

Concerning the conversion of a vacant hotel into 17 apartments

The Grove Hotel Buxton

1 Introduction

- 1.1 This statement concerns the proposal to change a detail for insulating the existing external walls of the Grove Hotel.
- 1.2 The original detail was agreed under LBC approval ref HPK/2022/0377 And the subsequent discharge of conditions attached to this approval ref HPK/2024/0299
- 1.3 This statement should be read in conjunction with detail drawing C808

2 Proposed works

- 2.1 It is proposed to upgrade the thermal performance of the building as part of its conversion by adding insulation to the uninsulated solid existing external walls.
- 2.2 Historic England recommend two alternative ways of installing insulation in this scenario:
 - 1 to apply insulation direct to the inner face of the external walls and then coat the insulation with Lyme plaster and the other is to have
 - 2 to build a separate stud wall containing the insulation and finished with plasterboard and skim with a small cavity separating the new wall from the existing
- 2.3 It is proposed to use the second of the two options outlined above as illustrated below:

The Grove Hotel, Buxton

External wall insulation detail

As recommended in the HE's Guide to insulating solid walls

This detail has been adopted as the new construction is kept away from the existing structure with no fixings into the existing stonework to minimise the impact on the existing structure



Energy Efficiency and Historic Buildings

Insulating Solid Walls

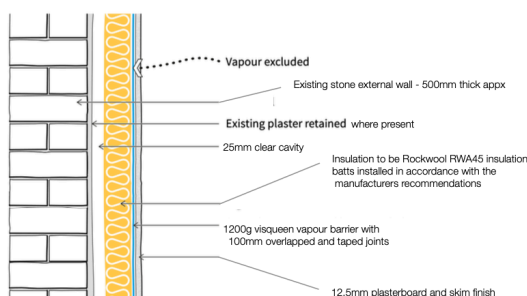


Figure 8 (top): Solid wall - Internal insulation with cavity

The insulation here is kept entirely separate from the external wall by means of a cavity. If impermeable insulation is used then a vapour control layer would still be recommended as the air movement within the cavity might be quite minimal. With this arrangement the benefits of the wall's thermal mass are lost.

QM67-the gr

Drawing no: **C808**
Drawing title: insulation of existing external walls
Scale: NTS



3 Assessment

- 3.1 This method means that the existing walls are untouched by the new construction works and therefore are not damaged or affected and remain unaltered
- 3.2 With this method there is no significant harm caused to the heritage asset