



CIVILIAN ARMoured VEHICLE BROCHURE



SCAN ME



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ABOUT US

Buckler Land Systems (BLS) is a defence solutions provider with specialisation in the design and manufacturing of a wide variety of Civilian, Commercial and Military Armoured Vehicles.

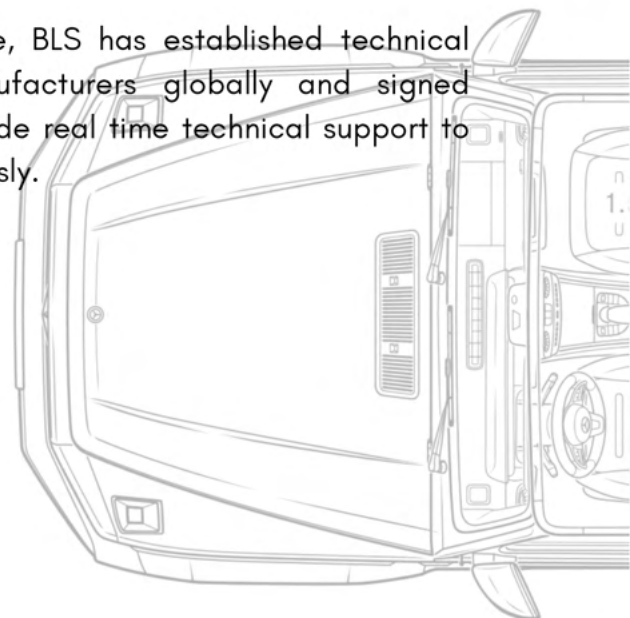
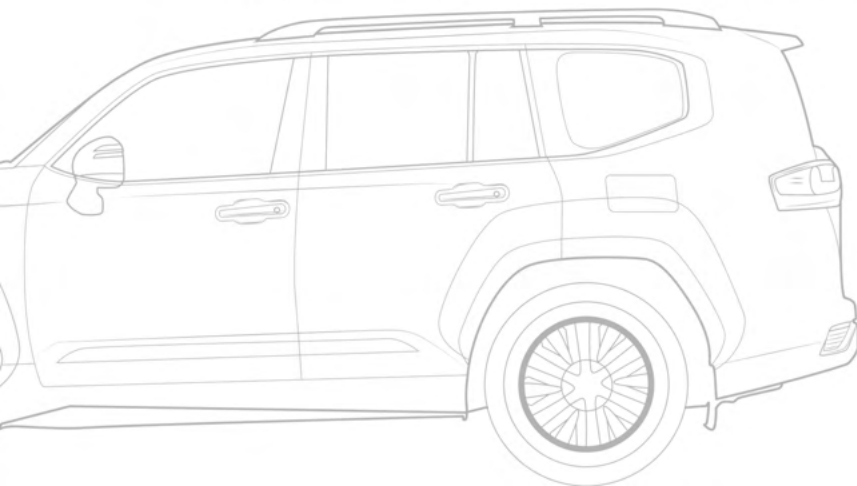
We have also established an operational branch office in the United Kingdom for the coordination of our supply chain and technical partnerships.

We are a member of the Defence Industries Association of Nigeria (DIAN) and a member of the Association of Security Consultants UK. Buckler Systems has a Joint Venture working relationship with the Defence Industries Corporation of Nigeria (DICON) to facilitate the joint production of Armoured Vehicles, Body Armour and other security equipment for the Nigerian Armed Forces.

We have a combined technical experience of over 3 decades in the design, prototyping and manufacturing of civilian and military armoured vehicles. Some of our areas of expertise include the following:

- Armouring of Civilian Vehicles; Armoured SUVs such as the Armoured Toyota Landcruiser, Armoured Mercedes Benz G-Wagon, etc. and Armoured Sedan like the Armoured Mercedes Benz S600 & Maybach etc.
- Design, Development and Manufacturing of Commercial Armoured Vehicles; Cash-In-Transit vehicles, Bullion Trucks for the movement of cash and valuables, Mobile Banks, and ATMs etc.
- Repair, Refurbishment and Upgrade of Armoured Vehicles
- Design, Prototyping and Manufacturing of Armoured Personnel Carriers and other security vehicles for the Police and Military.
- Armoured Security Check post/Cabins
- Ballistic Helmets and Vests for Civilian, Police and Military applications

To enable us create long term value for our clientele, BLS has established technical partnerships with relevant Original Equipment Manufacturers globally and signed representation agreements which authorises us to provide real time technical support to our customers and also execute warranty claims seamlessly.



MESSAGE FROM THE CEO

At Buckler Land Systems, our mission is straightforward: to protect lives without compromising.

