

plettac electronics soluciones

ARMORED VEHICLES



## Armor Vehicles

**plettac electronics soluciones** is high qualified armored vehicle manufacturer with over 20 years of experience specializing in the fields of design, engineering, prototyping and manufacturing of armored cars, trucks and other vehicles. Since its origin, plettac electronics soluciones has armored more than 800 vehicles and has developed transformations and/or adaptations in more than 10.000 vehicles of every kind.

Throughout its activity year, **plettac electronics soluciones** has researched and developed new and better equipment and systems for its incorporation into the vehicles, maintaining and updated technology through its R&D department. All this effort invested in research and development has been compensated with the technical homologation achieved all over the world. Our products are exported to European countries, America, Africa and Near and Middle East.

Our facilities, with more than 16.000 m2 of manufacturing space allow our teams of highly skilled engineers and technicians to convert almost any vehicle platform into a fully re-engineered protective vehicle. These include armoring solutions for Troop Carriers, Luxury & Operational SUVs and cars, Pickups & Trucks, Ambulances, Armored Personnel Carriers and "Cash-in-Transit" vehicles.



## Levels of Shielding

In anticipation of the different types of weapons that can be used, and the degree of protection required, plettac electronics soluciones supplies and installs a variety of materials that meet, as the UNE-EN1063 levels of armor.

CE-1063	UL-75-NIJ
UNE-108-131	BS - 5051
UNE - 108 - 132	BS - 5357
DIN - 52290	NICECJ - 510
010300 (USA)	

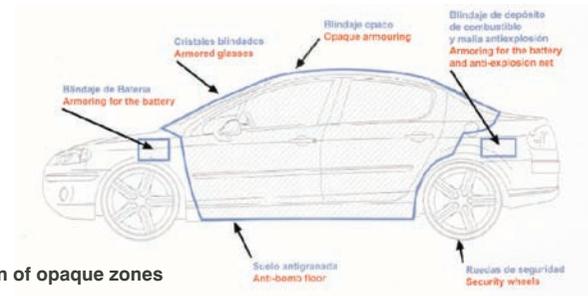
According to the protection level needed, **plettac electronics soluciones** has different security levels fulfilling the strict international codes. The most usual security levels are as follow:

Nivel / Level		Arma / Arm	Munición / Ammunition	Velocidad (m/s) / Velocity (m/s)
UNE	CER			
A - 00	BR - 2	Subfusil 2708 / Gun 2708	9 mm Parabellum NATO / OTAN	380 / 400
A - 10	BR - 3	Revólver 357	357 MAGNUM alto velocidad estándar / 357 MAGNUM high speed standard	410 / 430
A - 20	BR - 4	Revólver 44	44 MAGNUM alto velocidad estándar / 44 MAGNUM high speed standard	410 / 440
	BR - 5		8,36 x 51 NATO / OTAN	920
A - 30	BR - 6	Cetme 7,62 / 5,56	7,62 x 51 NATO / OTAN	780 / 830
A - 40	BR - 7	Mosquetón / Rifle carbino	7,62 x 51 NATO / OTAN	820 / 830

## Design

The armoring is made in an integral manner, where all dwelling area of the car is hermetic. In this way it is not possible that a projectile penetrates at the inner of the vehicle, whichever its trajectory is.

Armoring is delimited by the following protection:



### Protection of opaque zones

- Upper zone of dashboard
- Lower zone of dashboard. Separation between motor treadle area
- Front, middle and rear columns. No possibility of bullet penetration, even with a zigzag trajectory
- Doors with special treatment in lock areas
- Wheels through
- Separation between dwelling and trunk areas
- Roof
- Floor

All opaque zones are protected with two types of materials: Alloy steels and synthetic fibers (aramid fibers and composites).

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## Protection of Glazed Areas

Armored anti-bullet glass with polycarbonate.



## Product Range

### Armoring of Saloon Cars

**plettac electronics soluciones** is highly specialized in the field of Automotion Security armoring the vehicles with safe and sophisticated techniques and material.

**plettac electronics soluciones** applies to each vehicle and each situation a personalized treatment, taking into consideration the desired security grade to be covered, after a careful evaluation of risk.

Day by day the statistics demonstrate that the level of risk for certain persons increases highly during the displacements, usually made by car.

One of the most effective ways to minimize that risk is to use a safe way of transport, an armored vehicle, duly conditioned to protect the passengers of the sophisticated means of aggression actually used, by the implementation of the following standards UNE, DIN, BS and UL-USA, covering every protection standard level (from A-00 to A-40), as well as requested special protection (anti-grenade protection) and additional security systems (European CEN 1029).



