

**Structherm | Cladding**  
**Whins Of Milton**  
Bannockburn, Stirling

**Sector:** Social Housing  
Low Rise  
Refurbishment



**Client:**  
Stirling Council

**Building type:**  
Orlits

**Project Size:**  
150 Houses

**Product:**  
Structural Cladding & Render

## Background:

These Orlit properties are one of a number of projects that Structherm has been involved in with Stirling Council over the years. Structherm was selected due to the excellent reputation gained through other Local Authorities and the proven experience of working on such projects.

## Project Details:

The refurbishment of these 1950's Orlit properties was part of an ongoing portfolio of a non traditional property upgrade being carried out in the area by Stirling Council. Over time, the houses had become run down and looked out of date.

Reports carried out on the properties prior to refurbishment identified that they were at risk of cracking and movement in the external orlit panels. In addition, the properties achieved an unsatisfactory U-value result of 1.86 W/m<sup>2</sup>k and had inherent problems with the joints and rough cast, which were generally in poor condition.

## Solution:

These issues proved that a 'spanning' system would be required and that an insulated render system would be insufficient. Therefore the only alternative to use was the Structherm Structural cladding due to its' structural & spanning capacity.

All of the properties had existing concrete columns behind the Orlit panels located at 8ft centres. At each of these locations the structural cladding panels were then clipped together at 4ft centres (the size of the panel) sandwiching and securing the Orlit panels all the way through into the column.

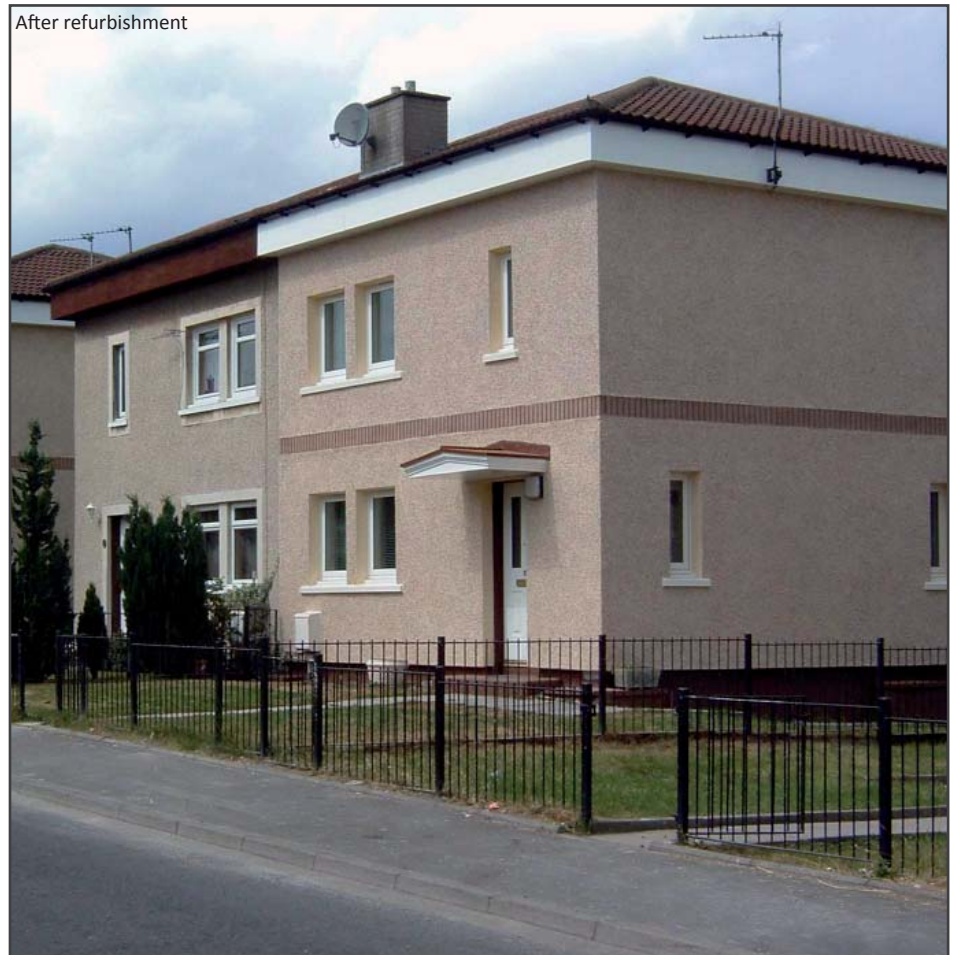
## Challenges:

Despite the project being set over three different sites, Structherm was still able to successfully co-ordinate the manufacture and delivery of materials within a tight schedule of only 8 months.

## Result:

The chosen specification for the houses was for the application of structural cladding panels with a dash receiver finish. Following the completion of the project, the U-values significantly improved to 0.23W/m<sup>2</sup>k. In addition, the properties' lifetime had been significantly extended.

Overall, both the client and tenants were extremely happy with the results. Tenants commented that their heating bills had dramatically reduced whilst the houses were much cooler during the Summer.



For further information on this or other Structherm Cladding projects please contact us on **0800 040 7460** or visit: **www.structherm.co.uk**