In an unpredictable world, we design and deliver civilian armoured vehicles that provide trusted ballistic protection, advanced mobility, and discreet confidence to those who need it most.

Every Buckler Armoured Vehicle is meticulously crafted with precision engineering, using certified materials. Through-life support is tailored to your environment and mission, ensuring your safety. Whether for personal security, diplomatic transport, or corporate risk management, our commitment to quality, integrity, and your safety guarantees your security.

Buckler Land Systems is fully authorised and certified by the Ministry of Defence and other relevant government agencies of the Federal Republic of Nigeria to operate as an armoured vehicle manufacturer in Nigeria. This knowledge instills confidence and peace of mind in our esteemed clients, knowing that they are entrusting us with a sensitive and personal task: providing them with a vehicle that will protect their lives and those of their loved ones.

Thank you for considering Buckler Land Systems. We look forward to earning your trust.



OLATUNJI A. OMOTORIOGUN
CHIEF EXECUTIVE OFFICER



[LinkedIn](#)

OUR TEAM

We have been involved in several unique designs and manufacturing of Civilian Armoured Vehicles, Military vehicles, and Cash-In-Transit vehicles. Over several years of technology and skills transfer by our expat staff to our skilled Nigerian technical team, our team now comprises of experts who are mostly Nigerian citizens and a few expatriates.

BLS brings over 30 years of combined experience in armouring and security vehicle production.

➤ CHIEF EXECUTIVE OFFICER - PROFILE

Buckler Land Systems Limited is led by Olatunji **Ayobami** Omotoriogun. Ayobami, is a seasoned Military Vehicle Engineer, Counterterrorism specialist and Business leader. He has a wealth of experience in armoured vehicle design, prototyping, testing and production. He is a Chevening Alumnus and graduate of Military Vehicle Technology and Counterterrorism from the prestigious Cranfield University/Defence Academy of the United Kingdom.

HIGHLIGHTS OF EXPERTISE

- Armoured Vehicle Conceptualisation, Design, Prototyping and Production
- Armoured Vehicle Test and Evaluation
- Armoured Vehicle Plant Turnkey/EPC Contracts
- Military Vehicle Technology
- Counterterrorism

OUR FACILITY

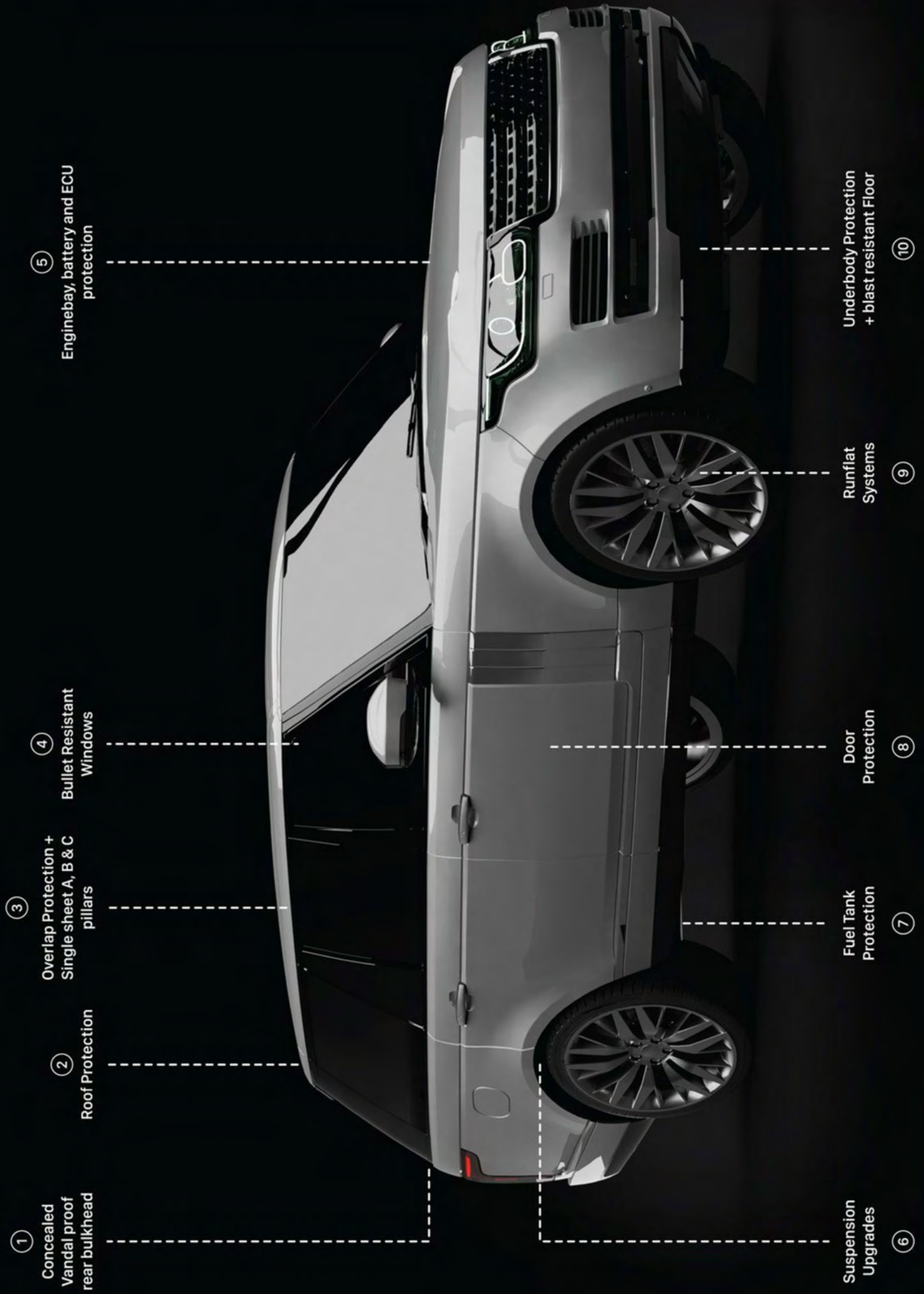
All our armoured vehicles are manufactured at our fully equipped 180,000 square foot Industrial Complex located in Lagos, Nigeria.

