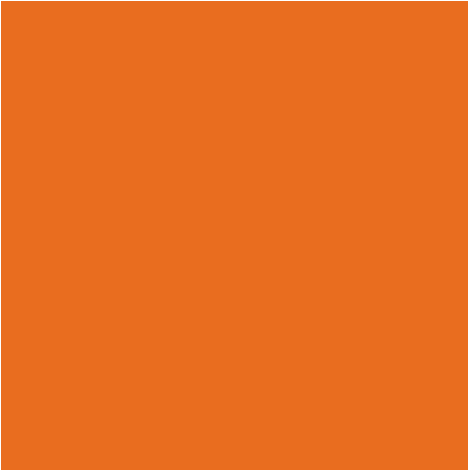


Structherm | Cladding
Lime Walk
Oxford

Sector: Social Housing
Low Rise
Refurbishment



Client:
A2Dominion Group

Building Type:
Solid 9" Brickwork

Project Size:
Pilot Scheme

Product:
External Wall Insulation
& Render Finish

Project Background:

The A2Dominion Group was formed in 2008 when A2 and Dominion housing groups came together as a result of a merger. The group works with 87 local authorities in London and across southern England and manages 34,000 homes.

As part of its commitment to improving housing standards and reducing carbon emissions, A2Dominion is investing in the external refurbishment of its hard to treat solid brick wall properties.

Client Requirements:

A2Dominion wanted to trial an External Wall Insulation (EWI) system on one property before rolling out a full scale programme. The Group wanted a system that was cost effective and one that would:

- Allow residents to remain in their homes during the work
- Improve the thermal performance of solid walls
- Reduce CO₂ emissions and lower residents' fuel consumption
- Improve the external appearance of the houses

Design Solution:

A2Dominion chose to specify a Hanson Structherm External Wall Insulation system. This consisted of a layer of high performance, 60mm thick, Phenolic insulation boards fixed directly back to the brick walls of the property. The Hanson Structherm "High Build" render system was then 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 property.

Results:

- The External Wall Insulation was installed while residents remained in their homes.
- Thermal performance has improved greatly with the U value of the walls dropping from 1.99W/m²K to 0.30W/m²K
- The carbon footprint of the house has reduced as it now requires less fuel to heat it to a comfortable temperature.
- The aesthetic appearance of the property has greatly improved as the refurbishment programme also included new roof, soffits, fascia boards and guttering.

