



Guaranteeing your protection

# BULLET RESISTANT & ARMOURED SECURITY VEHICLES IN NIGERIA

LAGOS — • — PORT HARCOURT — • — ABUJA

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# ABOUT

## DIMKPA MOTORS

We are Dimkpa Motors, a company that specialize in Bullet-Resistant/Armoured Security Vehicle Nigeria. People and Companies that are in High-Risk environment can benefit the most from our services by using these security vehicles. This guarantees them of a safe transport from one place to another. Our vehicles are built to meet International ballistic standards (CEN, NIJ, VPAM, STANAG) of Ballistic Protection. Premium materials and precise craftsmanship complemented with deep experience within the industry allows us to provide efficient solutions for our customers.

With our global broad network of partners, suppliers and vendors, cutting edge technology platforms and in-depth market expertise, we are committed to delivering cost-effective and custom-tailored solutions to respond to emerging threats and dynamic scenarios of today's ever-changing security environment.



## OUR SERVICES

1

**Sales of Armoured Vehicles:** We sell specialized Armoured Toyota Land Cruiser civilian security vehicles such as, Toyota LandCruiser Armoured Lexus LX570, Armoured Mercedes-Benz G63 AMG, Armoured Range Rover Autobiography, and Cash In Transit vehicles (CIT) etc.

2

**Armoured Vehicle Rental Service:** We offer reliable and superior protection for the transport of government leaders, especially in hazardous areas. Our rental services are available for both Corporate and Private Individual uses.

3

**Armoured Vehicle Maintenance:** Maintenance is essential to ensure all parts of the armour are in perfect condition. This service isn't just limited to vehicles purchased from our company; it is extended to vehicles from all companies. We aim at keeping vehicles in the best working condition.

4

**Armoured Vehicle Spare-Parts:** We possess a wide array of spare-parts for armoured vehicles. Whether you are in need of bullet-resistant windows, run-flat device or multitude of other bullet-resistant car parts we can definitely accommodate and deliver to desired location.

## OUR SERVICES

5

**Armouring of Soft-Skin Vehicles:** We up-armour and convert any vehicle into a customized bullet-resistant vehicle for VIPS and Security Forces with no compromise in safety and aesthetics. Taking into cognizance the vehicles ability to accommodate the extra weight, all vehicles are built to meet International BR6 level of Ballistic protection. All materials used for the armouring are imported and Certified by the International Ballistic Armour Standards. CEN=Central European Norm (EU), NIJ=National Institute of Justice (0108.01), UL= Underwrites Laboratory (752), DIN= German Standard (52290) and STANAG=NATO'S (STANAg 45690). Allow us turn your favourite luxury vehicle into a mobile luxury safe house.



## BALLISTIC PROTECTION LEVELS



1

### **BR1 .22 LR - BR2 9 mm Parabellum**

Although able to withstand a 9mm, these two classes are rarely employed within armored vehicles. (BR1 - Projectile Caliber: 22 LR. Cartridge type; 40 grain Lead Round Nose). (BR2- Projectile Caliber: 9mm Luger. Cartridge Type: 124 grain Full Steel Jacket Round Nose Soft Core).

2

### **BR3 .357 Magnum - BR4 .44 Magnum**

These classes can withstand an assault from weapons including sporting rifles and handguns—generally, guns that are shot at a close distance and lower bullet velocity, such as a .357 Magnum (BR3) or .44 Magnum (BR4). (BR3- Projectile Caliber: .357 Magnum Cartridge Type: 158 Full Steel Jacket Coned Soft Core). (BR4- Projectile Caliber: .44 Magnum Cartridge Type: 240 grain Full Copper Jacket Flat Nose Soft Core).



## BALLISTIC PROTECTION LEVELS

3

### BR5 - 5.56 x 45 NATO AP

This rating provides protection from AK-47s and other assault weapons and requires a ballistic steel thickness of at least 7.5 mm. (BR5 - Projectile Caliber: 5.56 x 45 NATO .223 Remington. Cartridge Type: 62 grain type SS109 steel penetrator)

EN Standard - European Standard EN 1063: 1999 Security Glazing Ballistic Standard

