



Motorcycle Impact Attenuator

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To whom it may concern, please find here a brief presentation of the Protection System BASYC.

Motorcyclist protection from barriers is becoming a more relevant topic everyday. Europe is already looking at certain recommended practices to shield guardrail posts from motorcyclists who fall off their bikes and other countries are likely to follow. Motorcycle usage is growing worldwide and their safety needs to be addressed.

Basyc is a new product by Cegasa, it recently appeared on the market launching a new element, the containment mesh, whose characteristics allow the control of impact absorption against safety barriers.

After 7 years of studies in the field of the road security, BASYC makes available of infrastructures of highways a system of continuous protection, flexible and that absorbs the energy of the impacts.

The first beneficiaries of system BASYC are the motorcyclists.

The Basyc system is valid for all the types of users and vehicles, that is to say, motorbikes and cars.

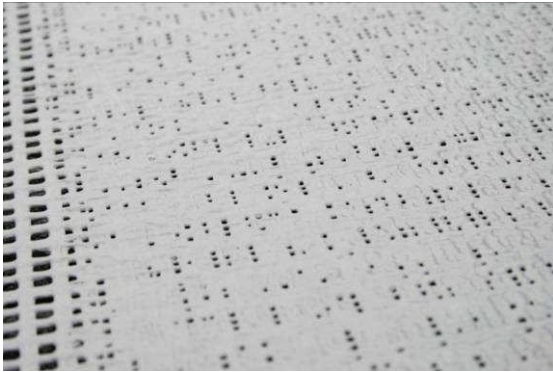


View of the installation in the city of Madrid on the road A1 Madrid in November 2007.

COMPOSITION

The system is composed of:

- The **mesh**, resulting six years studies in Spain, and made up of:
 - Polyethylene terephthalate (PET) of high tenacity. Non-existent elasticity.
 - Polyester of high tenacity. Elasticity 50%
 - Polyester of high tenacity. High Elasticity.
 - Teflon
 - Paraffin



Details of the Mesh

- The **shoe support**, metal part screwed on each post on the level of the ground ensuring the mesh a sufficient tension to prevent any contact of the victim with the post itself.



- **Screw** and other attaching parts.

You will find all information detailed of these components in the technical file of the test of the system carried out by the laboratory of reference, the CIDAUT.

INSTALLATION

The Bascy protection system settles using a machine designed especially for this purpose. Three people are necessary for the installation.



With this machine and the three technicians, Bascy installs FROM 1000 to 1500 meters linear per day.

The classical colour of the mesh of Bascy is grey, but can be any colour with a 2000 meters linear order at least.

MAINTENANCE AND REPAIRS

The Teflon which covers the mesh prevents the durable deposit of dust, grounds, graffiti, etc.

In case of crashes that would tear up the mesh, the fixation is simple and brief.

FUNCTION AND PERFORMANCES

The tests were made on the protection system BMSNA4/120 according to 321/95 took place following norm 135900-1.2, which is the most common barrier used worldwide.

The test results obtained in tests run in the official testing laboratory CIDAUT in Spain showed an H.I.C (HEAD INJURY CRITERIA) value that remains no human physical damages after a 63 km/h speed and 30 degree angle hit against the Bascy Protection System.



Pictures of the dummy crash test at the moment of the impact.

USEFUL INFORMATION

- ✚ The longitudinal tension applied on the mesh is 1%, i.e. the applicable minimal tension.
- ✚ The risks that the mesh would get less tensed within years are consequently inexistent.

- ✚ The mesh is not sensitive to UV damages.

- ✚ The paraffin and Teflon covering the mesh prevents the high temperatures generated by friction at the moment of the shock and ensures the progressive slip of the victim on the mesh.

- ✚ The elasticity and strength properties of the mesh of Basyc remain unchanged until extreme temperatures. (-20°C/+120°C).

- ✚ The mesh is a fireproof product.

- ✚ The mesh is 100 % recyclable.

- ✚ The lower part of the mesh has micro perforations allowing the snow and water run-off out of the roadway.

- ✚ System BASYC is used today several cities and councils in Spain, as Madrid, Oviedo, Elche, Huesca, Murcia, etc, and has already been presented in meetings in France, England, Italy and Germany where it obtained the 1st the Technological Innovation Award.

- ✚ The Basyc Protection System is approved according to standard EN1317



Madrid Mayor, Alberto Ruiz Gallardón, during the installation on the O'Donnell Bridge in May 2007.