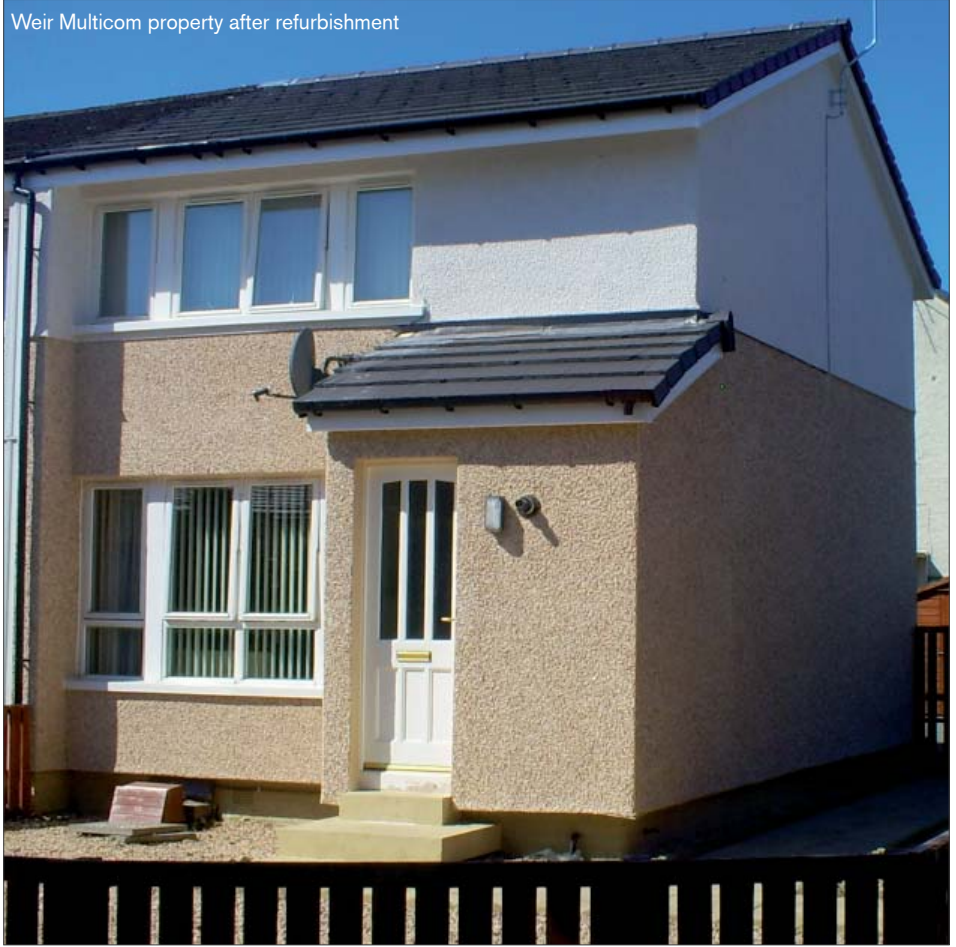


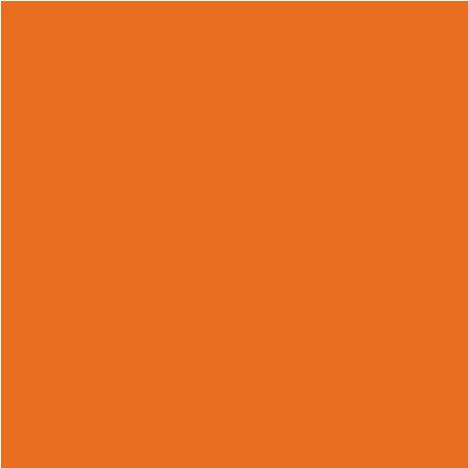
Structherm | Cladding
South Green Drive
Airth, Falkirk

Sector: Social Housing
Low Rise
Refurbishment

Weir Multicom property after refurbishment



Weir Multicom property before refurbishment



Weir Multicom property after refurbishment

Client:
Falkirk Council

Building Type:
Weir Multicom

Project Size:
26 Houses / 1800m²

Product:
Structural Insulated Cladding
& Dash Finish

Project Background:

Falkirk Council recently embarked on a programme to upgrade its stock of various non-traditional built properties. It was decided that a specialist designer / supplier was required to carry out the refurbishments. Structherm was in regular contact with the Architects and Quantity Surveyors and, due to their track record and their unique Structural Insulated Cladding system, were asked to assist in the design for the refurbishment of 26 Weir Multicom type non-traditional properties in Airth.

Weir Multicom properties are of timber frame construction and are susceptible to rotting due to water ingress, they are also very poorly insulated and extremely expensive to heat. Many of the properties had condensation problems and deteriorating unattractive cladding on the façades.

Client Requirements:

The Council 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 105mm thick PIR insulation was chosen for the external refurbishment of the properties as it can be installed over the original walls and cladding without removing any of the original building. To complete the system a two tone dash finish was applied to significantly improve the appearance of the properties..

Results:

- There was no need to temporarily relocate residents as the Structural Insulated Cladding was installed while they remained in their homes.
- Thermal performance has improved greatly with the U value dropping from 4.08W/m²K to 0.22W/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 with the refurbishment programme also including new windows, doors, roofs, soffits, fascia boards and guttering.



Weir Multicom semi-detached properties.
Left: Before Refurbishment
Right: After refurbishment showing traditional two tone dash finish.