



LOCATION: SALFORD



The project

Research undertaken by Leeds Metropolitan University, MIMA (the Mineral Wool Insulation Manufacturers' Trade Association), BRE (Building Research Establishment) and Knauf Insulation has revealed that a significant amount of heat is actually lost through uninsulated cavity party walls.

Although these walls provide fire and acoustic separation to meet the requirements of relevant building regulations, the thermal performance of a party wall had not previously been considered.

Knauf Insulation has provided solid evidence that its Supafil® Party Wall glass mineral wool blowing insulation is a reliable way of eliminating party wall bypass and so One Manchester Housing Association installed the product into 190 houses.

PROPERTY CHARACTERISTICS:

LOW INCOME SEMI-DETACHED OR ATTACHED PROPERTIES

SOCIAL HOUSING

190 PROPERTIES

TECHNOLOGIES USED:

PARTY WALL INSULATION



Specification

Supafil Party Wall prevents heat loss through party separating cavity walls by fully filling the cavity. Supafil Party Wall is an in-situ formed unbonded, non-combustible glass mineral wool.

Houses were tested before and after the installation took place. The reduction in the heat loss was equivalent to an improvement in the effective U-value of the party wall of at least 0.5 W/m²K. This shows there is a significant beneficial impact for tenants in fully filling cavity party walls with Supafil Party Wall Insulation.

Supafil Party Wall insulation fitted into One Manchester's obligation to maintain a greener environment as the product conserves energy and reduces CO₂ emissions. The energy and CO₂ emission saved by the product in use, vastly outweighs those generated in its manufacture.

Supafil Party Wall has a generic BRE Green Guide Rating of A+ and has zero Ozone Depletion Potential and zero Global Warming Potential.

Benefits

Total fuel cost savings of £5,500 per annum attributable to reduced householder fuel bills

£233,000 lifetime fuel cost savings (lifetime = 42 years)

28.6 tonnes of CO₂ abated per annum by insulation works completed during the project

1,200 lifetime tonnes of CO₂ saving expected over the lifetime of the measure

Improved sound proofing between properties, Supafil Party Wall insulation also has good sound absorption characteristics which is designed to protect occupants from noise in adjoining rooms or buildings