

# Ecological factsheet

Smaller temporary summer roost (<10 animals) and mating roost:

VMT1 Temporary bat box

VMT1a Temporary bat box

VMTH1 Temporary bat box (woodcrete)

VMTH1a Temporary bat box (woodcrete)

Larger temporary summer roost (>10 animals) and mating roost:

VMT2 Temporary bat box

VMT2a Temporary bat box

## General information

### Occupancy rate

In a study into the occupancy rate of VMT1 boxes, roosting bats were found in 6 of the 88 boxes, resulting in an occupancy rate of 6.8% (Faunaprojecten, 2020). In reality, however, the percentage of occupied boxes may be higher, because it is more difficult to determine occupancy in the VMT1 on the basis of droppings. This is because the VMT1 has an open underside. The expectation is that the occupancy of temporary boxes is similar to the occupancy rate of other externally mounted boxes, such as those from the VMPPM series.

## Formal requirements for provisions

Various institutes set requirements for bat roosts. For which functions/species/types of roosts do the temporary bat boxes meet these requirements?

### Knowledge Document requirements

Only a Knowledge Document with roost dimensions is available for the common pipistrelle. The following requirements apply; see also p. 67 of the latest Common Pipistrelle Knowledge Document (Bij12, 2024):

Roost/nesting site type	Internal dimension requirements for permanent provision	Complies
Summer roost or mating roost	15 cm wide, 30 cm high   depth 1.5 to 2 cm   access slot 2 cm	Yes
Maternity roost	Bespoke   depth 2.5 cm   access slot 2.5 cm high	No
Mass hibernation roost	Bespoke   depth 2.5 cm   access slot 2.5 cm high	No

## NKNB requirements

Species	Roost/nesting site	Internal dimension requirements	Complies
Common and Nathusius' pipistrelle	Summer/mating and limited hibernation roost	Surface area: min. 0.35 m <sup>2</sup> Depth: 17-30 mm Access slot: 17-20 mm high, 50-100 mm wide	Yes*
	Maternity roost	Surface area: min. 2.5 m <sup>2</sup> Depth: 17-30 mm Access slot: 17-20 mm high, 50-100 mm wide	No
Brown long-eared bat	Summer and mating roost	Surface area: min. 0.22 m <sup>2</sup> Depth: - Access slot: 17-20 mm high, 50-100 mm wide	Yes*
Serotine	Summer roost	Surface area: min. 2.5 m <sup>2</sup> Depth: 25-30 mm Access slot: 20-30 mm high, 50-100 mm wide	No

\*Only the VMT2 and VMT2a meet the requirements. The other temporary boxes do not meet the minimum surface area.

## Expected effectiveness

### Definition used here

The expected effectiveness is determined on the basis of anecdotal evidence.

### Expected effectiveness by function

Species	Roost/nesting site	Functionality	Status
Common pipistrelle	Summer roost and mating roost	++	Very frequently anecdotally proven
Nathusius' pipistrelle	Summer roost and mating roost	++	Anecdotally proven

In addition to anecdotal evidence, visual material is also available of temporary bat boxes occupied by bats (see next page).

## Visual material

Video of a maternity colony of at least 24 bats in VMT2: [https://www.linkedin.com/posts/habitus-natuur-%26-landschap\\_vorige-week-hebben-we-het-vleermuisseizoen-activity-7254416928885063681-Sr1z/?utm\\_source=share&utm\\_medium=member\\_android](https://www.linkedin.com/posts/habitus-natuur-%26-landschap_vorige-week-hebben-we-het-vleermuisseizoen-activity-7254416928885063681-Sr1z/?utm_source=share&utm_medium=member_android)



Figure 1: A bat in temporary box VMT1.



Figure 2: Bats in VMT2.

## Sources

Bij12 (2024). Knowledge Document: Common pipistrelle (version 2.0, April 2024). Accessed 17-11-2024 via <https://www.bij12.nl/kennisdocumenten/kennisdocument-gewone-dwergvleermuis/>

Faunaprojecten (2020). Monitoring various temporary bat boxes [Report]. Accessed 17-06-2024 via [https://unitura.nl/app/uploads/2021/05/Unitura\\_verslag-monitoring-tijdelijke-vleermuiskasten.pdf](https://unitura.nl/app/uploads/2021/05/Unitura_verslag-monitoring-tijdelijke-vleermuiskasten.pdf)

NKNB (n.d.). Bat box in facade. Accessed 17-11-2024 via [https://nknb.nl/maatregel/vleermuiskast\\_in\\_gevel\\_huis/](https://nknb.nl/maatregel/vleermuiskast_in_gevel_huis/)