

# Improve building envelope

## DO YOU HAVE?

- Un-insulated roof space?
- Un-insulated wall space?
- Drafts from external doors?
- Single glazed windows?

## The Opportunities

The site surveys show a number of opportunities to improve the energy efficiency of the fabric of Church buildings by installing such things as:

- Wall insulation
- Draft proofing external doors
- Roof insulation
- Secondary glazing

Investigate opportunities to improve your church building envelope as part of any building refurbishment programme.

## Good Practice

Reduce heat being wasted from the building's fabric by installing insulation where possible.

Building maintenance programme should include inspection of current insulation materials to ensure they are fit for purpose and replace when necessary.

## Making it Happen – Wall insulation

- If cavity walls in Church buildings are un-insulated then these areas should be insulated with insulating beads or granules blown into the wall cavity where possible.
- Careful external and internal inspection of the existing structure and its current condition is required to determine the suitability of wall insulation. Remedial work such as re-pointing the brickwork may have to be incorporated.
- Obtain a quote from an experienced and registered installer.

## Making it Happen – Draft proofing

- Reduction of drafts is likely to increase the general comfort of the members of the congregation.
- Installing draught proofing is one of the cheapest and most efficient ways to save energy in any type of building.
- Energy savings could be made if the gaps around the external doors had the following installed: Door edges – Wiper or brush strips; or fit foam. Door bottom - A hinged flap draught excluder or brush



### ***Making it Happen – Roof insulation***

- Up to 25% of heat loss from a building's fabric is lost through the roof and the application of insulation to a roof without insulation can reduce this heat loss by up to 90%.
- Identify roof areas where insulation is suitable or needs replacing.
- Obtain a quote from an experienced and registered installer.



### ***Making it Happen – Secondary or Double Glazing***

- Where possible windows should be double glazed and/or have secondary glazing installed to reduce heat loss.
- Obtain a quote from an experienced and registered installer.



### **Barriers**

Access to wall or roof areas

Ensure that the work is carried out by an experienced and professionally registered contractor

The introduction of secondary glazing to the existing church windows could potentially cause some condensation problems between the two components and the allowance for trickle ventilators within the secondary units are to be considered to overcome this problem.