

However, a tree can live for many years under these conditions. The trees affected by *Cerambyx* tend to die for other reasons, caused by the wood losing its biomechanical resistance when bored by the larvae.

This silent loss of resistance accumulates until the main branch system tears off.



*Cerambyx welensii* adults



Exit hole used by the adults

Therefore, it is a slow, hidden and silent process that takes many years to occur, given that it is cumulative. In an instant, it can end the life of a centenarian tree.

These attacks are of great importance in open woodlands and cork oak stands of Western Andalusia; Extremadura; and in oak groves of the Balearic Islands.

# ECONEX CERAMBYX

## SOLUTIONS OVERVIEW

CODE	TRADE NAME	IMAGE
VA303	<b>ECONEX CERAMBYX 60 DAYS</b> Diffuser of kairomones that should be placed on a CROSSTRAP® XYLOFAGOS. It lasts for 60 days.	
TA196	<b>CROSSTRAP® XYLOFAGOS WITH DRY COLLECTION CUP</b> Xylofagos trap for live captures (without liquid).	
VA399	<b>ECONEX CERAMBYX 1 L</b> Kairomonal liquid attractant for ECONEX CERAMBYX TRAPS.	
VA407	<b>ECONEX CERAMBYX 5 L</b> Kairomonal liquid attractant for ECONEX CERAMBYX TRAPS..	
TA259	<b>ECONEX CERAMBYX TRAP</b> Disposable trap to capture <i>Cerambyx</i> spp.	
TA157	<b>CROSSTRAP® DRY COLLECTION CUP</b> Collection cup for live captures (without liquid).	

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# ECONEX CERAMBYX

[www.cerambyx.eu](http://www.cerambyx.eu)

## Great Capricorn beetle

### BIOCONTROL





## ECONEX CERAMBYX 60 DAYS

Diffuser of kairomones to attract both sexes of different species of *Cerambyx* + 1 hanger in the form of a paper clip. It lasts 60 days in field conditions.

Chemical formulation patented by the UNIVERSITY OF HUELVA in exclusive use by SANIDAD AGRÍCOLA ECONEX, S.L.

### DETECTION AND MONITORING

**1 or 2 CROSSTRAP® XYLOFAGOS WITH DRY COLLECTION CUP should be placed per hectare.** The traps, together with the attractant, should be placed in the forest between June and August, depending on the target species.

To reinforce monitoring, up to 3 traps per hectare can be placed, separated from 100 to 500 metres apart from each other. The traps should be placed in trees with evidence of attacks, so attention should be paid to the exit holes and sawdust at their bases.

Dry capture is recommended as well as control of the traps every week or 15 days to avoid interfering with secondary fauna.

### NECESSARY MATERIAL

#### CROSSTRAP® XYLOFAGOS WITH DRY COLLECTION CUP



ECONEX CERAMBYX 60 DAYS diffuser placed in a CROSSTRAP® XYLOFAGOS WITH DRY COLLECTION CUP

It is a trap specifically designed to capture insects that walk on the bark of trees. It is capable of adapting to the perimeter of the trunk due to its flexible funnel.

The trap consists of a 30 cm diameter soft funnel joined to a collection cup. A sheet of cellular polycarbonate is used as a folded cover, which should be placed in contact with the tree trunk. The trap is fixed to the tree trunk with two nylon cords. The lower cord holds the trap, joining the sheet and funnel through a series of holes and grooves on the sheet. The upper cord is used to maintain the sheet attached to the tree trunk, which also has a series of lateral holes in which to place the ECONEX CERAMBYX 60 DAYS attractant.

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

The trap is used together with the CROSSTRAP® DRY COLLECTION CUP for live captures (without liquid).

The trap is activated by hanging the ECONEX CERAMBYX 60 DAYS attractant diffuser on one of the holes on the sheet with the paper clip provided with the trap.

The folded trap measures 33 cm diameter x 88 cm high. To make its transport easier, the trap is packaged with the sheets separated and the funnel folded.

Remove the trap once the trapping period has finished to avoid any incidences with secondary fauna.

### ECONEX CERAMBYX 60 DAYS DIFFUSER

The diffuser should be hung on one of the holes that have been made for this purpose on the sheet.

The diffuser is in a blister pack and individually packaged in an aluminium sachet with labelled 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.

The diffusers must be stored in its original packaging in the refrigerator at 4 °C; or in the freezer at -18 °C, in which case they will last for 90 and 150 days respectively.



ECONEX CERAMBYX 60 DAYS diffuser of kairomones and packaging of the product.

## ECONEX CERAMBYX 1 L and 5 L

Kairomonal liquid attractant to capture both sexes of different species of *Cerambyx*. To be used with an ECONEX CERAMBYX TRAP.

Chemical formulation patented by the UNIVERSITY OF HUELVA in exclusive use by SANIDAD AGRÍCOLA ECONEX, S.L.

### NECESSARY MATERIAL

#### ECONEX CERAMBYX TRAP

In an effort to adapt the product to use it in large open woodlands, ECONEX has developed this disposable and economic trap. It is used together with the attractant **ECONEX CERAMBYX 1 L** or **ECONEX CERAMBYX 5 L**.

The trap consists of a container with an inverted funnel in the upper part and two cords to tie it around the tree trunk.

Once it is attached correctly to the tree trunk, fill the trap with approximately 250 ml of liquid attractant. It is recommended to place a trap in each tree with symptoms of attack by *Cerambyx*.

### ECONEX CERAMBYX 1L and 5 L LIQUID ATTRACTANT

Kairomonal liquid attractant to capture both sexes of different species of *Cerambyx*.



ECONEX CERAMBYX TRAP

To capture *C. welensii*, pour 250 ml of attractant into an ECONEX CERAMBYX TRAP and replace it every 3 or 4 days depending on the evaporation of the product.

The traps should be placed in June, to capture the peak flight period of this species.

For other species of *Cerambyx*, check the traps every week or 15 days, remove the captured insects and refill with another 250 ml of the liquid attractant if necessary.

As it is a liquid attractant used for filling the traps, its duration in field conditions will depend on climate conditions such as humidity, temperature, sun exposure, etc.

**CROPS AND USES:** Population monitoring in forests with *Quercus* spp. **Place 1 or 2 ECONEX CERAMBYX TRAP per hectare.** The traps, together with the attractant, should be placed in the forest between June and August, depending on the target species.

The attractant must be stored in its original packaging in the refrigerator at 4 °C; or in the freezer at -18 °C, in which case it will last between 90 and 150 days respectively.

### DAMAGES AND ELEMENTS OF DIAGNOSIS

The adults can be observed licking the exudations from the cankers of the trees, mainly caused by wounds due to bad pruning. The adults lay their eggs close to these open and oozing wounds as a way to access their main food supply, xylem.

The trees infected by initial attacks do not show any symptoms. When the population of the larvae and their size increase, some accumulations of sawdust can be observed.

After the first adults emerge, exit holes filled with lots of sawdust are clearly shown.



Tree greatly affected by *Cerambyx*

These insects continue reproducing on the same tree for years because the larvae feed on the xylem, therefore not causing the direct and immediate death of the tree. In any case, the crown of the affected tree loses vigour and defoliation increases over the years. If the insect attacks just one thick branch, only a part of the crown is affected. The destruction of the xylem vessels reduces the amount of water that flows up to the crown and as a consequence, the foliation decreases.