refurbishing both semi-detached and bungalow properties, and one that would:

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

Design Solution:

As the name suggests Solid Wall properties have no cavity, therefore cavity wall insulation was not an option for the client to improve thermal performance. To resolve this problem and its related issues such as damp, condensation and water ingress, a Structerm External Wall Insulation system was specified.

The system consisted of a layer of high performance, 70mm thick, Enhanced EPS insulation boards fixed directly back to the brick walls of the properties. The Structerm "High Build" render system was applied, which was made up of two layers of 3mm basecoat render with polypropylene reinforcing mesh embedded. To complete the system the client chose a high performance through coloured Acrylic render finish, to provide a modern and fresh look to the properties.

Results:

- Thermal performance has improved greatly with the U value dropping from 1.49W/m²K to 0.34W/m²K. The amount of heat lost through the walls is now minimal.
- 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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