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Constant Stabilization System

Innovative, fast-acting
system that
automatically
re- stabilizes
Light and effective.



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Constant Stabilization System

New system,
fast-acting, which
automatically
restabilizes.
Lightweight and effective.

Up to **400 lives could be saved per year** thanks to a rapid response from emergency teams, according to a report by the General Directorate of Traffic (DGT) published in 2011. “Arriving early and acting well can **prevent up to a 35% of the deaths that occur in the first hour after the accident**”

HORA DORADA. It is the time between the moment of the accident and final care. Pre-hospital care at the accident site should be limited to the first 10 minutes of that hour, which is why some call it the **10-minute platinum**.

Within the complex maneuver of releasing a person from inside a vehicle, there is a section that is the stabilization of the vehicle.

In recent years it has stressed the importance of stabilization in the accident vehicles, this has led us to try to improve this section, so after much research and tests conducted, the **SEC** was born (**S**ystem **E**stabilization **C**onstant).

The SEC is a tool that facilitates the work of the firefighter, considerably shortening the response time and thus improving the attention to the victims.

SEC is a tool that is indicated to stabilize vehicles that have been damaged positioned on their four wheels, on one side or on the roof.

Currently, to stabilize a vehicle that has been on all four wheels, it is necessary to use blocks of different sizes and finally a wedge to adjust the blocks to the height of the vehicle. At this point the vehicle is totally stable but only temporarily.

When, in the process of release from prison, we are lightening the weight of the vehicle, either by people who are being rescued or by parts of the vehicle that we are removing to create spaces, the vehicle is lifted by the force exerted by its shock absorbers and as a consequence distances itself from the stabilizing elements, the latter being without stabilization again and the rescue team being forced to stop the maneuver to re-stabilize.

The SEC is a system that is responsible for constantly stabilizing the vehicle.

It is placed under the vehicle looking for a strong point that will serve as support.

Once positioned correctly, we activate the SEC and it unfolds to come into contact with the vehicle, from then on it will exert a constant 150 N force underneath it.

Thanks to a toothed rack and a pivoting wedge, designed to facilitate ascent and prevent the descent, we will achieve a www.aliveandsafe.es absorbing constant stabilization all the upward movements made by the vehicle every 2.5 mm, and it is not necessary to stop or stop the rescue maneuver to re-stabilize.

Out of scope of traffic accidents, the SEC can be used to secure a space created in the extraction or release of a person. There is the possibility of stacking them to bridge larger distances.

This device has been designed with the firefighter in mind, who is sometimes under pressure, and sometimes with poor lighting and adverse weather conditions. Therefore, it is an intuitive tool, without sophisticated elements, small in size and easy to use.

We subjected the SEC to compression tests to know its limits in AIMEE (Metalworking Technological Institute), and from these tests very valuable information came out:

- Load without deformation directly on the SEC. (Maximum working load 843 Kg.)
- Breaking load 1100 Kg.

The SEC complies with the UNE-EN ISO 4414.2011 standard and the machinery directive 2006/42 / CE applies.

Therefore, it has the CE marking and its commercialization is possible.

SEC characteristics

DESIGNATION:	Constant stabilizing system (SEC)
BRAND:	Alive and safe
MODEL:	SEC
SERIAL NO:	XXX-A
MANUFACTURING YEAR:	20XX

SEC DIMENSIONS AND WEIGHT		
Length	cm	23,5
Width	cm	13.5
Maximum height	cm	27.5
Compressed height	cm	13.5
Weight	Kg	4.2