| Armor Type | Projectile Calibre               | Cartridge Type                                   | Velocity Range      | No. Shots | Shot Spacing          | No. Samples | Test Temp |
|------------|----------------------------------|--|---------------------|-----------|-----------------------|-------------|-----------|
| BR1        | .22 LR                           | 40 grain Lead Round Nose                         | 1048 to 1214 ft/sec | 3         | 4.3 to 5.1in Triangle | 3           | 55 - 73F  |
| BR2        | 9mm Luger                        | 124 grain Full Steel Jacket Round Nose Soft Core | 1280 to 1345 ft/sec | 3         | 4.3 to 5.1in Triangle | 3           | 55 - 73F  |
| BR3        | .357 Magnum                      | 158 grain Full Steel Jacket Conned Soft Core     | 1378 to 1444 ft/sec | 3         | 4.3 to 5.1in Triangle | 3           | 55 - 73F  |
| BR4        | .44 Magnum                       | 240 grain Full Copper Jacket Flat Nose Soft Core | 1411 to 1476 ft/sec | 3         | 4.3 to 5.1in Triangle | 3           | 55 - 73F  |
| BR5        | 5.56 x 45 NATO (.223 Remington)  | 62 grain type SS109 (Steel Penetrator)           | 3084 to 3150 ft/sec | 3         | 4.3 to 5.1in Triangle | 3           | 55 - 73F  |
| BR6        | 7.62 x 51 NATO (.308 Winchester) | 147 grain Full Steel Jacket (M80)                | 2690 to 2756 ft/sec | 3         | 4.3 to 5.1in Triangle | 3           | 55 - 73F  |
| BR7        | 7.62 x 51 NATO (.308 Winchester) | 150 grain Full Copper Jacket Steel Hard Core     | 2657 to 2723 ft/sec | 3         | 4.3 to 5.1in Triangle | 3           | 55 - 73F  |

### BR6 - 7.62 x 51 NATO

This rating has a high level of security and is meant to stop armor-piercing rounds. This is among the most popular protection levels as it is still straightforward to implement while adding a huge security advantage. (BR6- Projectile Caliber: 7.62 x 51 NATO .308 Winchester. Cartridge Type: 147 grain Full Steel Jacket M80)

4

## BALLISTIC PROTECTION LEVELS

5

### BR7 - 7.62 x 51 NATO AP

The strongest protection often offered, the BR7 protection level stops various armor-piercing rounds fired from super high-velocity rifles, even sniper rifles. This is in many cases the highest feasible protection available within civilian-grade armored vehicles. Although, special purpose vehicles can and frequently do accommodate higher protection levels. BR7 - Projectile Caliber: 7.62 x 51 NATO .308 Winchester. Cartridge Type: 150 grain Full Copper Jacket steel hard core.

### Protection levels BR1-BR7 vs VPAM

The European standards EN 1522 / EN 1063 specified 7 levels of protection: BR1 to BR7.

A lot of confusion exists because of the introduction of the new standards. The point is that the most popular protection class for civil vehicles - BR6 became VPAM 7 and another widespread protection class - BR7 became VPAM 9.

Class BR1 and BR2 are rarely used in armouring a security vehicle. Class BR2 can withstand a 9 mm, 38 of special and lesser rounds what will lead to slowing down bullets from weapons of larger calibers. Class BR3 can withstand .357 Magnum rounds or lesser threats, and Class BR4 can withstand a .44 Magnum rounds or

lesser threats. The scale starts separating at this point. BR5 is capable of withstanding a .357 Magnum at 5 meters and BR6 7,62 x 39 rounds from Kalashnikov rifle.

Starting from BR6 which is a relatively high level of security and above the armor is designed to stop some serious threats such as threats ranging from 7.62x51 (.308) up to 30.06 AP (Armor Piercing) and Penetrator rounds. Some sedans are rated at BR4 or BR5 protection level which can provide adequate protection against certain threats. Usually security vehicles such as SUV's are armored for different reasons like being a police car or ambulance and can provide a BR5, BR6 or BR7 level of protection. For example, police type trucks are often designed to defeat .50 caliber rounds. Concerning vehicles with BR5, BR6, BR7 level of protection - they are very resistant to explosions.