## Cash - In Transit Vehicles



Nowadays the fund transport requires the use of special vehicles, armored and provided with advanced technologies to prevent robberies and assaults during the travel, and to guarantee also the security of persons as well as funds.

**plettac electronics soluciones** has designed and manufactures a Standard Fund Transport Vehicle, endowed with the utmost improvements in techniques of armoring and protection.

**plettac electronics soluciones** pays attention also to the transport of any kind of special goods (as moving of valuable merchandises, art objects, pictures, etc.) developing special designs in function of the specific needs.

## Police and Security Forces

**plettac electronics soluciones** is specialized in the design and fabrication of vehicles adapted to the modern needs of Army and Security Forces of the Nation and Local Police.

In this sense we may underline the developments in the following special vehicles:

- Squads
- Antiriot
- Patrol
- Camouflage
- Report Mobile Offices
- Prisoners Transport
- Transmissions
- Mobile Command Posts



Its Technical Division, by means its R&D Department, studies and designs any special adaptation to cover the scope of the specific needs of the Security Forces.



# ARMORED VEHICLES

## Military & Defence

The modern Defence industry requires the existence of an auxiliary industry able to supply systems of parts of high sophistication.

In this line **plettac electronics soluciones** has created its own department for the production of military products to attend to this demand.

- Tactic and Logistic armors vehicles
- Special elements in alloy steels
- Systems of parts (standard or under specifications)
- High resistance elements
- Development in last generation materials (Kevlar, synthetic, fire resistant)
- Aluminium high technology elements



## Mobiles of Versatile Use

All those places that do not justify the permanent existence of offices or services, may be satisfactory covered by the Multiline Mobiles designed by **plettac electronics soluciones**. For example, in small or disseminated population areas (villages) or seasonal people concentrations (summer beaches, local holidays, special events...).

These vehicles incorporate all the security elements required for its function, as well as service area for the public, specially conditioned when necessary.

- Post Mobiles (Post Offices)
- Bank Mobiles (Bank Offices)
- Phone Mobiles (Telephone Offices)
- ICU Mobiles (Intensive Care Unit, Ambulances)

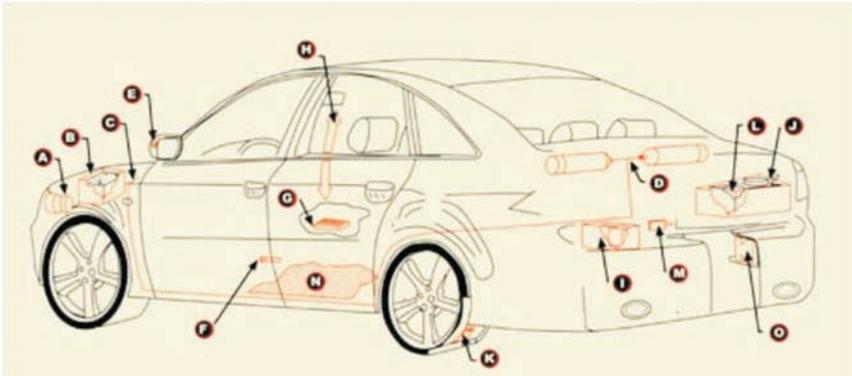
**plettac electronics soluciones** can complete all these vehicles with communications systems: radio, telephone, acoustic sound systems, computer systems, active and passive security systems, etc.



# ARMORED VEHICLES

## Accessories

The **plettac electronics**'s optional accessories contribute to increase the vehicle's security and at the same time, guarantee a high degree of comfort.



