

# Bat Boxes

## Objective

To provide roosting sites for bats by installing bat boxes (3 boxes per location).

## Background

There are nine species of bat established in Ireland and all are protected under both Irish and EU legislation (Wildlife Act and Habitats Directive respectively). Bats are protected because of the important ecological services they provide and their role as indicators of the health of an ecosystem. A single bat can consume up to 3,000 insects per night as well as pollinate plants and disperse seeds. While bats are common in our nocturnal landscapes, they are threatened by insensitive developments, night lighting and habitat loss. Old traditional farm buildings with nooks, crannies and gaps in the roof slates can be used by bats. The installation of bat boxes provides bats with a location for roosting in areas where appropriate roost sites may not be present.

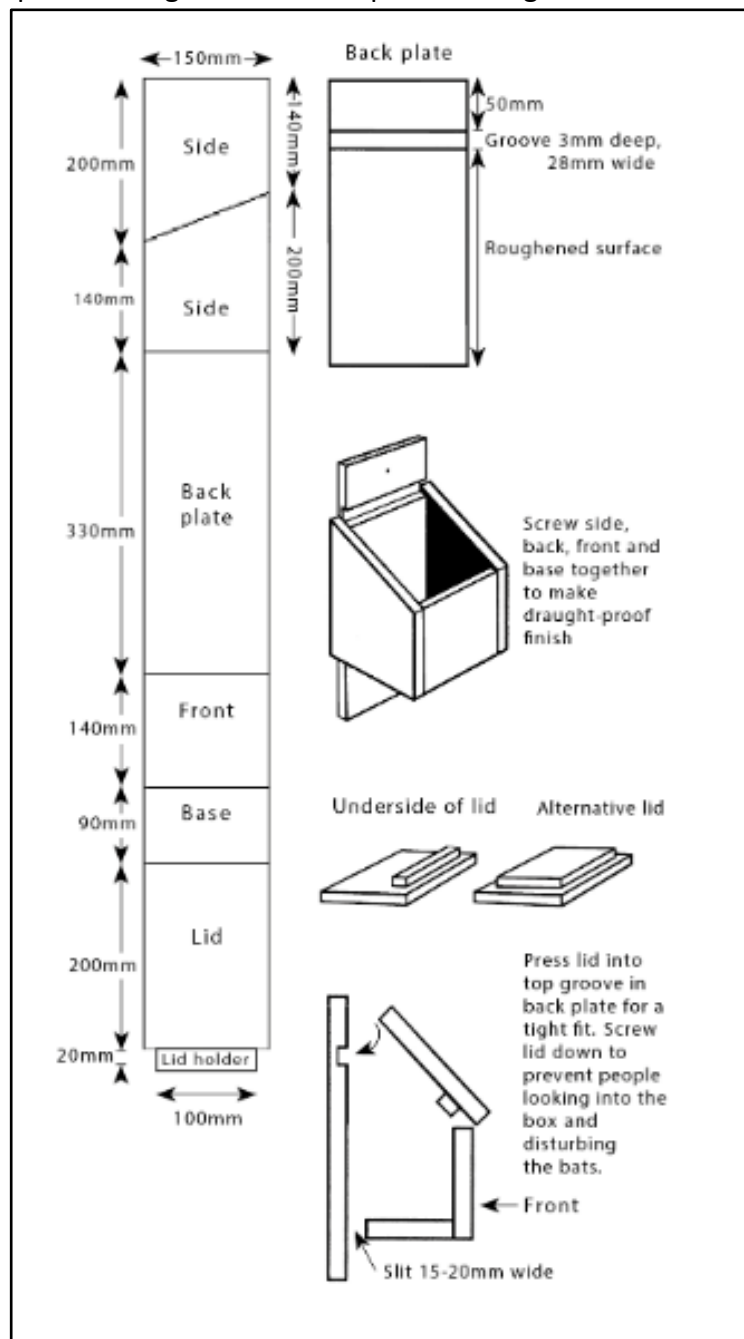
## Site Suitability

- This action can be selected on parcels with an Eligible hectare  $\geq 0$
- This action is available on CP and Non-CP LPIS parcels that will be claimed by the participant for the remainder of the ACRES contract.
- On CP Parcels, this action can be selected on fields with any scorecards assigned or submitted.
- Boxes should be located near areas where they feed, around woodlands, hedgerows, treelines and farm buildings **however bat boxes should not be erected in conifer plantations.**
- **Bat boxes should not be located within 250m of a wind turbine.**
- **Bat boxes should not be located along or within 30m of major roads, such as motorways and busy national or regional roads, and near street lighting.**
- **Each group of 3 boxes should be placed a minimum of 10m apart.**
- Where Bat Boxes are installed in the same parcel/farmyard as Barn Owl Nest Boxes, they **should not be facing each other to reduce the risk of predation. Bat boxes should not be placed in the same building as Barn Owl/Kestrel nest boxes.**
- If installing externally on farm buildings, install close to the eaves of the building, on a south-facing wall and if possible close to a hedgerow or treeline. Locations should be 6m clear of obstacles such as branches.
- Although boxes might be attached to suitable large trees commonly found at some types of archaeological monuments (e.g. ringforts), they should never be attached to the fabric of the monuments themselves, particularly monuments which are masonry structures (e.g. castles, churches etc).

