



Liverpool
Florence Melly Estate,
Liverpool

Sector: Social Housing
Low Rise
Refurbishment

Terraced properties before refurbishment



Terraced properties after
refurbishment



Semi-detached property after
refurbishment

Client:
Liverpool Mutual Homes

Building Type:
Boswell

Project Size:
615 Houses / 49,200m²

Product:
Structural Insulated
Cladding
& 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 615 non-traditional Boswell properties on the Florence Melly Estate. The properties were severely defective, poorly insulated and extremely expensive to heat.

Client Requirements:

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

- Allow residents to remain in their homes during the work
- Create a watertight and thermally efficient building envelope
- Reduce CO₂ emissions and lower residents' fuel consumption
- Improve the external appearance of the houses

Design Solution:

Structherm's unique Structural Insulated Cladding system incorporating 80mm thick Enhanced EPS insulation was specified for the external refurbishment of the properties. To complete the system a Macerend Brick Effect render was applied to the ground floors. The first floors were then finished using a high performing Acrylic render to significantly improve the appearance of the properties.

Results:

- The Structural Insulated Cladding was installed while residents remained in their homes.
- Thermal performance has improved greatly with the U values dropping from 2.29W/m²K to 0.30W/m²K
- The carbon footprint of each house has reduced by virtue of requiring less fuel to heat them to a comfortable temperature. This will have the positive benefit of reducing fuel consumption for residents.
- The aesthetic appearance of the properties has greatly improved as the refurbishment programme also included new windows, doors, roofs, soffits, fascia boards and guttering.



Terraced properties after refurbishment showing Macerend brick effect render to ground floor and quoins. Acrylic render finish in cream to first floor.