**VPAM 7 = B6 including B5**  
Minimum required thickness of ballistic steel for this level – **7.5 mm**

**VPAM 8 is between B6 and B7**  
Minimum required thickness of ballistic steel for this level – **12.5 mm**

**VPAM 9 = B7**  
Minimum required thickness of ballistic steel for this level – **14.5 mm**

**VPAM 10 is the next level after B7**  
Minimum required thickness of ballistic steel for this level – **18 mm**

| Klassen<br>VPAM<br>EN 1063<br>EN15222/23 | Waffenart<br>(Beispiele) | Patrone | Munition und Geschoss    |                    |   |
|--|--------------------------|---------|--------------------------|--------------------|---|
|  |                          |         | Kaliber                  | Art                | Masse [g]<br>Härte [HRC]                    |
| VPAM 1 B 1                               |                          |         | .22 lr                   | L/RN               | 2.8 ± 0,1                                   |
| VPAM 2 -                                 |                          |         | 9 mm Luger               | FMJ/RN/SC verzinnt | 8,0 ± 0,1                                   |
| VPAM 3 B 2                               |                          |         | 9 mm Luger               | FMJ/RN/SC verzinnt | 8,0 ± 0,1                                   |
| VPAM 4 B 3                               |                          |         | .357 Mag.                | FMJ/CB/SG          | 10,2 ± 0,1                                  |
|  |                          |         | .44 Rem. Mag.            | FMJ/FN/SC          | 15,6 ± 0,1                                  |
| VPAM 5 -                                 |                          |         | .357 Mag.                | FMs/CB             | 7,1 ± 0,1                                   |
| VPAM 6 -                                 |                          |         | 7,62 x 39                | FMJ/PB/FeC         | 8,0 ± 0,1<br>Kern 3,6                       |
| VPAM 7 B 5                               |                          |         | 223 Rem.<br>(5,56 x 45)  | FMJ/PB/SCP         | 4,0 ± 0,1                                   |
|  |                          |         | 308 Win.<br>(7,62 x 51)  | FMJ/PB/SC          | 9,55 ± 0,1                                  |
| VPAM 8 -                                 |                          |         | 7,62 x 39                | FMJ/PB/HCI         | 7,7 ± 0,1<br>Kern 4,1<br>Härte 65           |
| VPAM 9 B 7                               |                          |         | 308 Win.<br>(7,62 x 51)  | FMJ/PB/HCI         | 9,45 g ± 0,1<br>Kern 4,6<br>Härte 60        |
| VPAM 10 -                                |                          |         | 7,62 x 54 R              | FMJ/PB/HCI         | 10,4 ± 0,1<br>Kern 5,3<br>Härte 63          |
| VPAM 11 -                                |                          |         | .308 Win.<br>(7,62 x 51) | FMJ/PB/WC          | 8,4 g ± 0,1<br>Kern 5,9                     |
| VPAM 12 -                                |                          |         | .308 Win.<br>(7,62 x 51) | FMJ/PB/WC          | 12,7 ± 0,1<br>Kern 5,58<br>Härte 1320 HV 15 |
| VPAM 13 -                                |                          |         | .50 Browning             | FMJ/PB/HCI         | 43,0 ± 0,5<br>Kern 35 ± 2<br>Härte 65 ± 2   |
| VPAM 14 -                                |                          |         | 14,5 x 114               | FMJ/PB/HCI         | 63,4 ± 0,5                                  |

1

## CEN BR 1063 - Testing of transparent armour materials

A security glazing standard known as EN 1063 or CEN 1063 created by the European Committee for Standardization for measuring the protective strength of bullet-resistant glass. This protective strength of a glazed shielding is rated based on the type of munitions or threat level, it is capable of withstanding. Thus there are seven main standard threat levels – BR1-BR7 also written as B1-B7, each corresponding to a different type of small arms fire. In addition, there are two other threat levels (SG1 and SG2) corresponding to shotgun munitions. However, the SG (shotgun) classes do not necessarily comply with BR classes.

2

## CEN FB 1522 - Testing of non-transparent (opaque) materials

Abbreviation "FB" is defined in the standard DIN EN 1522 and is used to indicate the protection level of opaque (non-transparent) materials, such as armor steel, kevlar, twaron, aramid, UHMwPE (Ultra High Molecular weight Polyethylene like Dyneema or Spectra), ceramic etc. An European body VPAM – Vereinigung der Prüfstellen für angriffshemmende Materialien und Konstruktionen (Association of Centers for Certification of Bullet-resistant Materials and Constructions) – defines 14 protection levels instead of 7 levels as were defined by the standards EN 1522 / EN 1063.

## 3

## VPAM



In 1999, Association of test laboratories for bullet resistant materials and constructions (VPAM) was founded by a number of certification centers in order to promote exchange of experience and work out common guidelines testing bullet resistant materials and constructions. Test Houses at Mellrichstadt, Munich, Ulm, Vienna, and other European institutions are accredited under the VPAM. Advantages of the VPAM are additional classes, sorted by the kinetic energy of the bullet, but there are disadvantages, in particular, VPAM does not specify yaw angle. Yaw angle - obliquity angle when the bullet touches the material. After introduction of VPAM, a lot of confusion has aroused. The point of this confusion was that the most popular protection class for civil vehicles - B6 - was marked as VPAM 7 and B7 was marked as VPAM 9. A correspondence of these classifications is shown here.

In 2006 VPAM introduced a new standard - APR 2006, which defined 14 protection levels and was meant as a basis for ballistic testing of materials, construction and objects:



## 4

## STANAG 4569

**STANAG 4569 distinguishes five levels of protection:**

**Level 1:** requires NATO Ball (Ball M80) with size 7.62 x 51 in the distance of 30 meters with velocity 833 m/s. This level includes



unexploded artillery fragmenting submunitions, hand grenades, and other not big anti personnel explosive devices detonated under vehicle.



