

Biodiversity Enhancement Statement **09.05.2025**

Roof Replacement

Proposed development: *'Removal of a pitched and glazed sun room roof and erection of a flat roof with horizontal roof lights. This application is in CIL zone 4 (zero rated).'*

Location: 20 Sea Lane Ferring BN12 5DS

- 1.1 The replacement of a glazed roof reduces the quantity of light pollution in the area. The quantity of light pollution will be reduced by the proposal. A reduction in light pollution will help maintain balance between predatory and prey animals as light pollution is known to affect this in the immediate vicinity.
 - 1.2 The reduction in reflective glazing will minimize the quantity of bat collisions as bats can perceive smooth, vertical surfaces like glass as clear flight paths, leading to collisions, particularly with buildings featuring large glass facades. These surfaces act as acoustic mirrors, reflecting echolocation calls away from the bat until a collision occurs. This can be particularly dangerous for bats, as they rely on echolocation for navigation and obstacle avoidance.
 - 1.3 The existing structure contains a less desirable roof connection detail between the sun room and original home. This junction contains a tight space that may trap animals if they were to enter. The proposed structure has a simple junction detail with no risk of this.
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Thank you for considering this proposal.

Best regards,

Samuel Gledhill ARB

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