This facility was commissioned by the Ministry of Defence of the Federal Republic of Nigeria in 2023.

Our facility provides us with the flexibility to scale our production output as required with a maximum production run of about 200 vehicles a batch.

With continuous reinvestment in state-of-the-art tools and equipment, Buckler Land Systems has established itself as a leader in the production of Armoured Vehicles and other Security equipment.

Among other cutting edge technologically advanced tools are a 2kw, 6m x 2m CNC Fibre Laser Machine, a 3m CNC Hydraulic Press, 3D Printers etc.



CIVILIAN VEHICLE ARMOURING

In today's increasingly unpredictable security climate, the demand for civilian armoured vehicles has grown significantly. No longer reserved for military convoys or high-profile dignitaries, armoured civilian vehicles are now used by private individuals, corporate executives, diplomats, humanitarian workers, and journalists—particularly in regions with elevated risks of violence, kidnapping, or terrorism.

Civilian Armoured Vehicles represents a critical line of defense in environments where personal safety cannot be taken for granted. Whether protecting a family, a CEO, or an aid worker, these vehicles provide peace of mind without sacrificing mobility or discretion. As technology evolves, armoured vehicles are becoming more efficient, affordable, and essential—offering a silent shield in a noisy world.

WHAT IS CIVILIAN VEHICLE ARMOURING?

Civilian vehicle armouring is the process of reinforcing a standard passenger vehicle to provide protection against ballistic threats, explosions, and forced entry. The goal is to preserve the vehicle's original appearance and comfort while discreetly integrating life-saving defensive measures.

KEY FEATURES OF ARMoured CIVILIAN VEHICLE

- **Ballistic Protection:** High-strength ballistic steel and synthetic materials such as Kevlar or Dyneema are installed throughout the vehicle to shield occupants from gunfire. Armouring typically meets international standards like NIJ (National Institute of Justice) or VPAM (German Association of Testing Institutions for Attack-Resistant Materials).
- **Bulletproof Glass:** Multi-layered polycarbonate and glass composites are used to replace standard windows, offering protection against small arms fire, including AK-47s and handguns, without compromising visibility.
- **Blast Resistance:** Floors are reinforced with blast-resistant materials to mitigate the effects of landmines or improvised explosive devices (IEDs). Run-flat tires enable the vehicle to escape even when punctured or deflated.
- **Discreet Design:** Modern armouring is designed to be covert. Vehicles maintain their factory look, making them less likely to attract unwanted attention or provoke aggression.
- **Reinforced Suspension and Braking Systems** since armouring adds weight to the vehicle, suspension, brakes, and sometimes engines are upgraded to handle the additional load and maintain performance.

TYPES OF ARMoured CIVILIAN VEHICLES

- **Luxury Sedans & SUVs** – For executives, government officials, or wealthy individuals.
- **Cash-in-Transit Vehicles** – Used by banks and logistics firms to securely transport money.
- **NGO/Field Vehicles** – Designed for personnel operating in conflict or disaster zones.
- **Customised Fleet Vehicles** – For companies needing uniform protection for multiple staff.