**Level 2:** encompasses size of object 7.62 x 39 API BZ in the distance of 30 meters with velocity 695 m/s. Grenade and Mine Blast Threat of this level is considerate to be 6 kg of explosive mass and subdivided into sublevels such as:

- 
- ▶ 2a - which relates to mine explosion pressure activated under any wheel or track location.
  - ▶ 2b - implicated when mine explosion occurs under center.
- 

**Level 3:** intends on size of 7.62 x 51 AP (WC core) in the distance of 30 meters with velocity 930 m/s. Grenade and Mine Blast Threat of this level includes 8 kg of explosive mass and divided into two sublevels:

- ▶ 3a - pressure of mine explosions activated under any wheel or track location
- ▶ 3b - mine explosion under center.

**Level 4:** size is 14.5x114AP/B32 at 200 meters with 911 m/s. Artillery of this level is considered to be 155 mm of High Explosive in the distance of 30 m. Concerning the Grenade and Mine Blast Threat, this level requires 10 kg of explosive mass and also is divided into

two sublevels:

- ▶ 4a- pressure of mine explosion activated under any wheel or track location
- ▶ 4b - explosion of mine under center.

**Level 5:** requires 25 mm APDS-T(M791) or TLB 073 in the distance of 500 meters with 1258 m/s and Artillery of this level must be 155 mm of High Explosive in the distance of 25 m.

## 5

### **Standard of Safety for Bullet-Resisting Equipment UL762**

Issued by Underwriters Laboratory (the nation's leading third-party product safety certification agency). Few companies actually have their materials tested by the Underwriters Laboratory. Instead they turn to a dedicated materials lab that scrupulously follows the UL standard. In the case of UL 752, the material to be tested is securely mounted 15 feet from the muzzle of the test firearm (which is itself locked into a bench rest).

A clean piece of 1/8 th-inch-thick corrugated cardboard (called a "witness plate") is mounted 18 inches behind the test piece. The witness plate is checked after each shot in order to indisputably establish not just whether or not the bullet beat the barrier (which tends to be pretty obvious), but also whether there was any spalling.

The eight levels of UL-rated bullet resistance are broken into

three groups, each with its own protocol:

### Level 1: through 3 bullet resistant glasses

For Level 1 through Level 3 bullet resistant glass (meant to protect against 9 mm, .357 Magnum, and 44 Magnum rounds), a fresh sample must stop:

- ▶ Three shots within a 4-inch triangle with no spalling on the “protected” side
- ▶ Three shots within a 1.25 to 1.75-inch area (some spalling is acceptable)
- ▶ One unsupported edge shot (some spalling is acceptable here, too)

### Level 4 and 5 bullet resistant glass

Level 4 or 5 bullet resistant glasses are meant to stop a single shot from a .30-06 or AK-47 assault rifle, respectively. Samples must stop:

- ▶ One center shot
- ▶ One unsupported edge shot (some spalling is OK)

### Level 6: through 8 bullet resistant glasses

These levels of security are intended to stop bursts from submachine guns and assault rifles, such as UZIs, M16s, and AK-47s.

Level 6 through 8 bullet resistant glass must stop:

Five shots within a 4.5 inch square

- You might assume that a bullet resistant system made from UL-rated materials is as bullet resistant as its component pieces.

## PRODUCTS



### ARMOURED TOYOTA LAND VXR “KORE EDITION”

This armoured vehicle is built to meet BR6 ballistic standards and offers 360-degree protection from high-power rifle ammunition as well as the simultaneous detonation of two hand grenades and IED below the vehicle's floor. 100% carbon fiber body appearance package and custom VIP Interior.

#### Standard Armouring Features:

- ▶ Entire perimeter protection of the passenger compartment
- ▶ High quality multi-layer bullet resistant glass
- ▶ Protection for battery and electronic control module
- ▶ Reinforced door hinges and other critical structure points
- ▶ Reinforced suspension
- ▶ Run-flat devices





## Ballistic Protection Level:

### BR6



- ▶ This rating has a high level of security and is meant to stop armor-piercing rounds.
- ▶ This is among the most popular protection levels as it is still straightforward to implement while adding a huge security advantage.

## High-Power Assault Rifle

7.62 x 51 (NATO)

5.56 x 45 (M193)

### Blast resistance:

2 × DM51 grenades under the floor and on the roof.

IED - Improvised Explosive Device contained in a small package



## Optional Equipment & Accessories:

- ▶ Light-weight armouring package
- ▶ Siren/PA/Intercom system
- ▶ Heavy duty brake system and components
- ▶ Emergency lights system
- ▶ Fire suppression system
- ▶ Heavy duty wheels





## Signal Jamming Systems

Industry-leading signal jamming systems designed for counter-terrorism applications and VIP protection with consistent coverage across all bands and frequencies.

### Standard Armouring Features:

- ▶ High-gain Omni-directional antennas offering 360° of protection.
- ▶ Rack-mounted jamming system
- ▶ Powered by vehicles +28VDC alternator
- ▶ Back-up gas-generator
- ▶ Integrated cooling system permits unlimited use in the hottest climates
- ▶ Various configurations available ranging in power and frequency application.



