



# AS 6800

## ARMoured SOLUTIONS

### **Built by Professionals, for Professionals**

- Armoured Solutions is a premier manufacturing company located in the Emirate of Abu Dhabi in the United Arab Emirates.
- Our Tactical and Commercial Armoured Vehicles are designed and built by professionals, for professionals.
- The company has used its 30+ years of experience in the defence sector to supply products and services that are able to meet the challenges of a harsh and unforgiving climate and operational environment.



# ***LIGHT WEIGHT APC***

## ***AS 6800***





OVERVIEW

The AS 6800 Light Weight Armoured Personnel Carrier – LWAPC – is engineered to be compatible with multiple weapon systems. These can be mounted on the top of the driver crew or the troop's compartment in a bespoke fashion to maximise the vehicle's effectiveness in combat situations. A variety of light and medium calibre weapons, Remote Weapon Systems (RWSs), Automatic Grenade Launches (AGLs) or Anti Tank Guided Missiles (ATGMs) can be fitted.

LAYOUT

The layout of the AS 6800 is conventional with the engine at the front, the crew cabin at the middle and the cargo or infantry soldier's compartment at the rear. The vehicle is based on the Ford F550 chassis.

Layout			
CREW SEATS STANDARD	2+6		
CREW SEATS OPTIONAL	2+8		
Doors	3		
Hatch-Main	Above of cargo area		Opening from inside
Hatch-safety	Above of cargo area		Opening from inside and outside

Armor	
Hull/body standard	B6 ballistic protection and 2x DM51 mine floor protection. Validation and testing according to EN1522 FB6 (ballistic certifications can be supplied for relevant materials)
Hull/body optional Transparent armor	STANAG 4569 Level I AGP-STANAG 4569 AEP-55 LEVEL I 7,62x51, DM41, 5.56x45, SS 109, 5.56x45, M193 FSP 20 mm 24 hours soak at -30 & +52 °C (Alternative Multi-Hit at 0° NATO for KE Single Hit 0° NATO for FSP)
Spall liner	10 mm v50 Spall-liner (the spall-liner contributes to fragmentation protection even in an over-match situation caused by hollow charges, such as RPGs or IEDs by reducing the spall conus)
Flooring	25mm Pro Tech Blast matt flooring (Blast and Anti-vibration mitigation, Anti-slip, Flame protected to FMVSS 302

Weapon systems	
RWS	
AGL	
ATGM	



Dimensions	
Mass	
Payload	
Length	6000 mm
Width	2800 mm
Wheelbase	3360 mm
Ground clearance	140 mm
Height	2600 mm
Approach angle	40 degrees (approx.)
Departure angle	34 degrees (approx.)





**Automotive system**

Engine	6.7L turbo Diesel V8	
Power Output	475 bhp @ 2800 rpm	
Engine Torque.	1050 lb. ft @1800 rpm	
Fuel Tank capacity	Twin tank 256L	
Drive System	4x4	
Transmission	10 speed automatic with selectable drive modes (Normal, Tow, Eco and Sand)	
Chassis	Based on Ford F550	
Suspension front.	Upgraded double wishbone with oil damper, coil spring and stabilizer bar	
Suspension rear	Upgraded heavy duty multi-leaf spring, oil damper	
Brakes front	Upgraded disk brakes ABS	
Brakes rear	Upgraded disk brakes ABS	
Operational range	600 km terrain dependant	
Maximum speed	Road	***KM/Hour
	Off Road	Terrain Dependant
Steering system	Power assisted front wheel	
	<b>Tyres</b>	335/80R20 MPT81. CONTINENTAL Severe Duty Tires
	<b>Runflats</b>	Bead lock run flat system (UK) Dynamic Run Flat made of 3 antiballistic imperishable composite segments
	<b>Rims</b>	2 Pieces steel Heavy Duty (upgrade optional)
Spare wheel	Standard, provided as a made set including Tyres, Runflats and Rims	







Seating systems		
Driver/Command	2 x Driver/commander (104034 - A TEK4H + 100mm HR+ 4 Point Retractor Harness + 160mm SR	
Crew	6 x Light weight crew (101031-E Protek Light 2 Space Claim) 4 Point Harness (with emergency seatbelt cutters)	

Soldier safe systems (SSS)		
Tyre inflation - semi-auto	4 x Pod inflation system 12V 2 cyl v-compressor, Effective air flow: 160 litres/min at 1 bar back pressure	
Fire suppression	Engine bay:	2,25kg 3M Novec 1230 extinguishant 1 Nozzle HD/Fire Wire
	Under body:	4 ltr 8 Nozzle twin AFFF (Aqueous Film Forming Foam)
	Crew compartment:	2 x Sensors crew compartment (High speed UVIR2 detectors)
	Sensors:	2 x Sensors crew compartment (High speed UVIR2 detectors)
	Handheld:	2kg ZERO 360 Novec™ 1230 Gas extinguishant
	Activation:	Central control box dual military specification

Driver Enhancement systems		
Cameras	2x cameras facing front and rear with monitor and recording	



Communications systems	
Inter-vehicle	8 x headsets Driver/commander/crew headset intercom system with crew compartment speaker
Two-way intercom	Master Intercom Interface Unit, 2x External Mics, 1x Internal Mics, 1x Internal Speaker, 1x External Speaker Users Power/Volume/PTT Control Panel 12V Power Lead
Public Address and Siren	Public address system & Siren system with speaker 12v

Illumination systems	
Headlights	Upgraded LED
Taillights	Upgraded LED
Spotlights	2x10 Hight Flex LED (8 degree) Beam angle 225,000 candela, Max beam distance 3113 ft
Fog lights	6 x 4 High Flex LED Fog lights
Infrared Lights	Optional
Internal crew lights	two colour (red/white) LED. Infrared is optional
External light enhancement	2 colour LED strobe lights

Power Management Systems	
Engine Battery	12 V Engine Bay
Auxiliary	2 x 12 V situated in the crew system area
Voltage Supply	12V DC conversion provision for auxiliary systems
Isolation	Ability to isolate auxiliary power system from engine battery system when engine is cut
Isolation	Battery master switch





Climate Control systems	
Driver and Commander	Cockpit AC System 12V Compressor, Evaporator, Condenser, Control Panel
Crew System	12V system for crew comfort TM21 Compressor, Evaporator, Condenser, and Control Panel

Recovery Systems	
Winch	2000 lbs. 24 V electrical system 16mm x 24 m Synthetic rope
Recovery Kit	1 x 10T/20M Winch Extension Strap 1 x 10T/5M Tree Trunk Protector 3 x 5.75T Rated Bow Shackle 1 x 10T Rated Snatch Block 1 x Recovery Blanket 1 x Recovery Gloves - (Large/Extra Large) 1 x Hook Strap 1 x Recovery Bag – Large
Towing Accessibility	A frame (towing) rating 10,000 KG 2 x Sand Ladders

Vehicle tool kit	
Tool Kit Standard	Jack and Handle NATO Standard tow Hook Tool Roll Fuel Funnel 2 x 20 L Jerry cans Shovel Pic Axe



