

Amaurobius similis in Britain

Amaurobius fenestralis in Britain

Amaurobius ferox in Britain

Where are they?

Similis is very widely distributed but, being associated with buildings and gardens, is understandably scarce in more upland and less populated areas such as central Wales and the highlands of Scotland. *Fenestralis* is likewise widespread - apparent gaps may be a result of under-recording rather than real absence. Finally, *ferox* is much more scattered across England and Wales and even more so in Scotland but it too is probably under-recorded.

For more information

britishspiders.org.uk/srs_Amaurobius_similis britishspiders.org.uk/srs_Amaurobius_fenestralis britishspiders.org.uk/srs_Amaurobius_ferox Bee, L., Oxford, G. & Smith, H. (2020) *Britain's Spiders*. 2nd end. Princeton WILD*Guides*.

The British Arachnological Society

The BAS is Britain's only charity devoted exclusively to spiders and their relatives. We use science and education to advance the wider understanding and appreciation of arachnids, and to promote their conservation.

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3 Laceweb spiders

FACTSHEE

(Amaurobius species)



Advancing Arachnology

The spiler Anaurobius simils

A 'doily' of lacy, bluish-tinged silk on a closely cropped hedge, or a more tangled affair emerging from a hole in masonry, give away the presence of one of our Laceweb spiders.

How to recognise Laceweb spiders

In Britain, we have just three species in the family of Laceweb spiders (Amaurobiidae): Amaurobius similis, Amaurobius fenestralis and the Black Laceweb Spider Amourobius *ferox*. Here we will call them *fenestralis*. similis and ferox. Similis must be one of Britain's most frequently encountered spiders because it inhabits holes and crevices around buildings across the country. The three species look very similar but differ slightly in size, overall coloration and preferred habitat (see FACT FILE below). Similis and fenestralis are particularly similar and individually variable; they can only be reliably told apart with microscopic examination.



Amaurobius similis



Body lengths: Males - 6-8 mm

(*similis*); 4-7 mm (*fenestralis*); 8-10 mm (*ferox*)

Females - 9-12 mm (*similis*); 7-9 mm (*fenestralis*); 11-15 mm (*ferox*)

Appearance: • Cephalothorax (front section of the body) – The distinctly darker head area contrasts with the rest of the

Prev capture

Although largely active at night, when they lurk at the entrance to their retreats or extend

their webs, these spiders will also dash out -

at high speed – when the web is disturbed

during the day. The spiders feed mainly on

Laceweb spiders have an additional silk-

of the normal spinnerets (see Factsheet 1)

out using a double row of bristles (the

rather like the woolly-side of Velcro.

crawling invertebrates, but aerial insects are

also taken. Unlike most of our spider families,

spinning apparatus, called a cribellum, in front

under the abdomen. This is a slit-like structure

from which woolly, non-sticky, silk is combed

calamistrum) on the back legs. This silk acts

entangling the legs of potential prey and also retaining it by molecular attraction (Van der

Waals forces). On a flat surface, such as a

Amaurobius fenestralis

cephalothorax, which is midbrown to very dark brown, depending on species. In mature male *ferox* there is a conspicuous white patch at the end of the pedipalps (see Factsheet 1).

• Abdomen (back section) – All three species have a characteristic dark-brown, wedge-shaped mark with a pale mid-line and edged with yellow in the front half of the abdomen, and pale, forward-pointing chevrons in the rear half. In *ferox*, everything is darker and the pattern may be less obvious. evil overing

Male Black Laceweb Spider (*Amaurobius ferox*) showing pedipalps, which look as if they are carrying a white marble!

• Legs – Short, relatively stocky and the colour of the rear part of the cephalothorax. All species have darker rings but these can be difficult to make out in *ferox*.

Habitat: Similis – usually around window frames and in tightly growing garden hedges; fenestralis – under tree bark and stones and in dense vegetation; ferox – gardens, cellars and outhouses and under rubble or other debris, often in damper and shadier situations than the others.





Lacewebs surrounding central tube-like retreats

garage door or on the cut edge of a dense garden hedge, the web spreads out like a doily from a central cavity, within which the spider makes its home. On complex surfaces, the web is more of an untidy sheet. When freshly produced, the silk has a bluish tinge.

Amaurobius similis spiderlings feeding off

special eggs laid by their mother

Extraordinary life history

All three species can be found as adults in most months of the year. Most *similis* and *fenestralis* males are mature in late summer/autumn, whereas mature females are found throughout the year, with spring and autumn peaks. *Ferox* has more defined peaks - in spring for males and early summer for females. *Similis* egg-sacs are typically produced in June and July, the parents having mated the previous autumn. The mother guards the egg-sac for about a month, before the young emerge. Some amazing behaviour

follows. After two or three days the female begins to cover her young with a fine layer of silk and they become very active, eventually moving under her abdomen, like piglets round teats. Indeed, they are being fed, but not on milk. The female produces special 'trophic' (food) eggs, which are avidly consumed by the young and help them progress towards their second moult, some five days later. The mother then taps and pulls at the silk, activating her previously quiet offspring, which swarm all over her, biting wherever they can. Eventually she is overwhelmed and eaten, a process called matriphagy (literally 'mother-eating'!). These well-fed young disperse some 14 days later, larger, and in a much better nutritional state, as a result of their mother's provisioning and ultimate sacrifice. The other two Laceweb species behave similarly.

Laceweb spiders (Amaurobius species)