

## **VENTILATION STATEMENT**

### **Proposed redevelopment to form twenty seven new homes and associated external works at Carn Thomas, Telegraph Road, St. Mary's, Isles of Scilly**

The new homes are proposed to be built involving a high level of insulation and air tightness. Details of the energy strategy can be found within SDS Solutions LZC Report.

As part of the low carbon strategy, the dwellings are proposed to target an air tightness of less than  $3\text{m}^3/\text{m}^2/\text{hr}@ 50\text{PA}$ .

Therefore, it is proposed that the dwellings will be fitted with a mechanical ventilation with heat recovery system (MVHR) to provide healthy fresh air and maximise heat recovery from expulsion of internal moist air, meeting Part F of the Building Regulations.

The MVHR ventilation system is anticipated to discharge externally via a supply and extract ducts (2 ducts per property) each of approximately 160mm diameter. The two external ducts (providing supply and exhaust air) will be finished beneath a weathered cowl appropriate for the site's exposure rating and coastal location using a low maintenance material. In order to not detract from the appearance and street scene, ventilation cowls wherever possible will be located on rear (southern) elevations, away from Telegraph Road.