- ▶ Continuous coverage of all RF channels
- ▶ Operator's remote control accessible within vehicle cabin
- ▶ Effectively jam drones, navigation, video and cellular signals



## Armoured Toyota Hilux (CIT)

Armoured Toyota Hilux is a customizable vehicle able to accommodate and securely transport cash, coins and other valuables. It is often utilized as a cash-in-transit vehicle, or as an inconspicuous/low-profile vehicle transporting passengers without inviting any unwanted attention.

### Standard Armouring Features:

- ▶ Entire perimeter protection of the passenger compartment
- ▶ High quality multi-layer bullet resistant glass
- ▶ Protection for battery and electronic control module
- ▶ Reinforced door hinges and other critical structure points
- ▶ Reinforced suspension
- ▶ Run-flat devices



**Ballistic Protection Level:****BR6**

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**High-Power Assault Rifle****7.62 x 51 (NATO)****5.56 x 45 (M193)****Blast resistance:**

**2 × DM51 grenades under the floor and on the roof.**

**IED - Improvised Explosive Device contained in a small package**

**Optional Equipment & Accessories:**

- ▶ Light-weight armouring package
- ▶ Siren/PA/Intercom system
- ▶ Heavy duty brake system and components
- ▶ Emergency lights system
- ▶ Fire suppression system

- ▶ Heavy duty wheels





## ARMOURED MERCEDES-BENZ S 560

This Armoured Mercedes is protected against 7.62mm lead core, 5.56x45 and M80 ball rounds, as well as 2 DM51 hand grenades and IED. This armoured Mercedes will ensure that you stay safe in potentially life-threatening situations.

### Standard Armouring Features:

- ▶ Entire perimeter protection of the passenger compartment
- ▶ High quality multi-layer bullet resistant glass
- ▶ Protection for battery and electronic control module
- ▶ Reinforced door hinges and other critical structure points
- ▶ Reinforced suspension
- ▶ Run-flat devices



**Ballistic Protection Level:****BR6**

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**High-Power Assault Rifle****7.62 x 51 (NATO)****5.56 x 45 (M193)****Blast resistance:****2 × DM51 grenades under the floor and on the roof.****IED - Improvised Explosive Device contained in a small package****Optional Equipment & Accessories:**

- ▶ Light-weight armouring package
- ▶ Siren/PA/Intercom system
- ▶ Heavy duty brake system and components
- ▶ Emergency lights system
- ▶ Fire suppression system



▶ **Heavy duty wheels**





## ARMoured TOYOTA FORTUNER

Perhaps the most successful sports utility vehicle of India, Toyota Fortuner is the perfect blend of stunning looks and unmatched build quality. Fortuner is among the toughest SUVs of India and it clearly, built to last.

### Standard Armouring Features:

- ▶ Entire perimeter protection of the passenger compartment
- ▶ High quality multi-layer bullet resistant glass
- ▶ Protection for battery and electronic control module
- ▶ Reinforced door hinges and other critical structure points
- ▶ Reinforced suspension
- ▶ Run-flat devices



**Ballistic Protection Level:****BR6**

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- ▶ Siren/PA/Intercom system
- ▶ Heavy duty brake system and components
- ▶ Emergency lights system
- ▶ Fire suppression system

**Heavy duty wheels**



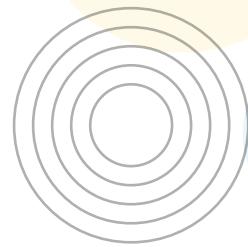
## ARMoured LEXUS LX570

This armoured SUV is one of the most popular choices due to its ability to offer 360-degree protection while still managing to maintain the highest levels of comfort and class.

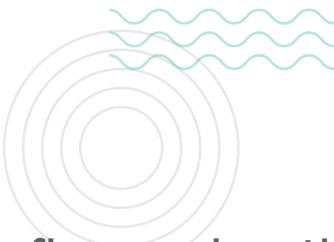
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- ▶ Light-weight armouring package
- ▶ Siren/PA/Intercom system
- ▶ Heavy duty brake system and components
- ▶ Emergency lights system
- ▶ Fire suppression system
- ▶ Heavy duty wheels



## AMOURING PROCESS

Our armouring Process is designed to give you the most reliable protection without compromising the integrity or appearance of the vehicle. For vehicles you don't want attracting attention, our finished amour is so discreet that, to a casual observer, the car doesn't look any different than it did before armouring



### Inspection

Once the client's vehicle and deposit have been received, a work order is put into effect describing the materials and levels of protection that the owner of the vehicle has requested.

