The diffuser is in a blister pack and individually packaged in an aluminium sachet with label specifications. It lasts 60 days in field conditions.

Once removed from the packaging, **the diffuser needs no activation or opening**, just placed correctly in the trap.

DAMAGES AND ELEMENTS OF DIAGNOSIS

Orthothomicus erosus is a bark beetle that mainly attacks the Pinus species, although it has also been found on Cupressus, Picea, Cedrus libani, Abies pinsapo and Pseudotsuga menziesii.

When the larvae feed on the phloem, they block the circulation of water and nutrients with their galleries in the tree. As a rule, *Orthotomicus erosus* attacks very weak trees but that are still alive. Sometimes, in areas where the forest is in an extreme state of decline, behaviours of an aggressive insect have been detected. Therefore, they are capable of colonising apparently healthy trees. At first, the pine trees that have been affected, turn a yellowish colour in the upper part of the crown until finally reaching the lower branches of the tree. The dark sawdust of the galleries is a very common, having been evacuated during mass attacks.

Orthotomicus erosus is a transmitter of the blue Sapstain fungus which, in addition to the direct damage to the tree, causes losses to wood.



STORING THE DIFFUSERS

They must be stored in their original packaging in a cool place.

To preserve the diffusers for long periods of time, it is recommended to keep them in the refrigerator at 4 $^{\circ}$ C; or in the freezer at -18 $^{\circ}$ C, in which case they will last for 2 and 4 years respectively.

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EROSUS 60 DAYS



SOLUTIONS OVERVIEW

CODE	TRADE NAME	IMAGE
VA189	ECONEX ORTHOTOMICUS EROSUS 60 DAYS Pheromone diffuser with a duration of 60 days.	
TA226	CROSSTRAP® MINI WITH WET COLLECTION CUP	
TA204	CROSSTRAP® MINI WITH DRY COLLECTION CUP	Ţ
TA147	ECONEX CROSSTRAP® SUPPORT	
TA156	CROSSTRAP® WET COLLECTION CUP	₩ ccow
TA157	CROSSTRAP® DRY COLLECTION CUP	S1004

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ECONEX ORTHOTOMICUS EROSUS 60 DAYS

www.orthotomicuserosus.eu

Aggregation pheromone to attract males and females of *Orthotomicus erosus*







DESCRIPTION

CODE	TRADE NAME
VA189	ECONEX ORTHOTOMICUS EROSUS 60 DAYS Aggregation pheromone diffuser to attract males and females of <i>Orthotomicus erosus</i> + 1 hanger in the form of a paper clip. It lasts for 60 days in field conditions. OMDF register number: 133/2014

DETECTION AND MONITORING

In forests 1 CROSSTRAP® MINI should be placed every 20 ha, separated at least 1000 m from each other. In surfaces less than 20 ha at least one trap should be placed per stand or forest.

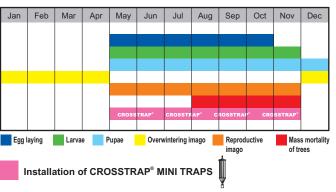
The traps should be placed in areas with good visibility, such as forest borders, forest trails or fire-breaks. Windy places should be avoided, as the wind complicates the insects' flight and could damage the traps.

A detection trap system should cover the environmental variability of the monitored forest. As a rule, traps should be placed and active between May and October.

Wet captures are recommended because they allow for the precise identification of the captures. For this purpose, fill the collection cups with 10 ml of diluted propylene glycol (10 to 20%) or with antifreeze for the car.

This liquid is used for killing the captured insects as well as preserving them. It must not be dissolved too much with the rainwater, in which case it should be replaced. It is recommended to collect the captured insects at least every 15 days.

Phenology of Orthotomicus erosus



EXHAUSTIVE MONITORING

For exhaustive monitoring, the traps should be placed between 100 and 500 metres apart from each other in forest trails, firebreaks or forest borders.

This means a density of **0.3 to 3 CROSSTRAP® MINI per ha**. They can also be placed inside the forest, as long as it is not too dense. **Dry captures are recommended for exhaustive monitoring** using the slippery collection cup with a stainless steel mesh on the base

NECESSARY MATERIAL

CROSSTRAP® MINI TRAPS

The **CROSSTRAP**® **MINI** is a state-of-the-art forest trap. This trap has been created through an R + D project (University of Murcia - ECONEX) aimed at developing traps and attractants for forest insects.



The trap consists of a 33 cm diameter polypropylene lid with a central carabiner attached to a steel spring. Two reinforced PVC sheets are held in place by four steel springs in the lid's upper section. They are used as elements of dynamic suspension, serving as shock absorbers against the force of the wind exerted on the trap, avoiding its breakage in the forest. The PVC sheets are also fixed to the lower part of a 30 cm diameter polypropylene funnel.

The collection cup is fixed to the lower part of the funnel by screws.

The PVC sheets, funnel and collection cup are treated with a slippery product that increases the amount of captures considerably, also preventing the insects from escaping.

The trap can be used with two types of collection cup: CROSSTRAP® WET COLLECTION CUP for wet captures (with liquid), and CROSSTRAP® DRY COLLECTION CUP for live captures (without liquid).

CROSSTRAP® WET COLLECTION CUP (Code: TA156) has an approximate capacity of 2 litres and a drain in the upper section to prevent it from filling with rainwater. It measures 12.5 cm diameter x 19 cm high and has a slippery product to prevent the captured insects from escaping.

CROSSTRAP® DRY COLLECTION CUP (Code: TA157) has the same capacity and measurements as the CROSSTRAP® WET COLLECTION CUP but it has a base made of stainless steel mesh that drains away the rainwater 100% and eases air circulation.







CROSSTRAP® WET COLLECTION CUP

CROSSTRAP® DRY COLLECTION CUP

CROSSTRAP® MINI can last up to 7 years due to its structure and highly resistant components. The unfolded trap measures 33 cm diameter x 100 cm high. Once folded, it is 33 cm diameter x 40 cm high, making its transport easier.

The **ECONEX ORTHOTOMICUS EROSUS 60 DAYS** pheromone diffuser should be hang on a CROSSTRAP® MINI using the holes made for that purpose in one of the PVC sheets.





ECONEX ORTHOTOMICUS EROSUS 60 DAYS pheromone diffuser and packaging of the product.