



LANDCRUISER 78

B7 ARMORED



ABOUT B7 ARMOR

B7 Armored Protection represents the pinnacle of ballistic protection for vehicles, offering unparalleled defense against a wide range of projectiles and threats. This level of armoring exceeds the stringent requirements of B6 protection, providing an even greater safeguard for occupants in high-risk environments.

At the heart of B7 Armored Protection lies a robust combination of cutting-edge materials and advanced engineering techniques. Bulletproof glass, significantly thicker than that employed in B6 vehicles, forms an impenetrable barrier against AK-47 and AR-15 assault rifles. Armored steel plates, meticulously crafted to withstand the impact of high-velocity rounds, reinforce the vehicle's doors, creating an armored capsule that surrounds and protects the occupants.

The benefits of B7 Armored Protection extend beyond mere bullet resistance. These armored vehicles are designed to provide comprehensive protection against a multitude of threats, including:

Explosions: B7 Armored Protection incorporates reinforced underbody panels and other structural enhancements to mitigate the effects of explosive devices.

Shrapnel: Strategic placement of armored panels deflects and absorbs shrapnel fragments, minimizing the risk of injury to occupants.

Ambush Attacks: B7 Armored Vehicles offer run-flat tires that allow for safe evacuation even if the tires are punctured or damaged.



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BALISTIC PROTECTION

MSCA Levels of Ballistic Resistance

NIJ / CEN Standard	Firearm	Caliber	Armor Weight added to vehicle
Hijack Byejack®	 High-power Rifle Protection	9mm FMJ .357 Magnum .44Magnum	120 - 150 Kg
NIJ III CEN BR6 / BR6+	 High-power Rifle Protection	7.62x51 FMJ	400 - 500 Kg
Stanag II CEN BR6/BR7	 High-power Rifle Protection	7.62x39 AP BZ 30-06AP	600 - 700 Kg
NIJ IV+ CEN BR7	 High-power Rifle Protection	7.62x51 AP	750 - 850 Kg
Residential	 High-power Rifle Protection	7.62x51 FMJ 7.62x39 AP BZ 30-06AP 7.62x51 AP	950 - 1250 Kg

B7 Armored Protection stands as an engineering marvel, designed to offer unparalleled defense against an extensive range of firearms, as detailed in the accompanying table. This sophisticated and multi-layered security system goes above and beyond to guarantee the highest level of safety and security for occupants within the vehicle. Whether facing potential threats from multiple angles or sources, the advanced features of B7 Armored Protection provide a robust shield, instilling confidence and tranquility in occupants by assuring them of comprehensive protection against a diverse array of potential dangers.





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PROTECTION DETAILS

VEHICLE DESCRIPTION

Toyota Land Cruiser 78 Hard Top
Engine Type: 4.0L Gasoline, V6 or 4.5 L V8
Output, hp@rpm: 231@5200
Torque, Hm@rpm: 360@3800
Transmission: Manual or Automatic

Opaque Armor (steel):

*The armor is fabricated entirely from welded ballistic-grade steel.

*The interior framework, also composed of ballistic-grade steel, serves to provide overlap and act as bullet catchers while offering supplementary protection to critical areas like doors and windows.

*The vehicle's armoring is meticulously designed to ensure that any projectile, whether traveling in a straight line or at an angle, cannot breach the interior without encountering the armored material. Furthermore, precautions have been taken to minimize the chances of a projectile entering the vehicle's interior due to a ricochet from the armored surfaces.



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PROTECTION DETAILS

Our Our advanced B7 Armored Protection system ensures an unparalleled level of safety for occupants by incorporating comprehensive perimeter armoring. This includes robust protection for key areas such as the roof, glass, firewall, doors, pillars, quarter panels, ballistic overlaps, and bulkhead, among other critical components. Engineered to meet CEN EN-1522 and 1063 level B7 standards, our armoring is specifically designed to withstand NATO 5.56x45mm and 7.62x51mm rounds, providing a formidable defense.

In meticulous detail, we provide B7-level protection for essential elements like doors, pillars, roof, firewall, battery, and electronic control unit (ECU). The floor is blast-protected, capable of withstanding the simultaneous detonation of two DM-51 hand grenades or equivalent explosive devices. To ensure utmost safety, the fuel tank(s) are blast-protected against such detonations.

To further enhance protection, full-length ballistic steel is strategically installed on both sides behind the vehicle's fenders, providing additional safeguarding for the engine compartment. Every window and door opening is overlapped, incorporating built-in bullet catchers in the door window area for an added layer of safety.

Our commitment to both security and aesthetics is evident in the reinforcement of door hinges and mounting points, preventing door sagging and maintaining the structural integrity of the door pillars. All materials used in vehicle construction undergo rigorous testing to meet the specified ballistic protection levels, ensuring uncompromised safety.

In terms of aesthetics, we prioritize preserving the vehicle's original appearance. OEM interior panels are modified as necessary and reinstalled wherever possible, showcasing a dedication to maintaining the vehicle's design. The re-upholstery of all ballistic areas with high-quality materials ensures that safety and style harmoniously coexist in our B7 Armored Protection system.





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PROTECTION DETAILS

Transparent Armor (glass):

The transparent armor used in this configuration meets the stringent CEN EN-1063 B7 ballistic protection standards, boasting a substantial 40mm thickness. This armored glass is meticulously installed in all window areas of the vehicle.

The windshield is a single, seamlessly curved piece of original equipment manufacturer (OEM) shaped ballistic glass.

The front doors also feature OEM-shaped curved ballistic glass, maintaining the vehicle's original design aesthetics.

In the case of rear doors, flat ballistic glass is discreetly placed behind the OEM glass, ensuring both security and discretion.

An anti-spall layer is integrated into the glass, offering protection against glass fragmentation upon impact.

The transparent armor is engineered to withstand multiple impacts, with a capability to withstand three consecutive shots without compromising its integrity.

Notably, this armored glass maintains the highest standards of optical quality, providing exceptional clarity with minimal distortion, thereby offering occupants an unobstructed and safe view of the surroundings.



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PROTECTION DETAILS

Our vehicle is equipped with a highly reliable run-flat tire system that ensures continued mobility in the event of a tire puncture. This system is certified and adheres to the rigorous NATO Finabel A.20.A (20.A.5) standard, underscoring its exceptional performance and durability.

All wheels, including the spare, are integrated with this advanced run-flat technology. In the unfortunate event of a puncture, our run-flat system empowers the vehicle to travel a substantial distance of up to 50 kilometers at a consistent speed of 50 kilometers per hour. This capability provides invaluable peace of mind, allowing occupants to reach safety or a designated service point without the immediate need for tire replacement.

This run-flat tire system not only enhances the vehicle's overall safety but also underscores our commitment to ensuring that our customers can rely on their vehicle's performance even in challenging and unexpected circumstances on the road. It's a critical feature that adds to the resilience and versatility of our vehicle, ensuring it can confidently navigate various terrains and conditions while maintaining operational readiness.

ADDITIONAL UPGRADE

+ The exhaust insert will prevent improvised explosive devices (IEDs) from being introduced into the vehicle's exhaust system, rendering the vehicle immobile or preventing it from accelerating at full power.

+Suspension components were upgraded with a heavy-duty equivalent where necessary to compensate for the additional weight.