It is at this point that the armouring process can begin. All vehicles are subjected to four categories of documented inspection for the time of chassis delivery to the finished product being shipped. These include receiving inspection, In process inspection, post production inspection and pre-delivery inspection.

### Vehicle Armouring

- ▶ Armour steel are installed within the floor and roof, the doors are removed and armoured separately.
- ▶ An overlap system( Bullet Catchers) is installed in the vehicle's door window openings.
- ▶ We also remove the fuel tank to protect it with ballistic nylon

and cover it with a water-resistant coating.(Explosafe Self-sealing design plus armour steel)

- ▶ suspension and braking systems of the vehicle are modified to support the added weight caused by the armour.

- ▶ We follow by covering the battery, fuse box, and ECM with protective ballistic steel.

- ▶ Standard window glasses are replaced with ( NIJ/CEN/STANAG/UL762/ VPAM) Tested Multi-layered ballistic glasses. The thickness of the ballistic range between 39-80mm.



- ▶ Radiator Protected with ballistic steel with air holes.
- ▶ The blast suppression blankets are installed to suppress the blast fragmentation from an improvised explosive device (IED) contained in a small package. and 2 × DM51 grenades

- ▶ All tyres are fitted with Run-Flat device insert allowing the vehicle to travel up to 60 miles at 60mph on flattened tyres.



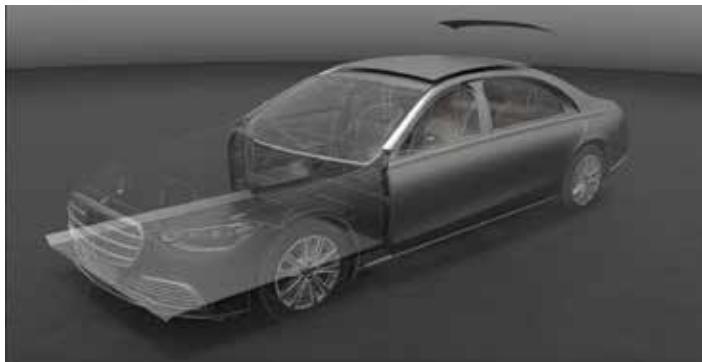
## Vehicle Preparation

2

The entire surface of the vehicle is covered with a specialized protective barrier designed to protect it from surface damage during the process of armouring. Measurements of floor, ceiling, doors and fire-

walls are taken to fabricate the ballistic with opaque armour (steel armor, side walls, rear area, roof and the fire wall).

3



### Materials Testing

4

All material are tested for their ballistic properties by independent laboratories as well as by trained staff at the Dimkpa Motors Facility.



### Engineering Design

The engineering team designs and outlines all materials required for armouring using 3D software as well as preapproved vehicle drawings.

### Metal Fabrication

5

Once the design project is created, it is submitted for precision laser cutting on the latest models of metal fabrication machines.



6

## Vehicle Disassembling

The vehicle is completely stripped down to its bare frame. All OEM parts are inspected and organized neatly in individual storage.



## Interior Modification

The vehicle is upholstered with



the requirements of the customer and the initial design specifications.

7

## Finalization Stage

Once the vehicle is fully armoured it undergoes a strict quality control process. All vehicles are inspected by a trained team responsible for ensuring that vehicle meets all armouring standards performance and craftsmanship levels



8

## Additional Features

If specified in the order, the vehicle is further equipped with additional feature including but not limited to sirens, dual doors locks, Electric door shock,



spotlight gun ports and air filtration systems. Tear gas system.

10

### Complete Reassembly

The vehicle is fully reassembled with special attention to details. All of the vehicle's mechanical and electrical systems are checked during this process as well.



11

### Pre-Delivery Inspection

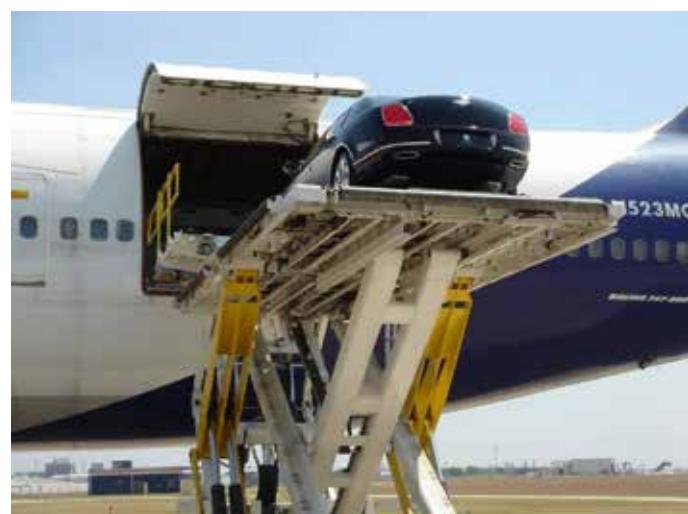
The vehicle is inspected and a road test is performed in order to ensure strict compliance with specifications as well as function of all the installed equipment.



