

Barn Owl nestboxes for inside buildings

barnowltrust.org.uk/barn-owl-nestbox/barn-owl-nestboxes/

Find out why indoor Barn Owl nestboxes are the best option.

Do you have a suitable building?

Ideal buildings for Barn Owl nestboxes are:

- At least 4 metres high.
- With an opening or hole at least 3 metres above ground level which overlooks open countryside.
- Where the nestbox can be positioned 3+ metres above the ground.
- Where the nestbox access hole is visible to an owl from the most likely entrance point.
- Ideally within 1 km of areas or strips of [rough grassland](#).



It's worth bearing in mind that:

- It doesn't matter what the building is made of, or used for, and its position in relation to your house makes no difference.
- Barn Owls can learn to tolerate noise and activity as long as they have something to hide in – such as a nestbox.
- When choosing the building and the owl box position, remember that Barn Owls are interested in *openings and holes* rather than buildings or boxes. The way in needs to be visible. See our photo gallery [suitable positions for Barn Owl nestboxes in buildings](#).
- See a photo gallery of [openings and holes that are attractive to Barn Owls](#).

Is your landscape suitable?

- Barn Owl nestboxes in the UK should be placed *inside* rural buildings that overlook open habitat
- Avoid urban, suburban, dense forest and high mountain areas.
- Sites within 1 km of a motorway or other fast, unscreened, main roads should be avoided due to [the risk of road-deaths](#).
- Nestboxes do not need to be placed directly on patches or strips of [rough grassland](#) as the birds are perfectly capable of 'commuting' across unsuitable habitats before starting to hunt and have very large [home ranges](#).
- [Check to see if your local landscape is suitable](#).



How to build indoor Barn Owl nestboxes:

- [Dimensions](#).
- [Materials to use](#).
- [Construction and plans for Barn Owl nestboxes](#).
- [How to put up Barn Owl boxes](#).
- [Human access and cleaning out](#).
- [Your safety](#).
- [Nest box criteria](#) for assessing other plans or designs for interior Barn Owl boxes. Poor design can be fatal.

Or you can simply [buy a Barn Owl Trust nestbox for inside a building](#).

Dimensions

The dimensions given on the owl box diagram below are the **minimum** required size.

An ideal nesting box would be much bigger: a full 1 metre from the bottom of the entrance hole to the bottom of the box and with a floor area of at least 1 metre x 1 metre. However, owl boxes that big would be very difficult to erect and more expensive.

Materials to use

The basic box should be built using 9mm [FSC approved](#) plywood and 50 x 25mm batten. Softwood ply (usually Scandinavian or Canadian) is perfectly adequate, cheaper, and better for the environment than hardwood. We use 30, 40 and 50mm screws but nailing and/or gluing is perfectly acceptable. Have a look at our photo instructions showing [indoor Barn Owl nestbox construction](#).

How to build a Barn Owl nestbox

Barn Owl nest box plan to print: *(Printable nestbox design free for personal or educational use only)*

- Our deep nestbox design is very safe for owlets due to a 460mm drop from the entrance hole to the bottom and an exercise platform with a raised edge.
- If you wish to vary from this owl box diagram, please check our essential [criteria](#) for interior Barn Owl boxes.

