

**PROPOSAL FOR CEN B6 ARMORED TOYOTA  
LANDCRUISER 300 SERIES [DATED: Nov 23, 2022]**



**OEM SPECIFICATIONS:**

- Brand New Toyota LandCruiser 300 Series 2022 Model LHD Petrol
- 3.5L V6 Twin Turbo Petrol Engine
- 4x4 Full-Time with Multi terrain Select
- 5-Doors

# BALLISTIC AND ARMORING DATA

## Ballistic Specifications

B6 level is armored using materials, both opaque and transparent, that meet or exceed the requirements of the European CEN 1522/23 and CEN 1063 standards to the level FB6 for opaque areas and BR6 for transparent areas. All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armor steel and glass defeating 7.62x51mm M80 NATO Ball ammunition (U.S. NIJ level III, CEN level FB6/BR6) and 5.56x45 SS109 ammunition (CEN level FB5/BR5 and FB6/BR6) at 0° incidence (90° to the surface) and 10m range according to CEN1063 and CEN1522.

### Armoring of Opaque Areas:

All opaque areas including the roof are protected against the following and all lesser weapons/ammunitions at 90° impact angle in accordance with the above specifications.

- Caliber 7.62 x 39 mm, FJ/PB/FeC, AK 47 Kalashnikov
- Caliber 5.56 x 45 mm, FJ/PB/SCP, M16 Colt
- Caliber 7.62 x 51 mm, FJ/PB/SC, (FN) “FAL” / “LAR” NATO rifle

### Armoring of Transparent Areas:

All transparent areas are multi-layer and polycarbonate coated to protect against the following and all lesser weapons/ammunitions at 90° impact angle in accordance with the above specifications.

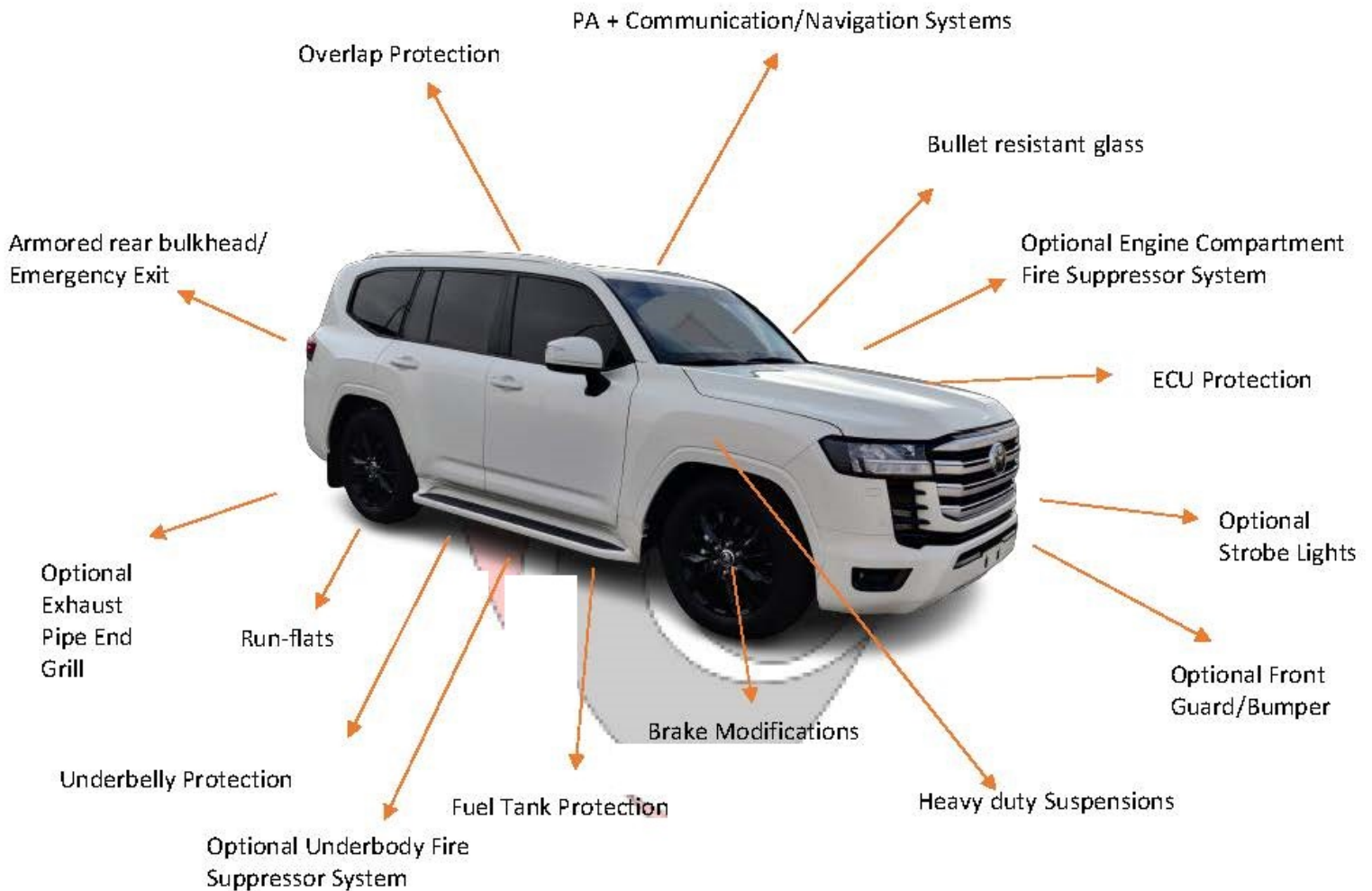
- Caliber 7.62 x 39 mm, FJ/PB/FeC, AK 47 Kalashnikov
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- Caliber 7.62 x 51 mm, FJ/PB/SC, (FN) “FAL” / “LAR” NATO rifle

