



COBALT CARBON FREE

# CASE STUDY

## CAROL AND PHIL'S HOUSE



### PROJECT OVERVIEW

Carol and Phil, a retired couple, live in a semi-detached 1970s/80s property with a cat-slide roof and a front-facing dormer that creates their upstairs front bedrooms. They noticed that these rooms, which are partly within the roof space, were draughty, noticeably colder, and difficult to heat, making them uncomfortable.



While visitors may not see the insulation work, Carol and Phil will feel the benefits for years to come. We hope this project brings them lasting comfort and warmth in their newly insulated, cosy rooms.



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## SCOPE OF WORK

The primary goal was to make the front first-floor rooms warmer, reduce draughts, and improve overall comfort. While the cavity brick walls were helpful, they offered limited benefit to these rooms due to their position within the roof space. The lack of insulation in the front roof/loft area and the minimal insulation in the timber-framed dormer were identified as the main issues.

## THE SOLUTION

Improving the insulation in the roof space and around the dormer was key to enhancing the thermal efficiency of these front bedrooms. We used a combination of Kingspan PIR boards at rafter level for the dormer walls and mineral wool to fill gaps around the dormer construction within the roof area. The flat roof, which was previously replaced and met building regulations, required no further work.

## THE CHALLENGE

There were several challenges with this installation:

- As a semi-detached property, we couldn't raise the roof level or increase the depth of the shared dormer wall.
- There was no internal access to the roof space around the dormer.
- Due to Carol and Phil's circumstances, they were unable to tolerate internal work, so the project had to be completed externally.

To address these challenges, we carefully removed the external tiles and dormer cladding to access the under-insulated spaces. This allowed us to install insulation within the roof space and between the dormer studs. Once complete, we refitted the original cladding, added a new roof membrane, and re-laid the tiles.

## CONCLUSION

With the project now complete, the front bedrooms are much easier to heat, retain warmth for longer, and provide Carol and Phil with the comfort they need.

Insulation is an interesting upgrade – unlike a new kitchen or a redecorated room, it often goes unnoticed. While visitors may not see the insulation work, Carol and Phil will feel the benefits for years to come. We hope this project brings them lasting comfort and warmth in their newly insulated, cosy rooms.



For a warmer, more energy-efficient home that's healthier, quieter, and kinder to the environment, insulation is a smart investment. Contact Cobalt Carbon Free today to find out how we can help transform your home with our high-quality, eco-friendly solutions!

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