BALLISTIC PROTECTION LEVEL

Class	Weapon type	BULLET				Test conditions		
		Caliber	Shape	Structure	Weight (g)	Shooting dist. (m)	Velocity (m/s)	
FB1	Rifle	 22 LR 	Round nose	• lead	2.6	10	360	
FB2	Automatic pistol	 9 mm Luger 	Round nose	• full steel jacket • soft core (lead)	8	5	400	
FB3	Hand gun	 357 Magnum 	Coned bullet	• full steel jacket • soft core (lead)	10.2	5	430	
FB4	Hand gun	 44 Rem. Magnum 	flat nose	• full steel jacket • soft core (lead)	15.6	5	440	
*AK47	Kalachnikov	 7.62 x 39 	pointed	• full steel jacket • soft core (lead) (niv. 2)	8	10	700	
FB5	Assault rifle	 5.56 x 45 	pointed	• copper jacket • steel core • steel penetrator	4	10	950	
FB6	Rifle	 7.62 x 51 	pointed	• full metal jacket • soft core (lead)	9.5	10	830	
FB7	Rifle	 7.62 x 51 	pointed	• copper jacket • steel hard core	9.8	10	820	

EN 1063, also known as CEN 1063, is a European standard (CEN stands for European Committee for Standardization) that specifies requirements and test methods for measuring the bullet-resistance of glass and glass-plastic composites. It's a crucial standard for evaluating the protective strength of bullet-resistant glazing, often used in conjunction with EN 1522 for armored vehicles and structures.

The standard defines various threat levels (BR1-BR7 for small arms, SG1-SG2 for shotguns) based on the type and velocity of ammunition it can withstand. When CEN 1063 is applied to civilian armoured vehicles (CAVs), it becomes a benchmark for certifying the ballistic resistance of the vehicle's transparent armour – meaning the windscreen, side windows, and rear glass.

The purpose of the standard CEN1063 in CAVs are

- Civilian armoured vehicles use multi-layer ballistic glazing (laminated glass + polycarbonate or other plastics) to stop handgun, rifle, or shotgun rounds without compromising visibility.
- CEN 1063 provides independent, standardized testing so manufacturers can prove the glass meets a specific ballistic protection level.

The test method of CEN1063 in relation to Civilian Armoured Vehicle is

- Glass panels identical to those fitted in the vehicle are removed from production, framed as they would be in the vehicle, and tested at an accredited ballistic lab.
- Shooting is done at 90° from 5 m, using the ammunition type and velocity defined for the desired class.
- Three shots in a triangular pattern are fired into each test sample.
- Pass: No penetration of bullet or fragments through to the interior side (witness screen intact).

ARMoured TOYOTA LANDCRUISER



UNMATCHED PROTECTION, ULTIMATE PRESTIGE

The VPAM 7 Armoured Toyota Land Cruiser 300 represents the pinnacle of civilian and VIP protection, combining legendary off-road performance with military-grade ballistic security. Engineered for high-risk environments, this luxury SUV is ideal for diplomatic missions, corporate executives, security escorts, and private individuals requiring uncompromising protection in volatile regions.

Certified to VPAM BRV 2009 VR7 (the German standard for bullet-resistant vehicles), this armoured Land Cruiser withstands threats from high-powered rifles including 7.62x51mm NATO rounds. The certification also covers protection from lateral blasts and explosive fragmentation as defined by ERV 2010, ensuring survivability against a wide array of threats.

KEY FEATURES

1. Armour & Protection

- Ballistic steel and composite armor throughout the cabin
- Multi-layered, bullet-resistant glass (VPAM 7-rated)
- Reinforced roof and floor with underbody blast protection
- Overlap system at all doors and pillars to prevent bullet penetration
- Run-flat tyre system (up to 80 km after deflation)
- Armoured fuel tank and battery casing
- Optional mine protection and blast seats

2. Platform

- Base Vehicle: Toyota Land Cruiser 300 Series (VX, GR Sport, or Sahara trims available)
- Engine Options: 3.3L twin-turbo diesel V6 or 3.5L twin-turbo petrol V6
- Transmission: 10-speed automatic with full-time 4WD
- Suspension: Upgraded heavy-duty suspension system to compensate for additional weight without compromising comfort or off-road agility

3. Interior & Comfort

- Luxurious leather upholstery and climate-controlled seating
- Touchscreen infotainment system with navigation
- Rear entertainment package (optional)
- Privacy glass and curtains for discreet travel
- Intercom and PA system (for secure communication)
- Optional fire suppression system and emergency escape hatch