A: Emergency siren

B: Battery armoring

C / D: automatic fire extinguishing system for motor and trunk

E: Electronic intercom, internal and external

F: High security lock

G: Instrumental panel

H: Automatic windows

I: Smoke and toxic gas extractor

J: External armoring of petrol tank

K: Security Wheel

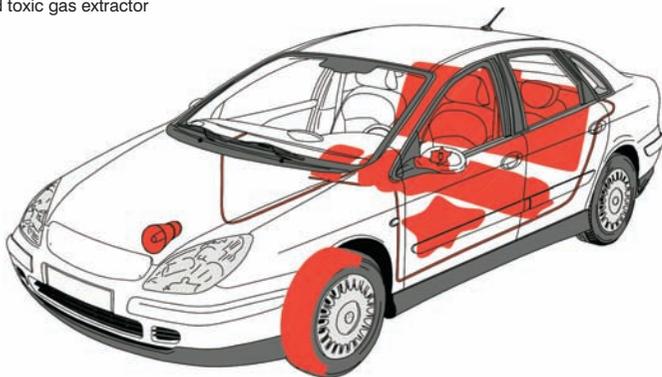
L: Anti-explosion net in petrol tank

N: Anti-bomb floor protection

OR: Reinforced bumpers

P: frequency inhibitor

Q: Intrusion detector



## References

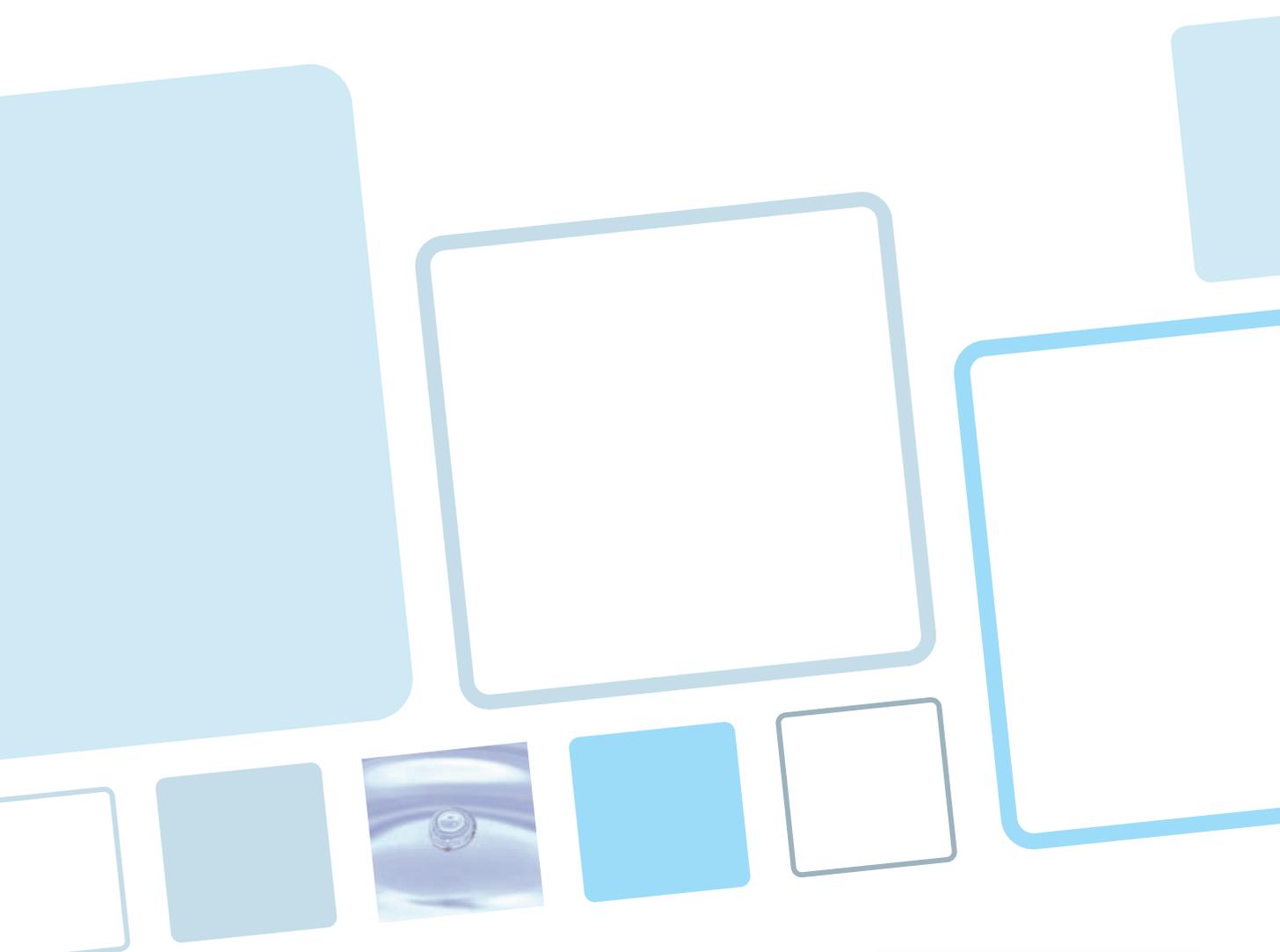
Some references in several sectors and applications areas:

- Spanish Royal House
- Government Presidency
- National Patrimony
- Home Office (Department of the Interior)
- Department of Defence
- Police General Direction
- Civil Guard
- Automobile Park of Departments
- Traffic General Direction
- Bank of Spain
- Bank of Mosu
- Algeria National Bank
- BRINK'S
- SECURITAS
- PTT RACC of Holland
- AUDI
- Fire Fighters Caracas of Venezuela
- TALGO
- Petromed
- Union Fenosa
- IBM



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ISO 9001  
ISO 14001

BUREAU VERITAS  
Certification

