

**B6 ARMoured TOYOTA LAND CRUISER 300-LHD- DIESEL / PETROL- 2022**



**NB:** Picture is for reference purposes/not the end user vehicle.

**2.0 BASE VEHICLE DETAILS:**

**TOYOTA LAND CRUISER 300-LHD, AUTOMATIC 2022**

B6 ARMoured TOYOTA LAND CRUISER 300-LHD- DIESEL / PETROL BRAND NEW 2022 MODEL	\$ 420,000.00
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<b><u>RENTAL OPTION</u></b>	<b><u>RATE PER DAY</u></b>
1 MONTH CONTRACT	\$1500/ DAY
6 MONTHS CONTRACT	\$1200/ DAY
1 YEAR CONTRACT	\$1000/ DAY

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Kindly find base vehicle specs in second attached document

**3.0 ARMORING DETAILS:**

**MEVA-B6 CERTIFIED-Material Matrix**

PROTECTION AREA	ARMOUR MATERIAL(S)& SPECIFICATION(S)	THICKNESS OF EACH LAYER (MM)	AREAL DENSITY (KG/M <sup>3</sup> )	SUPPLIED EVIDENCE OF BALLISTIC PERFORMANCE TO MEET VEHICLE SPECIFIED PROTECTION LEVEL
Roof	Ballistic steel SSAB/ Ramor 500	4.5mm	36 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Tail door header	Ballistic steel SSAB/ Ramor 500	6.5mm	52 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Floor	Ballistic steel	4.5mm	36 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Wheel arch	Ballistic steel SSAB/ Ramor 500	6.5mm	52 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Front Glass	Bullet resistant glass	40 mm	96 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Rear Glass	Bullet resistant glass	40 mm	96 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Side Glass	Bullet resistant glass	40 mm	96 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Side Doors (opaque sections)	Ballistic steel SSAB/ Ramor 500	6.5mm	52 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Side Doors (framing)	Ballistic steel & mild steel	6.5mm & 4.0mm	52 kg/m <sup>3</sup> 96 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Side panels (left and right)	Ballistic steel SSAB/ Ramor 500	6.5mm	52 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
A Post	Ballistic steel SSAB/ Ramor 500	6.5mm	52 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
B Post	Ballistic steel SSAB/ Ramor 500	6.5mm	52 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
C Post	Ballistic steel SSAB/ Ramor 500	6.5mm	52 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Front Bulkhead/ Firewall	Ballistic steel SSAB/ Ramor 500	6.5mm	52 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Front Bulkhead upper (windscreen interface)	Ballistic steel SSAB/ Ramor 500	6.5mm	52 kg/m <sup>3</sup>	Beschussamt Mellrichstadt
Tail door panels	Ballistic steel SSAB/ Ramor	6.5mm	52 kg/m <sup>3</sup>	Beschussamt Mellrichstadt

**3.1 OPAQUE ARMOR:**

- Five-sided armoring of all compartments using certified ballistic steel plating to defeat rounds up to 7,62 x 51 NATO @ 830ms (CEN B6, see Ballistic Specifications in section 4.0).
  - Floor is fitted with steel blast protection to protect occupants against fragmentation from simultaneous detonation of 2 DM-51 German ordnance hand grenades and DM 31 mine or equivalent.
  - Armoring included on kick panels, front fenders, rear wheel arches, firewall, A and B door pillars and posts.
  - Armor consists of new vehicle shell using a certified ballistic grade steel construction.
  - Vehicle armoring shall be constructed in such a way as to ensure that a projectile following a linear or angled path shall not enter the vehicle's interior without contacting the armor material. In addition to this, the possibility of a projectile entering the vehicle's interior due to a ricochet from the armor shall also be minimized.
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**3.2 TRANSPARENT ARMOR:**

- All original glass shall be replaced with ballistic glass.
  - A combination of glass, Polycarbonate and Mylar are bonded together using the latest technology, producing one of the finest transparent armors available while incorporating the following.
  - Meets or exceeds levels CEN B6 ballistic protection, (see section 4.0 for ballistic specifications)
  - Anti-spall shield protecting against shattering glass
  - Multiple impact protection (three shot).
  - Finest optical quality offers minimal distortion
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**3.3 DOORS:**

- Armor overlap at all doors to prevent penetration through door posts and pillars.
  - Front door pillars and hinges reinforced for maximum strength retention.
  - Special Door Riser System for optimal vertical alignment and dissipation of dynamic door stresses.
  - HD Nylon retainer straps at all doors to reduce hinge wear.
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**3.4 ELECTRICAL:**

