

# 107 Niddrie Road



Project category

Finalist



107 Niddrie Road is a pre-1919 red sandstone tenement building with 8 housing association owned one bedroom flats, designed to EnerPHit retrofit standards.

It has high levels of insulation and airtightness combined with new heating and ventilation systems. These energy efficient measures drastically reduce energy bills for the tenants while providing them with the healthiest possible internal environment.

## Key info

**Project name:** 107 Niddrie Road

**Project location:** Glasgow, Scotland

**Building completion date:** 10/2022

**Building size (sqm):** 440

**Construction cost (approx.):** £1.14 million

**Construction type:** Pre-1919 sandstone tenement retrofit

**Building use:** Residential

## Project team

**Architect/designer:** John Gilbert Architects

**Client:** Southside Housing Association

**Contractor:** CCG

**Consultants:** Design Engineering Workshop, Passivhaus Associates, WARM, Thermal Image UK

**Product manufacturers/suppliers:** Green Building Store, K Systems, Ultimate Insulation, Paul Heat Recovery, Mitsubishi, Vaillant, Recoup, KEIM

## Highlights

Designed to EnerPHit standard, with heating demand reduced to 25.9kWh/m<sup>2</sup>/year, 90% lower than a typical sandstone tenement.

Natural building products specified where possible, eg wood fibre insulation, timber frame windows, lime parge coating and sheep's wool insulation.

70% reduction in CO<sub>2</sub> produced per m<sup>2</sup> (average across the 8 flats).

Housing association owned.

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