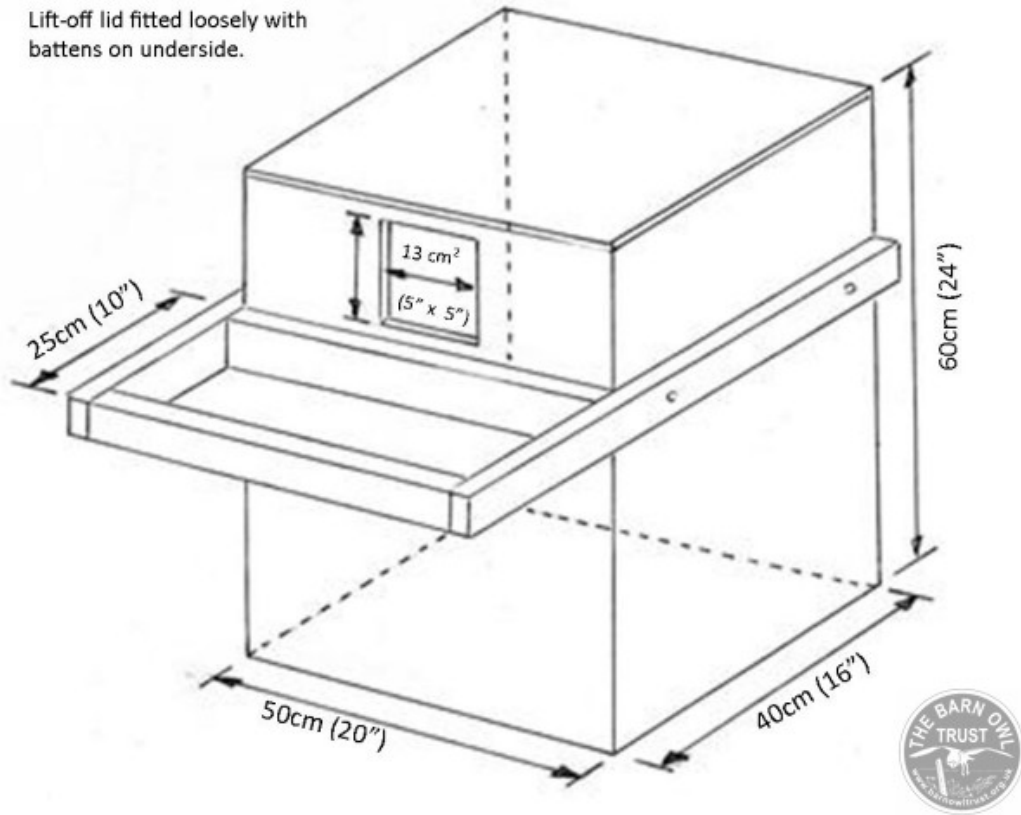


Most old barns are good places for nestboxes – without one only 48% have a nesting place



Modern barns are very often perfect for nestboxes but without one, 97% are unsuitable for Barn Owls

Lift-off lid fitted loosely with battens on underside.



How to erect a Barn Owl nestbox in a building



Have a look at our photo gallery showing the 5 possible methods to use when [erecting indoor Barn Owl nestboxes](#).

Human access and cleaning out

The owl box lid lifts off to enable nest debris to be cleared out periodically. Alternatively, an access panel can be incorporated into one of the sides.

- Maintaining the internal depth of the nesting box reduces the chances of a nestling [Barn Owl falling from the box](#) and dying as a result of neglect or predation. Therefore it's important to clear it out if there's more than about 75mm of nest debris.

- If Jackdaws use the box it must be cleaned out every year (wear gloves and a dust mask).
- Boxes only used by Barn Owls and/or doves will need clearing out every 2 or 3 years at most (unless the owls have very large broods of young or breed more than once a year in which case they should be cleaned out every 1 or 2 years).
- It's usually best to clean out nestboxes between November and January so as not to disturb breeding Barn Owls (which is illegal – see [Barn Owls and the law](#)).

Your safety

The most important thing when erecting the box is your own safety (for which you are responsible).

- Before erecting a box, please ensure that you have properly assessed the risks involved, particularly with regard to working at height.
- A nestbox is quite heavy to lift single-handed and using ladders is potentially dangerous.
- Please do not work alone and consider using two ladders or safer methods.

What is a good nestbox design? – List of criteria for indoor Barn Owl boxes

These are the essential requirements for Barn Owl nest box plans:

- **Entrance hole:** Optimum size 130 x 130mm; minimum 100 x 100mm; maximum 150 x 150mm.
- **Floor area** of nest chamber: Good size range 0.2 to 0.4 m². Absolute minimum 0.16m².
Note: The ideal floor area size for Barn Owls is 1m² but such big boxes are generally impractical.
The floor of the box featured on this page measures 500 x 400mm giving a floor area of 0.2 m².
- **Depth** from bottom of entrance hole to nest floor must be not less than 460mm.
Note: the ideal depth for Barn Owls is 1m but such big boxes are generally impractical.
- For [American Barn Owls](#) all minimum dimensions except the entrance hole should be increased by 50%.
- For any Barn Owl nestbox less than 540mm deep, an **exercise/landing platform** below the entrance hole is vital for the safety of young fledglings. Climbing/jumping young birds can get from the platform onto the roof of the box and (ideally) onto other nearby perching places.
 - The platform must have a generous raised edge suitable for Barn Owls to grip easily.
- **Human access** for easy clearing-out of nest debris is essential.
- Measures aimed at reducing the chances of entry by other species (such as Jackdaws) are to be encouraged provided that they do not significantly reduce the box's suitability for Barn Owls. In mainland Europe, measures to exclude Beech Martens are an important consideration.
- **Weight:** Should be substantially constructed yet light enough to permit safe erection using basic equipment. Normal indoor-box weight range is 10-15 kg. Total weight for erection by hand should not exceed 18 kg and an indoor-box under 8 kg is probably not substantial enough.
- **Materials:** Should not be constructed from tropical hardwood unless the timber is certified as sustainably grown.

- **Essential information:**

Information supplied with this type of nestbox should specify:

- An erection height of not less than 3m above ground level,
 - A position where the box will be completely dry for many years,
 - How to maximise the chances of occupation (entrance hole visibility for birds flying into the building and building entrance visibility to birds flying outside),
 - The need for clearing out debris so as to maintain internal depth,
 - Box erection and attachment methods, human safety issues.
 - Landscape requirements.
 - Barn Owl nestboxes should generally not be within 1 km of any motorway, dual-carriageway or similar unscreened major road.
- [Avoid poor nestbox design](#) – which can kill owlets.

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