### Armoring of Floor:

Floor of the vehicle fitted with blast protection to protect occupants against fragmentation from simultaneous detonation of 2 DM-51 German ordnance hand grenades or equivalent. In addition, the floor also offers protection against anti-personnel mines.



## Armoring design:



## Armoring Spec Overview:

- 6.5 mm Steel
- 42 mm Bullet-resistant Windows

## Armoring Design Overview:

- The integrated armor inside the vehicle's cab forms a complete self-supporting structure to avoid excessive stress on the vehicle's original structure.
  - The interior armor-frame provides overlap for the large-surface armor components such as the door armor plates and the windows.
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- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armoring of the door is supported by the armoring of the pillar.
- Heavy-duty door hinges with in-built doorstop.
- Fuel tank protected with steel armor plates.
- All doors and bulkhead areas are protected with high-quality armor steel.
- The battery and control module of the engine is protected with high-quality armor steel.

### **Armoring weight ratio:**

Curb Weight- 3500Kg (appx) | armoring weight ratio: 25-30%

### **Raw Material Brands Used for Armoring:**

Ballistic Steel - Swebis Sweden / Quardian Steel

Bullet-resistant Glass - Lumi / AGP

Window Regulator - Firgelli USA

Suspension upgrade - Ironman / Outback armor Australia.

Run-flat Insert - Hutchinson USA

Heavy-duty ballistic hinges - Kerb Turkey Locks and Handles / Eberhard USA/Canada

## Gallery:

ECM + Battery Protection



Bullet Catcher



Rear Bulkhead



Optional Front Grill Protection



Upgraded Suspensions



Underbelly Protection



Run-flat System



Optional HD tires



### **Equipment included:**

- Full armoring of the vehicle offering inside cage protection including all sides, doors, roof, floor and pillars.
- Engine bay, battery and ECU protection
- Reinforced HD suspension system to handle post armoring weight
- Reinforced machined HD door hinges and retainer belts
- Run flat system on all tires
- Under body and fuel tank protection
- Concealed armored bulkhead door protection for rear
- Standard brake modifications
- Multilayered bullet resistant windshield and door glasses

### **Additional Options available at extra cost:**

- Factory Tinted Windows
- Fire Suppression System
- Full Brake System Upgrade
- HD bull bar / Tow package
- HD Tire and Rim upgrade
- Optional Gun-ports
- PA system / 2-way Intercom communication package
- Radiator Protection
- Rearview camera
- Siren / Strobe lights
- Tailpipe Mesh Protection
- Video recording / Surveillance equipment
- VIP luxury interiors / MBS seats upgrade
- Window Actuators/ Lifters HD

### **Quality control:**

The raw materials are usually tested in international labs like HP White, VPAM, etc. by their respective manufacturing firms. Reports or certificates of such tests can be provided upon request. The Vehicles will issue a certificate for the Armored Car after the completion of the armoring process of the base vehicle with the Vehicle Identification Number (VIN) and this certificate shall be considered as the warranty certificate.

**Our QC team inspect the production schedule as follows:**

1. Visual inspection during stripping
2. Meteorological inspection during the installation of steel panels for dimensions and alignments.
3. Brinell hardness inspection after welding.
4. Plastic and protection coating inspections both interior and exterior.
5. Paint quality inspection

6. Salt Spray test
7. Water leakage inspections.
8. Tire and Battery Inspection.
9. Soundproof inspection.
10. Electrical and Acoustic inspection.
11. PDI

### **Warranty and after sales service:**

Armored Vehicles manufactured by The Vehicles carry warranty on all retrofitted armored components, excluding lubricants and parts that are subject to normal wear and tear, up to 365 days / 20000 Km (whichever comes to the earliest) from the date of the vehicle leaving the factory. In the event of a problem occurring that cannot be resolved by local technicians, a member of our service team will be available to assist or travel to the location of the vehicle to repair. Services under the warranty shall be provided free of charge to the customer upon immediate written notification either by the vehicle agent or the sole vehicle owner. It is left to our discretion whether to replace or repair parts that have become unusable because of proven defects in design, material, or workmanship.