

The tobacco beetle, *Lasioderma serricorne*, causes extensive damage to stored tobacco, both raw tobacco and the manufactured product.

This insect also feeds on different products of animal and plant origin: seeds, grain, cocoa and packaged food products that have been stored for long periods of time. In addition, it is a serious pest causing particular damage to herbaria plant specimens.

The adult can easily perforate thick plastic containers and cardboard boxes, causing serious problems in packaged food products, which cannot be sold.

MORPHOLOGY AND BIOLOGY

The adult beetles are small, oval-shaped and a yellow-reddish or brown-reddish colour. They measure from 2 to 2.5 mm long. Their head is bent forward almost at right angle to their body, so they seem to have a pronounced humpback when looked at from the side.

The larvae are a white-yellowish colour. Each larva has three pairs of legs and a brown head. They can measure from 2 to 3 mm.



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The adult beetle has a life cycle lasting 2 to 4 weeks. The adult females lay approximately 100 eggs between 6 and 20 days. The eggs are oval-shaped and a white colour. They take 6 to 10 days to hatch.

When the larva emerges, it perforates the stored products causing damage to the tobacco and infesting it. Larvae reach their maximum growth in 30 to 50 days, then enter into pupal stage which lasts for 8 to 10 days or even more, depending on the temperature. The pupae are covered with a silky cocoon that contains food.

The growth period from egg to adult is variable, but it usually lasts between 6 and 8 weeks under the favourable conditions of humidity and temperature (20-37 °C). *Lasioderma serricorne* cannot tolerate cold weather, the adults die within 6 days if the temperature is 4 °C and the eggs only survive for 5 days at temperatures from 0 to 5 °C.

Source: The Entomology Department of the University of Pennsylvania and the Food and Agriculture Organization of the United Nations (FAO).

Lasioderma serricorne cover image: © www.scienceimage.csiro.au/image/11062

ECONEX LASIODERMA
SERRICORNE
ECONEX LASIODERMA
TRAP



SOLUTIONS OVERVIEW

CODE	TRADE NAME	IMAGE
TA234	ECONEX LASIODERMA TRAP	
VA162	ECONEX LASIODERMA SERRICORNE Pheromone diffuser with a duration of 40 days.	



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PHEROMONES AND TRAPS



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ECONEX LASIODERMA
SERRICORNE
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www.lasiodermaserricorne.eu

Sexual pheromone diffuser to attract
males of the tobacco beetle
Lasioderma serricorne

BIOCONTROL



ECONEX[®]
PHEROMONES AND TRAPS

Since 1986



DESCRIPTION

CODE	TRADE NAME
VA162	ECONEX LASIODERMA SERRICORNE
Sexual pheromone diffuser to attract males of the tobacco beetle <i>Lasioderma serricorne</i> . It lasts 40 days in field conditions.	
OMDF register number: 059/2014	

The diffuser is a polyethylene closed tube that is individually packaged in an aluminium sachet with labelled specifications.

Once removed from its packaging, **the diffuser needs no activation or opening**, just placed correctly in the trap. **DO NOT OPEN THE TUBE.**



ECONEX LASIODERMA SERRICORNE
Pheromone diffuser and packaging of the product.



DETECTION AND MONITORING

Place **1 to 3 traps** in each warehouse room, separated at least 5 m apart from each other. **The traps must be active all year round** in warehouses where tobacco products are stored.

MASS TRAPPING

The males of this species are captured in order to reduce mating, meaning that the unfertilised females will lay unviable eggs. This greatly reduces the population of the pest.

For mass trapping, the number of traps must be increased **up to 4 traps per 100 m² of warehouse** and separated at least 5 m apart from each other.

NECESSARY MATERIAL

ECONEX LASIODERMA TRAP and a pheromone diffuser **ECONEX LASIODERMA SERRICORNE**.



ECONEX LASIODERMA TRAP

The ECONEX LASIODERMA trap consists of a white adhesive sheet, 0.3 mm thick and made of PET. This sheet is coated on its inner side with a pressure-sensitive adhesive (without solvents),

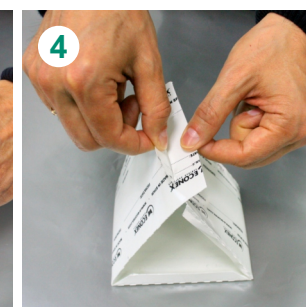
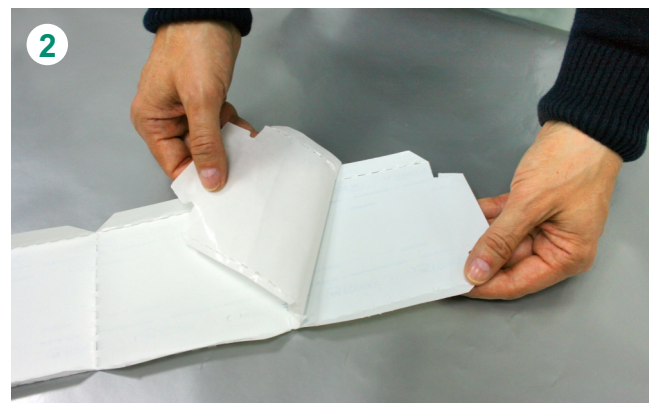
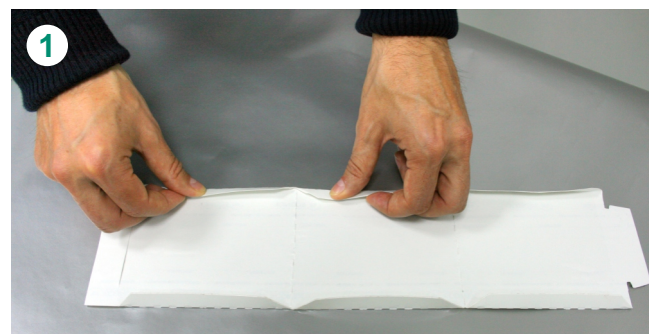
which is protected by a sheet of silicone paper. It is used to trap *Lasioderma serricorne* insects.

The trap is provided unfolded, measuring 40 x 12.5 cm. Once folded, it is prism-shaped and measures 12 x 10.5 x 13 cm.



ECONEX LASIODERMA TRAP unfolded

Assembly of the trap: Fold the trap along the guidelines, without inserting the upper tab. Remove the sheet of silicone paper. Insert the upper tab into the grooves of the trap and adjust it to fit



Activation of the trap: Place the pheromone diffuser **ECONEX LASIODERMA SERRICORNE** on the base of the trap, where it will remain fixed by the glue. The trap should be placed on the ground and preferably close to a wall.



DAMAGES

Lasioderma serricorne causes serious damage to tobacco products. Adults and larvae can easily perforate the thick packaging of stored products and cause damage by infesting the tobacco.



Damage caused by *Lasioderma serricorne*

STORING THE DIFFUSERS

The diffusers must be stored in its original packaging without opening it in a refrigerator at 4 °C; or in a freezer at -18 °C, in which case they remain effective for 2 and 4 years respectively.