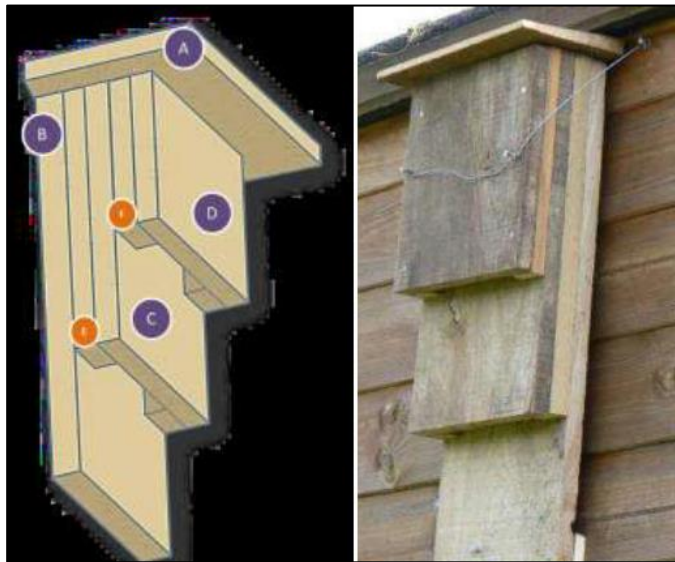
## Requirements

1. Install new bat boxes in groups of at least three bat boxes per tree or building. The boxes in each location must face different directions. New bat boxes can be applied for annually up to the maximum. Each 3 boxes applied for is only eligible for NPI payment once and once claimed must be maintained in the same position for the remainder of the ACRES contract.

2. The location(s) of the bat boxes must be clearly marked on the map submitted. Each point drawn on the GLAM map represents 3 Bat Boxes.
3. Boxes must be installed at least 3m above ground level.
4. Bat boxes can be purchased through retailers or can be made. Box plans can be downloaded from appropriate CP websites. See design measurements and specifications in Figure 1. and 2 below. **Note 1:** this is a minimum specification, the use of higher standard materials e.g. woodcrete is permitted. If you are making your own boxes use, untreated, unpainted timber (such as Duraply). The finished product must be well constructed and draught free.
5. Repair or replace damaged boxes as required throughout the remainder of the contract.



**Figure 1.** Example of bat box dimensions  
**Source:** Royal Society for the Protection of Birds



| Part                  | Quantity | Size (mm)      |
|-----------------------|----------|----------------|
| Roof (A)              | 1        | 250 x 160 x 20 |
| Back (B)              | 1        | 450 x 200 x 20 |
| Centre (C)            | 1        | 330 x 200 x 20 |
| Front (D)             | 1        | 210 x 200 x 20 |
| Centre Rails (E)      | 2        | 330 x 20 x 20  |
| Front Rails (F)       | 2        | 210 x 15 x 15  |
| Stand-offs (optional) | 2        | 200 x 20 x 20  |

**Figure 2.** Example of Kent bat box dimensions. The only critical measurement is the width of the crevices for bats emerging/re-entering, which should be between 15 – 20mm. Other measurements are approximate. Timber should be approximately 20mm thick.

**Source:** Bat Conservation Ireland. Bats and Bat Boxes. Guidance Notes for Agri-environmental Schemes.

#### Additional Guidance

- Do not place boxes near artificial lighting that are not dark sky friendly. If lighting is nearby, it should be max power 150W or LED equivalent, be on a sensor/timer and have a hood to only shine the light downward. See [www.mayodarkskypark.ie](http://www.mayodarkskypark.ie) for additional information.
- If installing on a mature tree, select a height above 3m where there are no branches for a 1-meter radius around and install 3 boxes facing different aspects.
- If installing within farm buildings, ensure there is a constant opening and that it is present in a dark shed where there is no constant, artificial light source.
- Once the boxes are installed, they should not be opened again. Observing the boxes at dusk will give an indication if the box is occupied. <http://www.batconservationireland.org/>
- Bat Conservation Ireland has a [guide to using bat boxes on the farm](#) as part of agri-environmental schemes.
- A video on the importance of buildings for supporting wildlife can be found on [BirdWatch Ireland](#).
- The design measurements and specifications above were obtained from the Royal Society for the Protection of Birds (RSPB) [“Build a bat box”](#) initiative.
- If you are in an area where Lesser Horseshoe bats are known to occur, please contact the local CP team.