

Structherm | Cladding
**Palatine House,
Stockport**

Sector: Social Housing
High Rise
Refurbishment



Client:
Stockport Homes

Building Type:
No-Fines High Rise

Project Size:
8 Storey 1472m²

Product:

- Structural Insulated Cladding & Render Finish

Project Background:

Stockport Homes is committed to maintaining and investing in customers' homes and communal areas. They aim to deliver improvements to properties and the environment of estates to meet the aspirations of current and future residents. As part of their Planned Maintenance Programme the trust decided to invest in a major refurbishment programme for Palatine House to bring the flats up to modern standards.

A full structural survey was carried out to determine the condition of the building. It was found to have a structurally sound concrete frame but failing no-fines concrete infill panels. The building also had extremely poor thermal performance resulting in high fuel bills for residents, pushing some into fuel poverty.

Client Requirements:

Stockport Homes wanted to refurbish the block to the highest standards providing comfortable, safe and economical to run homes for its residents. As part of the external works they required a solution that would:

- Solve the structural problems associated with the failing no-fines concrete infill panels
- Improve thermal performance and therefore cut fuel bills
- Improve the external appearance

Design Solution:

Structherm's unique Structural Insulated Cladding system was specified for the external refurbishment of the building as it was able to offer solutions to each of Stockport Homes requirements. The vertical panel spanning method was used to provide a rigid, continuous envelope around the whole building.

To complete the system two contrasting dash receiver and dash aggregate finishes were applied. These were:

- York Sand Dash Receiver with Seville Dash Aggregate
- Portland White Dash Receiver with Calcined Flint Dash Aggregate

These finishes provided the building with an attractive façade that fully met the client's aesthetic expectations.

Results:

- The Structural Insulated Cladding has stabilised all the failing concrete infill panels and anchored back areas of loose material, making the building safe.
- Thermal performance has greatly improved with the U value dropping from 1.69W/m²K to 0.29W/m²K resulting in each flat costing less to heat.
- The fresh, contemporary design of the building along with new high performance thermal windows, has transformed the appearance of the block into a modern and attractive building.