TECHNICAL SPECIFICATIONS

- Armouring Level: VPAM VR7
- Curb Weight: Approx. 4,800 – 5,200 kg (depending on configuration)
- Payload Capacity: Approx. 500 – 800 kg
- Seating Capacity: Up to 5 occupants
- Top Speed (governed): ~160 km/h
- Fuel Tank: Armoured, 110L capacity

ARMoured TOYOTA LANDCRUISER



APPLICATIONS

- Diplomatic convoy escort
- Government and military personnel transport
- High-net-worth individual (HNWI) security
- Executive protection in high-threat regions
- Corporate or NGO operations in unstable environments

COMPLIANCE AND TESTING

- Independently tested and certified in accordance with VPAM BRV 2009 and ERV 2010 standards
- Built by OEM-approved armouring specialists
- Maintains original Toyota warranty (partial, depending on armouring provider)

CONCLUSION

The VPAM 7 Armoured Toyota Land Cruiser 300 is not just a vehicle—it is a mobile fortress on wheels, engineered for survivability, reliability, and comfort. Whether navigating rugged terrain or hostile urban environments, it guarantees secure mobility without drawing unwanted attention.



ARMoured MERCEDES G-CLASS



ELITE PROTECTION MEETS ICONIC LUXURY

The VPAM 7 Armoured Mercedes-Benz G-Wagon is the ultimate fusion of timeless design, high-performance engineering, and world-class ballistic protection. Built for heads of state, top executives, and high-risk operatives, this armoured SUV offers superior survivability in the world's most volatile environments—all while maintaining the unmistakable prestige of the G-Class.

This vehicle is independently tested and certified to VPAM BRV 2009 VR7—one of the most stringent European standards for armoured vehicles. It provides protection against 7.62x51mm NATO rifle rounds, armor-piercing ammunition, and explosive fragments, ensuring the highest level of occupant safety.

KEY FEATURES

1. Armour & Protection

- Certified VPAM 7 multi-layer ballistic steel and composite armor
- Bullet-resistant glass with VPAM 7 rating, anti-spall inner layer
- Roof and underbody blast protection (ERV 2010 compliant)
- Door overlap and reinforced hinges for blast and bullet resistance
- Run-flat tyre inserts for safe escape even after deflation
- Fuel tank, battery, and ECU armoring

- Optional mine protection and roof escape hatch

2. Performance & Platform

- Base Model: Mercedes-Benz G63 AMG or G500
- Engine Options:
 - G63 AMG: 4.0L Bi-Turbo V8 (577 hp, 850 Nm torque)
 - G500: 4.0L V8 (416 hp)
- Drivetrain: All-wheel drive with 9-speed automatic transmission
- Suspension: Upgraded heavy-duty adaptive suspension to handle added weight

3. Interior & Technology

- Luxurious Nappa leather seating with heated/ventilated options
- Advanced infotainment with 12.3-inch digital displays
- Burmester® surround sound system (optional)
- Rear-seat executive configuration available
- Intercom system and external PA
- Emergency lighting, siren, and surveillance package (optional)

TECHNICAL SPECIFICATIONS

- Ballistic Rating: VPAM BRV 2009 VR7 / ERV 2010
- Curb Weight: Approx. 4,800–5,300 kg (depending on configuration)
- Payload Capacity: Up to 800 kg
- Top Speed (governed): ~160 km/h
- Fuel Tank Capacity: 100L (armoured)
- Occupancy: 4–5 passengers

ARMoured MERCEDES G-CLASS



APPLICATIONS

- Presidential and diplomatic convoys
- Executive and VIP protection
- High-threat environment missions
- Government security operations
- Luxury armoured fleet for private clients

COMPLIANCE & ENGINEERING

- Built by certified armoured specialists using OEM-grade parts
- Rigorously tested for performance, durability, and ballistic integrity
- Compliant with VPAM BRV 2009 and ERV 2010 standards
- Maintains select Mercedes-Benz factory features and warranty (varies by armoring provider)

CONCLUSION

The VPAM 7 Armoured Mercedes-Benz G-Wagon redefines the meaning of secure mobility—delivering unmatched protection in a world-class package. It is the vehicle of choice for those who require absolute confidence in their protection without compromising on performance, style, or status.



ARMoured CADILLAC ESCALADE



AMERICAN GRANDEUR. EUROPEAN-STANDARD PROTECTION.

The VPAM 7 Armoured Cadillac Escalade combines bold American luxury with elite European ballistic protection, making it the ultimate secure transport solution for government dignitaries, VIPs, and corporate executives. Built for those who demand presence, prestige, and protection, this SUV offers uncompromised comfort while ensuring total security against advanced ballistic and explosive threats.

