

APC – LC79 – Vehicle Specification

GENERAL: Model: Toyota LC79; Country of Origin: Japan

DIMENSIONS: Length: 5120 mm; Width: 1795 mm; Height: 2200 mm; Wheelbase: 3180 mm; Wheel Track (Front/Rear): 1420 / 1515; Min Ground Clearance: 255; Min. Turning Radius: 5.9;

PERFORMANCE: Wheel Driver: 4x4; Max Speed (on road) 120 kmph; Gradeability: 60%; Approach angle (degree) 49; Departure angle (degree) 33; No of Fuel Tank / Capacity: 2 / 90; Cruising range (on road) (km): 800; Forging depth (mm) 500;

WEIGHTS (kg): GVW: 5000; Curb Weight: 4305; Pay load: 695; GVW for OEM Chassis (kg): 3200;

ENGINE: Make: Toyota; Model 1GR-FE; Fuel Type: Petrol; Displacement (CC): 3965; Cylinders: 6V; Max Power (hp@rpm): 228/5200; Max Torque: (N.m @ rpm): 360@3800; Fuel system: EFI;

GEARBOX: Make: Toyota; Model: H150F; Type: Manual; No of Shifts: 1/5;

ELECTRICAL EQUIPMENT: Battery; Qty / Capacity (Ah): 1/72A; Battery Dimensions (LxWxH) (mm): 517 x 189 x 240; TYRES (Present): Size: 285 / 75R16; Load Index: 114; Speed Symbol: S; Tread Pattern: On / Off Road; CAPACITIES (lt): Engine Oil: 5.7; Gearbox Oil: 2.7; Differential Oil 2.5; Coolant: 10.9;

ARMOR PROTECTION: Ballistic level protection: BR6; Runflat: Composite; V-hull: No.

Remarks: Specifications mentioned are correct, but only for reference. Any variations in specifications are likely

Ballistic Specifications

APC made to BR6 level are Armoured 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.

Calibre	Ammunition and projectile			Test conditions	
	Type	Mass [g]	Manufacturer Type	shot distance [m]	Bullet velocity [m/s]
7,62 x 39	FMJ/PB/FeC	8,0 ± 0,1 core 3,6	PS cold hardened	10 + 0.5	720 ± 10
223 Rem.	FMJ/PB/SCP	4,0 ± 0,1	MEN, SS 109	10 + 0.5	950 ± 10
308 Win.	FMJ/PB/SC	9,55 ± 0,1	MEN, DM 111	10 + 0.5	830 ± 10

Armoring

All four sides of the passenger compartment are protected using high-quality armour 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. The roof of the vehicle is protected against the same ammunition at 45° incidence.

Opaque Areas:

All opaque areas including the roof are protected against the following and all lesser weapons/ammunitions at 90° impact angle (45° for the roof) in accordance with the above specifications.

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

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

Armoring design:

- The armoring is a complete self-supporting structure grafted onto the base vehicle chassis in place of the original bodywork creating a unitary protection cell for the passengers.
- The main armour shell provides overlap for all the secondary armour components such as the doors and the windows, roof hatches, gun-ports etc.
- Heavy-duty hinges for all the opening elements (doors, hatches).
- Hinges with built-in door-stop.
- Fuel-tanks protected with steel armour-plates.
- Full engine compartment protection, including bonnet.
- All welded joints produced using a special welding technique limiting the heat-transfer to the armour steel around the weld, and doubled-up with non-heat-affected overlaps.

Test Reports/ Product Liability

All materials used in the production of the cabin were successfully tested against ballistic projectiles by independent laboratories. Test reports can be presented upon request or during a factory visit. The armoring of the vehicle provides protection against a wide range of projectiles and explosives. However, complete protection is not possible for reasons of design and modern military weapon technology.

Standard equipment:

- Rear-view camera
- Side and rear-facing gun-ports
- Front Roof-hatch
- Fuel-tank protection
- Upgraded suspension to cope with the additional weight due to armoring
- Run-flat systems on all 5 wheels
- Rear crew compartment manual air-cooler



Vehicle Specifications

Base vehicle: Toyota Land Cruiser 70-Series, 4WD, LHD, Brand New

Model year: 2015 / 2016

Armouring: 2017 / 2018 / 2019

Engine model: 4.0L V6 petrol EFI

VVTi Output: 228HP, 36.7mKg

Transmission: 5-speed manual

Seats: Front: 1+2, Rear: 6

Titled: no

Body Type: 3-door Armoured Personnel Carrier

Grade: BR6

Interior Features:

- Front Air Conditioner and heater
- Crew-Compartment Air Conditioner
- Rear-View Camera Monitor for ease of maneuvering
- Crew-Compartment Overhead Lighting
- AM/FM Radio-cassette
- Fabric/Vinyl Seats
- 4-Spoke Steering Wheel

Exterior Features:

- 16 Inch Steel Wheels
- Front and Rear Heavy-Duty Bumpers
- Front and Rear Tow-hooks
- 4 Lift-hooks
- Rear Door-Mounted Spare Wheel



Note: All pictures in this proposal are for illustration purposes only and will not be contractually binding. Actual vehicles may differ in colour or equipment according to the actual specifications.

