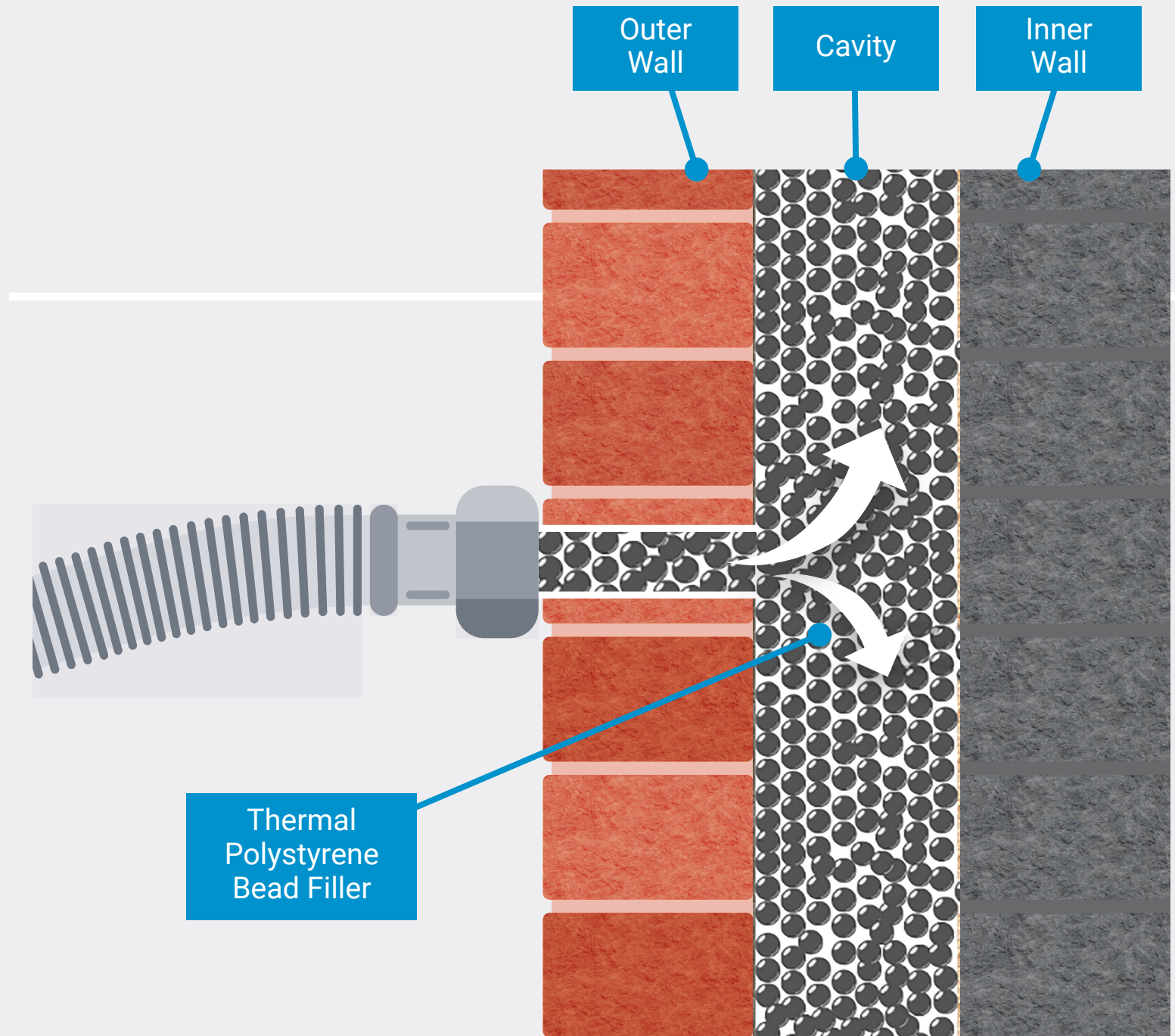




Cavity Wall Insulation

How it works

Cavity wall insulation is where insulation is injected into the cavity between the external wall of the house and the internal wall. Not all homes have a cavity. They are more typical in homes built after 1930. Where homes have unfilled cavities, the air between the inner and outer layers of the wall allows heat to escape the property. By filling this gap with insulating material (we used a thermal polystyrene bead filler), the material forms a barrier to reduce heat lost.



Our experience

We fitted the new windows and doors first so any injected insulation beads wouldn't escape from exposed gaps whilst the sills were removed.

To reduce the chance of moisture entering the cavity, which could lead to internal damp issues, we will monitor the external walls after the retrofit for evidence of damage/cracks which could allow moisture in. We will also keep the external walls in good repair. A 10-year insurance backed guarantee was included with the work.

Benefits

Compared to other measures, this was relatively cost effective and created a much cosier, insulated feeling in the home. It was quick to have installed and minimally invasive, only impacting the external property when used for access and making the drill holes.

Installation

A surveyor first checked by drilling a small hole to insert a camera to confirm the property had an unfilled cavity. They also checked the house wasn't in a position which exposed it to extreme weather conditions (such as regular driving rain). The insulating material was then injected into the walls. This was done via several drill holes, which were then patched back up and painted.

Before and after

Before the retrofit, the walls were the largest source of overall heat loss (**59%** overall). After the retrofit, heat loss from the walls reduced by up to **67%**.