Certified to VPAM BRV 2009 VR7, the Escalade withstands high-caliber threats, including 7.62x51mm NATO rifle rounds, armor-piercing ammunition, and fragments from improvised explosive devices (IEDs), as per ERV 2010. This rating is one of the most respected European standards for armoured vehicle integrity and survivability.

KEY FEATURES

1. Armour & Security

- All-around VPAM 7-level ballistic steel and composite armor
- Multi-layered bullet-resistant glass (VPAM 7, with anti-spall protection)
- Roof and floor blast protection against hand grenades and mines
- Armoured overlap system on all doors and pillars to eliminate weak points
- Run-flat tyre system rated for high-speed escape after deflation
- Armoured fuel tank, battery, and electronic control unit (ECU)

2. Base Platform & Performance

- Chassis: Cadillac Escalade ESV (extended version for greater space and payload)
- Engine: 6.2L V8 (420 hp) or 3.0L Duramax® turbo diesel (277 hp)
- Transmission: 10-speed automatic, 4WD
- Suspension: Custom-tuned heavy-duty suspension system for armoured payload

3. Interior Luxury & Electronics

- Hand-stitched leather upholstery with heated/ventilated seats
- Rear executive seating with optional partition and climate zones
- OLED curved display (38" diagonal) with navigation and camera systems
- Enhanced noise dampening for a quiet, private ride
- Optional satellite phone, intercom, and night vision camera
- Emergency siren, PA system, and smoke screen (optional for tactical variants)

TECHNICAL SPECIFICATIONS

- Armouring Level: VPAM BRV 2009 VR7 / ERV 2010
- Curb Weight: ~5,200-5,600 kg (varies by configuration)
- Seating Capacity: Up to 7 passengers
- Top Speed (governed): ~160 km/h
- Fuel Tank: Armoured, 90L capacity
- Payload Capacity: ~500-800 kg

ARMoured CADILLAC ESCALADE



APPLICATIONS

- Presidential and high-level government transport
- Diplomatic missions in conflict-prone zones
- Executive protection for high-net-worth individuals
- Secure VIP travel and family protection
- Mobile command or surveillance platform (optional outfitting)

CERTIFICATIONS & BUILD QUALITY

- Ballistic testing conducted per VPAM BRV 2009 and ERV 2010 standards
- Manufactured by certified armouring specialists using OEM-grade parts
- Retains key Cadillac luxury features with seamless integration
- Warranty and service support available (varies by armouring provider)

CONCLUSION

The VPAM 7 Armoured Cadillac Escalade is not just a vehicle—it's a statement of strength, status, and security. It offers unmatched comfort and command presence while delivering maximum protection to those whose lives depend on it. Whether traversing high-risk territories or arriving in unmatched style, the Escalade ensures your safety is never compromised.



ARMoured LEXUS LX600



EXECUTIVE COMFORT. MILITARY-GRADE SECURITY.

The VPAM 7 Armoured Lexus LX600 Ultra Luxury is the epitome of discreet elite protection. Combining the serene elegance of Lexus with industry-leading ballistic engineering, it is designed for presidents, royalty, executives, and other high-value individuals who demand first-class comfort with uncompromised security.

Built on Lexus' flagship SUV platform, this armoured variant is precision-upgraded to resist high-powered ballistic and explosive threats—making it one of the most secure luxury vehicles on the road today.

This armoured Lexus LX600 is certified to VPAM BRV 2009 VR7, the rigorous German standard for ballistic resistance. It provides reliable protection against:

- 7.62x51mm NATO rounds
- Armor-piercing ammunition
- Explosive fragments, grenades, and blast overpressure (ERV 2010 compliant)

KEY FEATURES

1. Armour & Security Package

- Full VPAM 7 ballistic steel and composite armor shell
- Multi-layered VPAM 7-certified ballistic glass with anti-spall layer
- Roof and underbody protection against hand grenades and light explosives

- Overlap protection at door seams and critical joints
- Run-flat tyre system rated for high-speed escape
- Armoured battery and ECU compartments
- Optional blast seats, escape hatch, and oxygen supply system

2. Powertrain & Chassis

- Engine: 3.5L Twin-Turbocharged V6 (409 hp, 650 Nm torque)
- Transmission: 10-speed automatic with full-time 4WD
- Chassis: Reinforced ladder-frame architecture
- Suspension: Heavy-duty, armouring-calibrated suspension and upgraded brakes
- Fuel Tank: Armoured, 110L capacity

