Lighting Strategy

Trueloves Field, Marches Road, Kingsfold

Introduction

This Lighting Strategy has been prepared in support of a discharge of condition application relating to the erection of a stable building, sand school and change of use of land for private equine use via planning permission DC/24/1179 at Trueloves Field, Marches Road, Kingsfold, West Sussex.

Condition 5 attached to the permission states:

Pre-Occupation Condition: No part of the development hereby permitted shall be occupied until a lighting design scheme for biodiversity based on Guidance Note: 08/23 (Institute of Lighting Professionals) has been submitted to and approved in writing by the local planning authority. The scheme shall identify those features on site that are particularly sensitive for bats and that are likely to cause disturbance along important routes used for foraging; and show how and where external lighting will be installed (through the provision of appropriate lighting contour plans and technical specifications) so that it can be clearly demonstrated that areas to be lit will not disturb or prevent bats using their territory.

All external lighting shall be installed in accordance with the specifications and locations set out in the scheme and maintained thereafter in accordance with the scheme. Under no circumstances should any other external lighting be installed without prior consent from the local planning authority.

Reason: To allow the LPA to discharge its duties under the Conservation of Habitats and Species Regulations 2017 (as amended), the Wildlife & Countryside Act 1981 as amended and s40 of the NERC Act 2006 (as amended) and Policy 31 of the Horsham Development Framework.

This Strategy has been informed by the Bat Conservation Trust's Guidelines, which promotes the following measures to reduce the impact of lighting on nearby habitats:

- Avoid lighting on key habitats and features altogether
- Apply mitigation methods to reduce lighting to agreed limits in other sensitive locations
- Demonstrate compliance with illuminance limits and buffers

Proposed Lighting

The applicants propose to introduce the following lighting onto the site:

- 2 lights on wooden fencing either side of the front gates which allows entry into the parking area
- 2 lights within the parking area
- 9 lights on the outside of the stables under the overhang
- 1 security light above the hay store at the end of the stable block

Leto Downlight fixtures are proposed for way-finding and security purposes as the site currently has no existing lighting installed and which provides both a security and safety risk to the applicant.

The proposed lighting is the minimum necessary to ensure the safety of the applicant and horses when moving around the yard during evening hours. The majority of lights (9 out of 14) will be under the canopy of the stable block.

The proposed stables are for private use, meaning the lighting will be controlled by a single household. Unlike a commercial yard with frequent visitors.

The lighting will be used less frequently, if at all, during summer months when bats are more active. The lighting will be mostly in use during winter months when bats are likely to be hibernating or preparing to hibernate.

The approved stable building will be constructed 15 meters from the small area of trees to the north, facing outwards towards the large open field. No lighting is planned for the rear side of the stable, which faces the trees, ensuring that no illumination (zero lux) will reach the tree line.

Lighting Detail

The lighting under the canopy of the stable roof will be turned on and off by switch for practical purposes, however this is considered to be acceptable given the presence of the roof overhang which helps limits light glow to the undercover walkways. The fixture on the southern elevation of the stables, outside of the roof canopy, will be motion censored with short (1 minute) timers. These lights can also be turned off by switch after the applicants leave the yard to ensure that sensors are not triggered by moving wildlife.

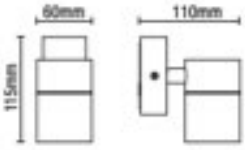
Only LED bulbs be used in the light fixtures. LED bulbs benefit from sharp cut-off, lower intensity, good colour rendition and dimming capability. Bulbs will have a warm white appearance (2700 Kelvin).

The fixtures will be mounted on the timber weatherboarding attached to the stables and will direct all light downwards, with an upward light ratio of 0%. There will be no vertical tilt and no directional lighting, therefore no added lighting accessories will be required. The lighting proposed in the stable entrance will be erected on the existing posts either side of the gate.

Please find enclosed specification and Lighting Plan.

IP44





- Stainless steel [301] construction
- Part of a full range of exterior fittings including, wall, ceiling, ground or spike
- 5 colour options

LETO
Downlight

Class I | 0.4kg | Available in 5 colour options

Code	Description	Finish	Lamp	Dimensions
ZN-37940-BLK	Leto Downlight	Black	1 x 7W max LED GU10	H:115mm W:60mm Proj:110mm
ZN-37940-SST		Stainless Steel		
ZN-37940-ANTH		Anthracite		
ZN-37940-WHT		White		
ZN-37940-COP		Copper		

IP44



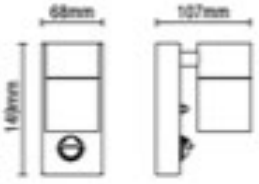








- Stainless steel [301] construction
- Part of a full range of exterior fittings including, wall, ceiling, ground or spike
- 5 colour options
- Multi-function PIR



LETO

Downlight with PIR Sensor

Class I | PIR Sensor | IC | 0.5kg | Available in 5 colour options

Code	Description	Finish	Lamp	Dimensions
ZN-37938-BLK	Leto Downlight	Black	1 x 7W max LED GU10	H:149mm W:68mm Proj:107mm
ZN-37938-SST		Stainless Steel		
ZN-37938-ANTH		Anthracite		
ZN-37938-WHT		White		
ZN-37938-COP		Copper		