

B7 ARMORED VEHICLE SPECIFICATIONS

ARMOR CONVERSION MODIFICATIONS / ALTERATIONS

- Five sided armoring of driver and passenger compartments to provide protection against 7.62x51 AP Round @ 2,675 fps at zero degree obliquity angle. In accordance with testing procedures utilized by U.S. testing certification procedures.
- Construction design integrates opaque and transparent materials and is structurally designed to with stand and balance structural loads and offers complete 100% protection.
- Floor is fitted with a blast protection to protect occupants against fragmentation from simultaneous detonation of two DM-51 German ordnance hand grenades or equivalent.
- The unique engineering and construction of the armor plate design utilized in the vehicle allows the weight of the door to be transmitted directly onto the modified structure. The design distributes weight in such a way as to allow the use of OEM hinge components without the risk of excess stresses due to the added door weight.
- Vehicle's armor plates are stitch-welded using high-intensity MIG welders. The above process ensures the structural integrity is uncompromised by thermal and chemical variations of the material.
- The interior frame, constructed of ballistic grade steel, provides overlap and backup protection for the large-surface principal impact areas such as the doors and windows. It also reinforces the structural integrity of the pillars and other areas that are typically ignored or poorly armored by other manufacturers.
- Vehicle armoring 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.

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 qualities:
- Glass thickness: Rear bulk head 44 mm, Passenger doors with gun ports 44 mm, Quarter panels 44 mm, front seat doors and windshield 44 mm
- Anti-spall shield protecting against shattering glass
- Multiple impact protection - Finest optical quality, Minimal distortion
- No de-lamination
- No discoloration from UV rays

DOORS

- Armor overlap at all doors to prevent penetration through door posts and pillars.
- Door pillars and hinges reinforced for maximum strength retention.

- Heavy duty door straps and retainers

SECURITY FEATURES AND ACCESSORIES

- Smoke screen system shall be installed.
- Run flat devices fitted in vehicle's tires. (Including spares)
- Encased explosion proof steel-case fuel tank protection.
- Large door frame overlaps with anti spall/ricochet barriers.
- Stainless steel mesh installed in tail pipe to prevent insertion of foreign objects.
- Brake system shall accommodate after armoring mass of vehicle to prevent excessive brake fade or failure at high speed and performance degradation will not exceed 15% after armoring.
- Drive shaft and couplings (attachment points) and related infrastructure reinforced as necessary to prevent vibration and stress of added weight of armor.
- Suspension system and related infrastructure components reinforced as necessary to compensate for additional weight.
- Batteries armor protected
- Electrical Supply components: Capability to install additional wiring in passenger compartment and electrical supply components and communication gear.
- ECM (Electronic Control Module/black box) armor protected.
- Vehicles electrical system (alternator) engine cooling system (radiator/ oil cooler/transmission cooler) and power steering upgraded as necessary to accommodate additional load.
- Concealed gun ports in rear passenger doors in the window area (2)*
- Concealed gun ports in the rear quarter panel (2)*
- Swing door with view glass and (2) gun ports installed at rear of passenger compartment
- All manuals and written information provided by vehicle manufacturer in English.

ELECTRICAL

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

INTERIOR

- All original OEM interior panels and trim will be resized or modified and re-installed wherever possible to obtain as close to an original look as possible

WARRANTY

- The armored vehicle manufacturer warranties any armor related items installed, as well as conversion related custom workmanship for the period of 3 years, or 60,000 km, whichever occurs first.

BALLISTIC PROTECTION LEVEL DETAILS

- o The following charts represent the ballistic protection level B6:

OPAQUE ARMOR, PASSENGER COMPARTMENT ROOF AND 4 SIDES ONLY:

Weapon	Caliber	Ammunition	Velocity Rifle
Rifle	7.62 x 51 mm	AP	2,750 fps
Rifle	7.62 x 51 mm	M80 Nato Ball	2,750 fps
M-16	7.62 x 45 mm	M855 Ball	3,100 fps
AK-47	7.62 x 39 mm	M-1943	2,400 fps
Sub-machine-gun	9 x 19 mm	LCJJ	1,400 fps
Tokorev	7.62 x 25 mm	LCSJ	1,600 fps
Hand Gun	44 Magnum	LWC	1,443 fps

TRANSPARENT ARMOR:

Weapon	Caliber	Ammunition	Velocity Rifle
Rifle	7.62 x 51 mm	AP	2,750 fps
Rifle	7.62 x 51 mm	M80 Nato Ball	2,750 fps
M-16	7.62 x 45 mm	M855 Ball	3,100 fps
AK-47	7.62 x 39 mm	M-1943	2,400 fps
Sub-machine-gun	9 x 19 mm	LCJJ	1,400 fps
Tokorev	7.62 x 25 mm	LCSJ	1,600 fps
Hand Gun	44 Magnum	LWC	1,443 fps

Floor of passenger compartment is protected to shield against fragmentation from 2(two) DM-51 German ordnance hand grenades or equivalent.