- All standard electrical equipment of this vehicle shall be tested and modified as necessary to protect against the armoring process.
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**3.5 SUSPENSION:**

- Along with the improved braking systems, the suspension components are upgraded to provide added safety, improved performance and handling of the finished armored vehicle as necessary
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**3.6 BRAKES:**

- Brakes pads are upgraded to provide a superior handling.
  - Front discs are replaced with slotted rotors, vented discs for better heat dissipation.
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### **3.7 TIRES AND RUN FLATS:**

Certified run flats are provided, and tires are replaced to cope with the additional weight,

### **3.8 ADDITIONAL SECURITY FEATURES AND ACCESSORIES**

- Upgraded Heavy Duty Rims.
- Handheld 2kg fire extinguisher.
- All manuals and written information provided by the vehicle manufacturer shall be included.

### **3.9 WEIGHTS:**

- The center of gravity is raised after armoring which can affect the stability in cornering and braking. While suspension upgrades have been completed to offset this effect, care must be taken in handling the vehicle. It is recommended that drivers are trained to handle the vehicle with the increase in weight load and change in center of gravity position. Training options available

### **4.0 BALLISTIC SPECIFICATIONS:**

LEVEL	WEAPON	CALIBER (mm)	PROJECTILE				STRIKES	DISTANCE ±10 (mm)
			TYPE	MASS ±0,1 (g)	RANGE (m)	VELOCITY ±10 (m/s)		
BR1	Rifle	0,22 LR	L/RN	2,6 g	10,00	360	3	120
BR2	Hand gun	9 mm Luger	FJ <sup>1</sup> /RN/SC	8,0 g	5,00	400	3	120
BR3	Hand gun	0,357 Magnum	FJ <sup>1</sup> /CB/SC	10,2 g	5,00	430	3	120
BR4	Hand gun	0,44 Rem Magnum	FJ <sup>2</sup> /FN/SC	15,6 g	5,00	440	3	120
BR5	Rifle	5,56 x 45* NATO	FJ <sup>2</sup> /PB/SCP	4,0 g	10,00	950	3	120
BR6	Rifle	7,62 x 51 NATO	FJ <sup>1</sup> /PB/SC	9,5 g	10,00	830	3	120

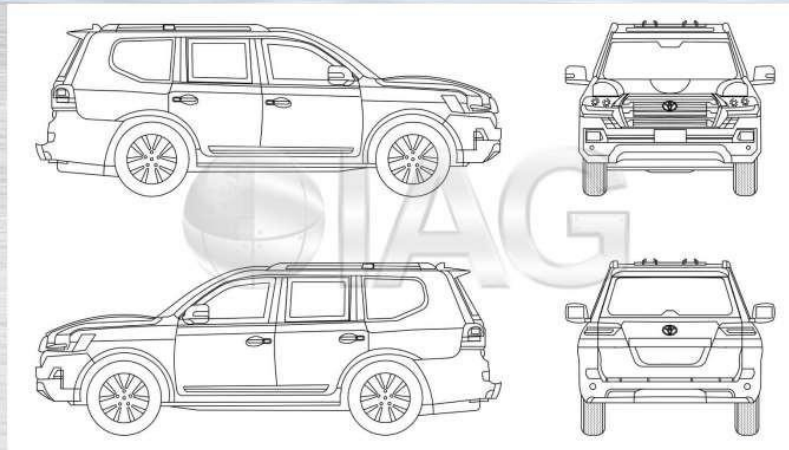


## VEHICLE ARMORING: MAIN BODY



- Smartarmor® Single Piece Armor design for entire length of sidewall
- Firewall armored using large pieces of overlapped ballistic steel to minimize welding points forming significantly stronger armored firewall with no gaps
- Design acts as a roll-cage in case of a vehicle roll over and provides superior blast protection

## VEHICLE ARMORING: OVERVIEW



- Available armoring levels: VPAM BRV2009 VR7, CEN LEVEL B6 / NIJ III armor and CEN B7
- Certified floor blast protection: 2 x DM51 and 2 x DM31 available
- Side Blast certification: 15kg of TNT at 2 meters away

## VEHICLE ARMORING: ENGINE



### ARMOR PROTECTION FOR:

- Both engine wings (fenders)
- Both batteries
- Area behind headlights
- Engine Control Unit (ECU)
- Brake Master Cylinder
- Radiator Protection (optional)

## VEHICLE ARMORING: REAR BULKHEAD



- Design #1 (top left): Armoring directly applied on rear OEM hatch
- Design #2 (top right): Internal ballistic bulkhead installed in front of OEM rear hatch