3. Ultra Luxury Interior

- Two executive rear seats with Ottoman recline, massage, and ventilation
- Rear-seat touchscreen command console with climate and media controls
- 25-speaker Mark Levinson® premium surround sound system
- Rear 11.4" entertainment displays
- 4-zone climate control and active noise cancellation
- Wireless charging, ambient lighting, and privacy curtains
- Optional intercom, surveillance cameras, and emergency lighting

ARMoured LEXUS LX600



TECHNICAL SPECIFICATIONS

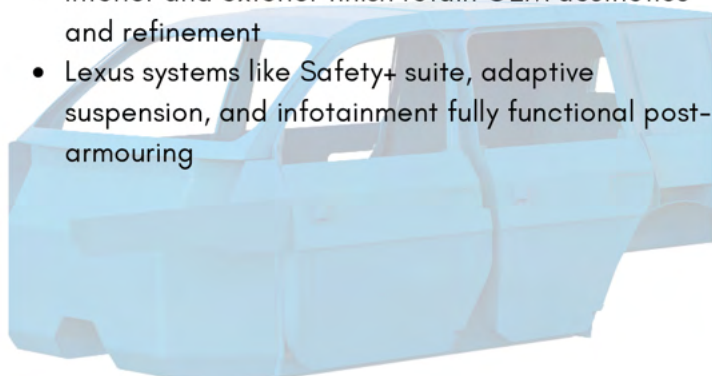
- Armouring Standard: VPAM BRV 2009 VR7 / ERV 2010
- Curb Weight: ~5,200-5,500 kg (depending on equipment)
- Seating: 4 passengers (Ultra Luxury configuration)
- Top Speed: ~160 km/h (electronically limited)
- Payload Capacity: ~500-700 kg
- Run-Flat Range: Up to 80 km after full tyre deflation

APPLICATIONS

- Head of State transport
- Executive convoy vehicle
- Secure travel for diplomats, billionaires, or royal families
- NGO or embassy movement in high-risk regions

CERTIFICATION & BUILD PROCESS

- Certified to VPAM BRV 2009 VR7 and ERV 2010
- Constructed by approved armouring specialists using OEM-grade materials
- Interior and exterior finish retain OEM aesthetics and refinement
- Lexus systems like Safety+ suite, adaptive suspension, and infotainment fully functional post-armouring



CONCLUSION

The VPAM 7 Armoured Lexus LX600 Ultra Luxury redefines secure travel for those who will not compromise on comfort or class. Whether navigating a conflict zone or arriving at a red-carpet event, it ensures discreet, elite-level protection with Lexus' signature calm, quiet luxury.



ARMoured RANGE ROVER



PRESTIGE WITH PROTECTION. POWER WITH PEACE OF MIND.

The VPAM 7 Armoured Range Rover Autobiography is the definitive statement in secure luxury mobility. Designed for high-level government officials, diplomats, and ultra-high-net-worth individuals, this vehicle delivers exceptional protection without compromising Range Rover's hallmark elegance, refinement, and off-road prowess.

Armoured discreetly and tested to the stringent VPAM BRV 2009 VR7 standard, the Range Rover Autobiography offers a seamless blend of advanced ballistic protection, executive-class comfort, and world-class design.

Built to meet VPAM BRV 2009 VR7 standards—the elite European benchmark for armoured vehicles—this SUV offers certified protection against:

- 7.62x51mm NATO rifle rounds
- Armor-piercing ammunition
- Blast threats including hand grenades and fragmentation (ERV 2010)

Each vehicle undergoes rigorous ballistic testing and is reinforced to resist both direct fire and explosive threats while maintaining OEM safety, performance, and luxury systems.

KEY FEATURES

1. Ballistic & Blast Protection

- Full 360° VPAM 7-rated ballistic steel and composite armoring
- Multi-layered bullet-resistant glass with anti-spall layer
- Roof and underfloor protection against grenade and light mine threats
- Armoured overlap system at all door and body joints
- Armoured ECU, fuel tank, and critical engine components
- Run-flat tyre inserts for high-speed escape after deflation
- Optional: blast seats, oxygen supply, and fire suppression system

2. Performance & Platform

- Engine Options: 4.4L V8 Twin Turbocharged (530 hp) or 3.0L I6 PHEV (503 hp)
- Transmission: 8-speed automatic with intelligent all-wheel drive
- Suspension: Electronic air suspension with dynamic response, upgraded for armoured weight
- Chassis: Reinforced monocoque body architecture for enhanced strength and balance
- Fuel Tank: Armoured, 90L capacity

