



ECOLOGY TECHNICAL NOTE

PROJECT	Land off Burn Road, Birchencliffe
PLANNING REF.	2024/61/90255/W & 2019/60/94051/W
SUBJECT	BAT & BIRD BOX SCHEME
DATE	22 April 2024
AUTHOR	Ryan Knight BSc (Hons) MCIEEM
ISSUED TO	Marsden Contracting, Zerum, Heneghan Architecture

INTRODUCTION

Knight Sky Ecology was commissioned to provide ecological consultancy services in relation to a housing development located off Burn Road, Huddersfield, HD3 3BT. The development received outline planning permission on 9th February 2021.

The production of the bat and bird box scheme is required in relation to reserved matters application no. 2024/61/90255/W and recommendations made within the relevant ecological documents submitted to the outline application (application no. 2019/60/94051/W).

BAT BOXES

Details of the **6 bat boxes** to be installed at the site are provided in Table 1.1.

Table 1.1. Bat box models and siting advice

BAT BOXES	
Location and Positioning	Six boxes are to be integrated into the gable walls of six dwellings (as they are being built). The boxes are to be positioned under roof the verge towards the corner of the gable. The locations have been chosen to maximise potential occupancy as they are away from external lighting or other disturbance factors and located adjacent to woodland.
Illustration of Location	Box positions indicated by red dots.



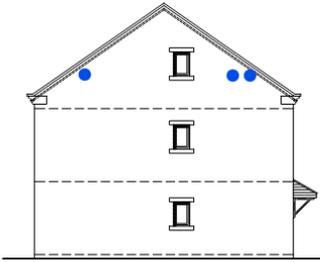
	<p style="text-align: center;">Side Elevation</p>						
<p>Bat Box Models</p>	<p>Bat box models along with the locations for purchasing are provided below. There can be a considerable waiting time for delivery for certain models, therefore, two options have been provided.</p> <table border="1"> <tr> <td> <p>Vivara Pro Build-in WoodStone Bat Box</p> </td> <td> </td> <td> <p>The Build-in WoodStone Bat Box has been specifically designed to fit into the cavity of walls, with the entrance sitting flush with the outside bricks. It has been redesigned to match the standard brick size in the UK. Manufactured from hard-wearing woodstone and plywood with removable wooden side panels so that several boxes can be placed side by side to create one large chamber.</p> <p>Available from https://www.nhbs.com/</p> </td> </tr> <tr> <td> <p>Vivara Pro Build-in Woodstone Bat Tube</p> </td> <td> </td> <td> <p>Designed to be built in to the masonry of external walls or beneath a rendered surface. It is designed to provide the maximum internal space across two cavities, allowing space for larger groups. Manufactured from hard-wearing woodstone and plywood with removable wooden side panels.</p> <p>Available from https://www.nhbs.com/</p> </td> </tr> </table>	<p>Vivara Pro Build-in WoodStone Bat Box</p>		<p>The Build-in WoodStone Bat Box has been specifically designed to fit into the cavity of walls, with the entrance sitting flush with the outside bricks. It has been redesigned to match the standard brick size in the UK. Manufactured from hard-wearing woodstone and plywood with removable wooden side panels so that several boxes can be placed side by side to create one large chamber.</p> <p>Available from https://www.nhbs.com/</p>	<p>Vivara Pro Build-in Woodstone Bat Tube</p>		<p>Designed to be built in to the masonry of external walls or beneath a rendered surface. It is designed to provide the maximum internal space across two cavities, allowing space for larger groups. Manufactured from hard-wearing woodstone and plywood with removable wooden side panels.</p> <p>Available from https://www.nhbs.com/</p>
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<p>Maintenance</p>	<p>The models chosen do not require cleaning as bat droppings do not typically accumulate within these types of boxes to a level likely to cause problems for future habitation.</p>						



BIRD BOXES

Details of the **6 bird boxes** to be installed at the site are provided in Table 1.2.

Table 1.2. Bird box models and siting advice

Bird Boxes	
General	<p>Swift boxes</p> <p>The height and aspect of the Type C dwellings does present a potential suitable nesting site for red-listed common swift. The prevalence of swifts in the area is not known. Swifts remain loyal to nest sites and return to the same sites every year. Therefore, the uptake of any new boxes may / may not be successful. Nonetheless, swift boxes can be used by small birds including the red-listed house sparrow. Therefore, it is recommended to install 3 swift boxes under the roof verge of one dwelling. The boxes need to be placed at least 4.5m above the ground.</p> <p>General boxes</p> <p>Three boxes are to be fixed onto the walls of the garages. The boxes will be positioned at least 2.5m in height. The boxes will be sited to ensure birds will have a clear flight path to the nest entrance.</p>
Locations	<p>Swift boxes (Type C) (east aspect).</p>  <p>Side Elevation</p> <p>Location of 3no. swift boxes (Type C houses) and 3no. general bird boxes (garages)</p> 
Numbers and Models	<p>The following models will be used:</p>



	<p>3no. RSPB Swift Nest Box</p>		<p>The type of timber used for this nest box is 2cm thick pine wood, containing a high proportion of natural resins which help to protect the wood. This thickness is important both for longevity of the nest box, and to offer added insulation for nesting Swifts.</p> <p>Available from: https://shopping.rspb.org.uk</p>
	<p>3no. Vivara Pro Seville 32mm WoodStone Nest Box</p>		<p>These nestboxes are manufactured from WoodStone which is a mix of concrete and FSC certified wood fibres and are guaranteed for 10 years.</p> <p>Available from https://www.nhbs.com/</p>
<p>In the event that a certain bird box model is unavailable for purchase, a suitable like for like replacement will be sourced.</p>			
<p>Maintenance</p>	<p>Where required, cleaning of the boxes should be undertaken from <u>October to January, outside of the nesting bird season (March to August inclusive)</u>. Rubber gloves must be worn. The old nesting material which accumulates after every breeding season and the droppings from earlier in the season should be removed along with any egg shells or unhatched eggs.</p> <p>Swift boxes should not require cleaning.</p>		

FURTHER REQUIREMENTS

An Ecological Clerk of Works is to advise on the placement of the above listed boxes during the construction works. Photos of the installed boxes are recommended to provide the council with confirmation of compliance with the specifications.

MONITORING AND MANAGEMENT

No strict monitoring or ecological supervision is required in relation to the installation or management of the boxes. The chosen boxes have a relatively long lifespan and do not need maintenance (aside from cleaning of bird boxes where required).