12

### Vehicle Dispatch

The fully armoured vehicle is given a pre-shipment inspection, complete wash and details, and a written sign-off. Then the vehicle is wrapped and prepared for shipment.

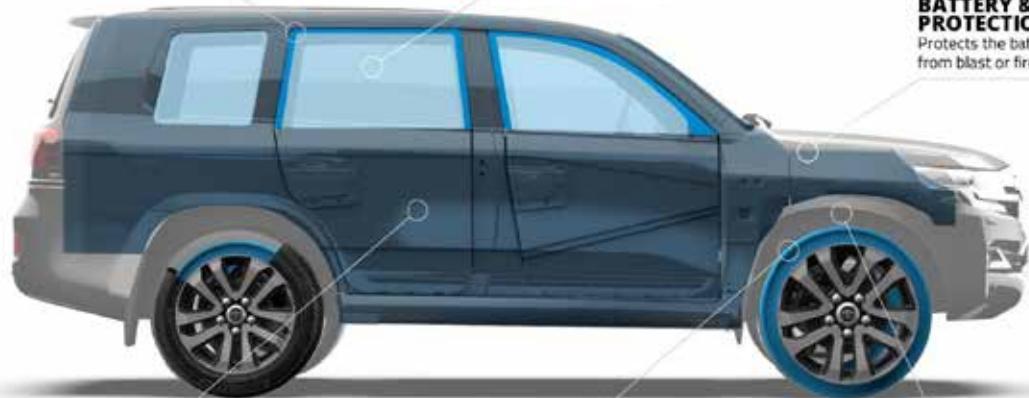


# ARMOUR DETAILS



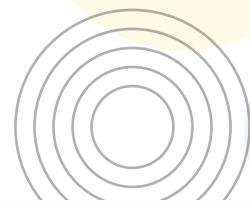
## OVERLAP SYSTEM

All door openings overlapped with ballistic steel.



## BALLISTIC GLASS

High optical clarity with ballistic protection.



## BATTERY & ECM PROTECTION

Protects the battery & ECM from blast or fire penetration.

## 360° PERIMETER PROTECTION

Full 360-degree protection of vehicle capsule.

## RUNFLAT DEVICES

Enables operation of vehicle with punctured tires.

## REINFORCED SUSPENSION

Maintains optimal ride comfort on any terrain.



## Firewall:

Ballistic steel lines the firewall and provides protection up front.



## Floor:

Floor is lined with ballistic steel and Bomb blanket to protect against mines and grenade blasts.



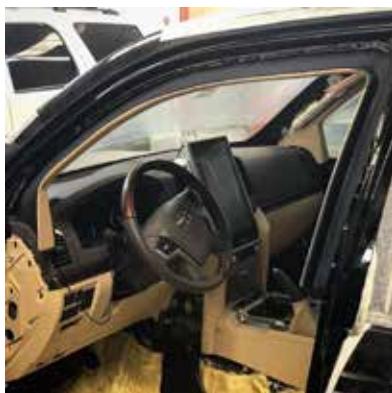
## Doors:

All doors are lined with ballistic steel.



## Roof:

Roof is lined with ballistic steel at angle.



### Overlap System (Bullet-Catcher):

All doors and windows fea-

tures ballistic steel overlaps to keep shrapnel from angle shots from entering the cabin.



### Run-Flat Device:

Run-Flat device insert allowing the vehicle to travel up to 60 miles at 60mph on flattened tyres.



### Anti-Spall Layer:

Inner-most anti-spall layer prevents glass and bullet fragments from penetrating into passenger cabin area.



### Heavy-Duty Hinges:

Custom hinges that will withstand the weight of the armoured doors.



### Glass Thickness:

The thickness of the ballistic range between 39-80mm.



### Multi-Hits Protection:

All windows are capable of sustaining multiple hits while providing protection to passengers.



**Anchored Windows:**  
All windows are anchored for additional protection from explosions.



**Window Lift System:**  
Heavy duty BR6 armoured requires heavy-duty window-lifting mechanisms.



**Battery Protection:**  
The battery is encased in a ballistic steel box.



**Radiator:**  
Protected with ballistic Steel.



**Fuel Tank Protection:**  
The fuel tank is encased in a ballistic steel box to protect against mines and grenades.



**P . A . / Multi-Siren System:**  
Located on the centre console. The multi-siren features standard siren tones, volume adjustment, and a public address system.



the front grill and visor area.

