



Franklands Drive Area  
Preston

Sector: Social Housing  
Low Rise  
Refurbishment



Before refurbishment

BISF semi-detached property after refurbishment



Render quoin and window detailing



Client:  
Community Gateway  
Association

Building Type:  
Type A1 BISF

Project Size:  
70 Houses

Product:  
Structural Insulated Cladding  
& Render Finish



## Project Background:

Community Gateway Association (CGA) were formed in 2005 to manage 6000 homes in ten local community areas of Preston and the surrounding areas. CGA invested £80 million in the first five years on a home and neighbourhood improvement programme in order to bring every home up to the Decent Homes Standard and now invest £15 million each year to ensure that residents can live in modern, comfortable homes.

CGA recently commenced the upgrade of 70 BISF non-traditional built properties on Franklands Drive and other nearby streets. The properties were severely defective, poorly insulated and extremely expensive to heat.

## Client Requirements:

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

- Allow residents to remain in their homes during the work without stripping the external walls
- Create a watertight and thermally efficient building envelope
- Reduce CO<sub>2</sub> emissions and lower residents' fuel bills
- 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 as it can be installed over the original cladding. To complete the system a Multirend Brick Effect render was applied to the ground floors in Purley Red with Light Grey mortar. The same product was also used for other areas such as quoins and window detailing. The first floors were then finished in either Dash or Acrylic and in a combination of five colour options to significantly improve the appearance of the properties.

## Results:

- The Structural Insulated Cladding was installed while they remained in their homes.
- Thermal performance has improved greatly with the U value dropping from 0.96W/m<sup>2</sup>K to 0.25W/m<sup>2</sup>K.
- The carbon footprint of each house has reduced by virtue of requiring less fuel to heat them to a comfortable temperature. This has also had the positive benefit of reducing fuel bills 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.



BISF semi-detached property after refurbishment showing Multirend brick effect render to ground floor and quoins, and dash finish to first floor.