



Product: Structural External Wall Insulation & Render Finish

## **Project Background:**

Liverpool Mutual Homes (LMH) was formed in 2008 to manage 15,000 homes in Liverpool and has invested heavily over the past 4 years to bring many of its properties up to the Decent Homes Standard. Nearly £300 million will be spent on improving homes and services over the next 5 years and over the next 30 years, almost £900 million will be invested.

As part of the programme LMH recently completed the upgrade of 71 non-traditional Boots properties on Broad Lane and Winskill Road. The properties were severely defective, poorly insulated and in an extremely bad state of disrepair.

## **Client Requirements:**

LMH wanted a cost effective solution for externally refurbishing the houses and one that would:

 Provide structural support and extend the life of these defective properties

• Create a watertight and thermally efficient building envelope

 Improve the external appearance of the houses of which 66 were voids

## **Design Solution:**

Structherm's unique Structural External Wall Insulation system incorporating 80mm thick Enhanced EPS insulation was specified for the external refurbishment of the properties. To complete the system a high performing contemporary acrylic render in white was applied to most elevations. Macerend Brick Effect render was applied for creative detailing to some elevations and around some front door entrances, a pale blue acrylic render was used around some living room windows.

## **Results:**

• The Structural External Wall Insulation has provided the necessary structural support and provides a minimum design life of 30 years.

 $\cdot$  Thermal performance has improved greatly with the U values dropping from 1.55W/m²K to 0.29W/  $m^2 K$ 

• The individual designs have significantly improved the aesthetic appearance of the properties and given them a fresh contemporary look. The refurbishment programme also included new windows, doors, roofs, soffits, fascia boards, guttering and solar PV.