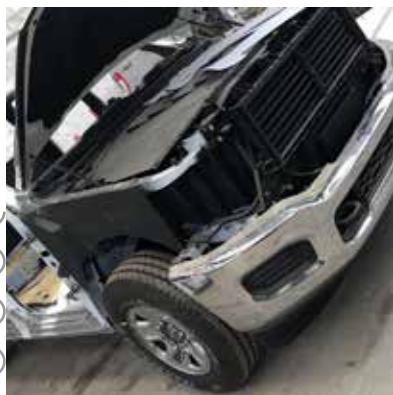
### Emergency Lighting:

**R e d / B l u e**  
LED lights are mounted in



### Power Windows:

The front two windows are powered and lower approximately 5-6 inches for documents pass-thru.



encased in a ballistic steel box.

### ECM Protection:

**E l e c t r o n i c  
c o n t r o l**  
module is



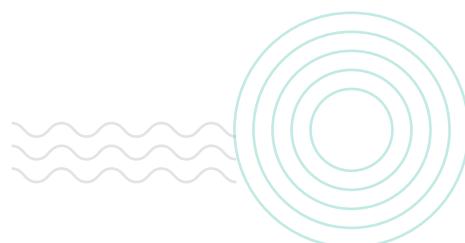
### BulkHead:

After the last row of seats In high-level armour. The bulkhead is placed with ballistic steel and armoured glass.



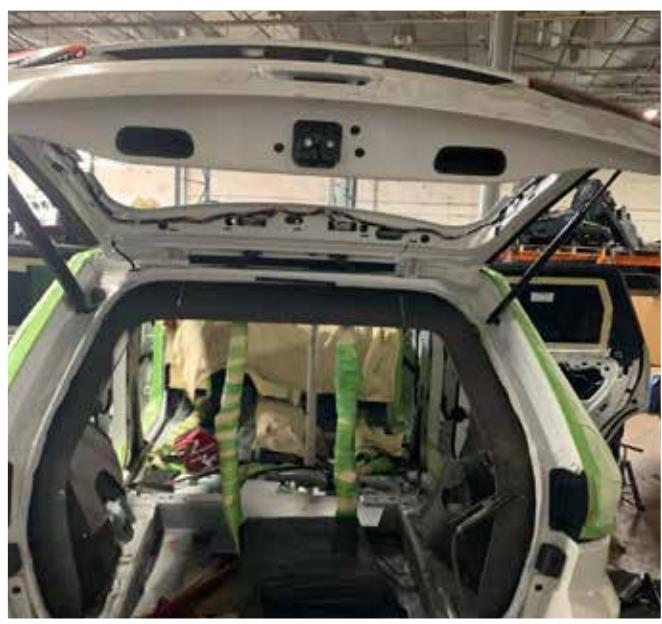
Kevlar Blanket Underbody protection against IEDs DM51

Handgrenade Fragmentation.



# GALLERY









## SAFETY MEASURES

- 1 Before entering your armoured car, carefully observe the surrounding to make sure that there is no danger.
- 2 Immediately lock the car with the central locking system before starting your journey.
- 3 Try to vary your route to all places you go regularly.
- 4 Always have enough fuel, so that you do not have to stop at unsecured places to refuel.
- 5 Only open the windows if absolutely necessary (Remember always keep the windows up, they aren't bullet proof when they're down).
- 6 When driving in a convoy, make sure that the escort vehicles in front and behind you stay close.
- 7 When stopping in traffic or at road signals, always allow enough space between the car in front and your vehicle to allow you to drive away.
- 8 Never park your armoured car unattended. This is the only way to ensure that bombs, tracking devices, etc., can be fitted and or attached to your armoured car.

9 Only by being aware of potential dangers before and during journey in your armoured car can you reduce the latent risks.

10 While driving your armoured car be extremely observant at all times. Be careful and anticipate your foreseeable threat scenerio.

11 In traffic, do not only pay attention to the vehicle in front of you, but also observe vehicles further ahead, traveling behind and on either side.

12 Observe persons, parked cars, objects, and buildings on the side of the street and in your immediate vicinity.

13 You must not get blocked in. The safe distance should not be too great to allow a vehicle to pull in front of your vehicle.

14 Too much distance will enable other vehicles to get between you and the escort or push you away.

15 Should any of the vehicles in front of you reduce its speed or should their brake lights come on, immediately reduce your speed accordinly and be prepared to brake.

# CONTACT

**Dimkpa Motors**

- Armoured SUVs
- Armoured Sedans
- Armoured CIT(Cash In Transit)
- Ballistic Tank-Top Vast
- Signal damming Systems

## SERVICES

- Sales of armoured vehicles
- Armoured vehicle rental services
- Armoured vehicle Maintenance
- Armoured vehicle spare-parts
- Armouring of Soft-Skin Vehicles

# *Guaranteeing Your Protection*

## Contact Us:

*Call/Whatsapp:* +234 814 134 6361

*Mail:* dimkpamotorsltd@gmail.com

*Instagram:* dimkpa\_motors

*TikTok:* dimkpamotors

*Location :* Lagos, Nigeria.