

# Case Study...

## Crathie Drive Sustainable New-build Development

### Client

Partick Housing Association.

### Project Location

Crathie Drive, Partick, Glasgow.

### Product Details

Thermafleece – sheep's wool insulation slabs installed in roof and walls.

### Design and Installation Criteria

- Well designed flats for flexible living.
- Low demand for energy with best use made of a south facing site.
- Renewable energy used for remaining energy demand with low fuel bills for residents.
- Healthy environment for residents, good indoor air quality, pleasant outdoor green space.
- Minimum waste in construction and operation (domestic waste).

### Project Outline

4 storey tenement building comprising 8 two bedroom flats built on a brownfield site. Designed to achieve high levels of sustainability, improved quality of life and enhanced local environment.

### Project Details

Walls contained 150mm Thermafleece which helped achieve a U-Value of 0.18Wm<sup>2</sup>K whilst a U-value of 0.12 Wm<sup>2</sup>K was achieved using 300mm Thermafleece in the roof. SAP values varied between each flat with most above 100 and the central flats obtaining a rating of 110. The carbon rating varied between 8.0 and 9.0.

Thermafleece sheep's wool was chosen as one of the insulation components because of its ability to remain dry as humidity levels vary meaning it could help regulate moisture levels and contribute to improved air quality within the building. Thermafleece was also chosen for ease of handling and installation.

The building was clad externally with a combination of facing brick and a rendered board. Each flat had a south facing living room. One top floor flat also had a sunspace which could open up to form a balcony in the summer months.

Because of the high insulation levels in the flats, heat demand was greatly reduced. Heat was also distributed by an underfloor heating system meaning flow temperatures could be kept relatively low, making the system more efficient.

### Benefits

- The use of Thermafleece contributed to achieving all the main design and installation criteria.
- Installation of the Thermafleece insulation was easy and safe.

For further details of the products and support we offer visit our web site [www.thermafleece.com](http://www.thermafleece.com) or call us on **01768 486285**.