ARMoured RANGE ROVER



3. Interior Elegance

- Extended wheelbase options for rear executive lounge comfort
- Rear captain's seats with massage, recline, and ventilation
- Meridian™ Signature Surround Sound (35-speaker system)
- Dual 13.1" rear-seat entertainment screens
- Fold-out tray tables and refrigerator compartment
- Touch Pro Duo infotainment with secure comms integration (optional)
- Discreet intercom and surveillance system available

TECHNICAL OVERVIEW

- Ballistic Certification: VPAM BRV 2009 VR7 / ERV 2010 (blast rating)
- Weight: ~5,200 – 5,600 kg (armoured curb weight)
- Seating Capacity: 4 – 5 passengers
- Run-Flat Capability: 80+ km after tyre loss
- Top Speed (governed): ~160 km/h
- Payload Capacity: ~500 – 800 kg

APPLICATION

- Presidential or ministerial transport
- Executive and diplomatic travel in high-risk zones
- High-profile business and royal family security
- Secure airport pickup and convoy integration
- NGO or embassy field deployment

CONCLUSION

The VPAM 7 Armoured Range Rover Autobiography stands at the crossroads of luxury and survivability. It is a vehicle built not only to make an entrance but also to withstand any threat on the way. Designed for discerning clients who require both elegance and endurance, this is secure mobility—elevated.



ARMoured TOYOTA LC 79 SERIES



MISSION-READY. BATTLE-TESTED. VPAM 7 CERTIFIED.

The VPAM 7 Armoured Toyota Land Cruiser 79 Series SUV is a purpose-built, no-compromise armoured vehicle engineered for high-risk operations in combat zones, border security patrols, counter-terror missions, and hostile terrain. Renowned for its rugged simplicity and legendary reliability, the 79 Series becomes a fortress on wheels when enhanced to VPAM BRV 2009 VR7 standards.

Designed for military units, government task forces, NGOs, and security contractors operating in volatile environments, this platform delivers unmatched durability, survivability, and off-road capability under fire.

Independently tested and certified to the VPAM BRV 2009 VR7 standard, the armoured Land Cruiser 79 Series offers all-around protection against:

- 7.62x51mm NATO rounds
- Armor-piercing ammunition (e.g., 7.62x39mm API BZ, 5.56x45mm SS109)
- Grenade fragments and blast pressure (compliant with ERV 2010)

This level of protection is typically reserved for high-level military and diplomatic armoured vehicles, now available in a highly capable 4x4 workhorse platform.

KEY FEATURES

1. Ballistic & Blast Protection

- 360° armoured capsule using VPAM 7-certified ballistic steel and composite materials
- Bullet-resistant multi-layer glass with anti-spall laminate
- Roof and underbody mine/blast protection
- Armoured battery, ECU, fuel tank, and vital drivetrain components
- Door overlaps, reinforced hinges, and structural pillar upgrades
- Run-flat tyre inserts (full mobility after deflation)
- Optional: Escape hatch, gun ports, surveillance and comms integration

2. Platform & Powertrain

- Base Vehicle: Toyota Land Cruiser 79 Series (Single or Double Cab converted SUV)
- Engine Options:
 - 4.5L V8 turbo diesel (IVD-FTV)
 - 4.2L 6-cylinder diesel (1HZ - for non-EU markets)
- Transmission: 5-speed manual or upgraded automatic
- Drivetrain: Full-time 4WD with locking front and rear differentials
- Chassis Reinforcement: Upgraded leaf springs, shocks, and anti-roll systems

ARMoured TOYOTA LC 79 SERIES



3. Interior & Mission Fit-Out

- Configurable seating (2+2, 2+3, 6-seater troop carrier)
- Ruggedised interior for field durability
- Optional air-conditioning, auxiliary power, and red/white tactical lighting
- Satellite comms, tactical radio pre-wiring, and GPS options
- Storage lockers, weapon racks, or custom mission kits (upon request)

TECHNICAL SPECIFICATIONS

- Ballistic Rating: VPAM BRV 2009 VR7 / ERV 2010
- Curb Weight (Armoured): 4,800 - 5,300 kg (variant dependent)
- Seating Capacity: 4 - 6 occupants (mission configurable)
- Payload Capacity: Up to 800 kg
- Run-Flat Range: 50-80 km post-deflation
- Top Speed (limited): ~130 - 160 km/h
- Fuel Tank: Dual 90L tanks (armoured)

APPLICATION

- Military field operations and convoy support
- Border patrol and anti-smuggling task forces
- UN, NGO, and humanitarian relief operations in high-threat zones
- Oil and gas field personnel movement
- Private security firms and PSD teams
- Mobile command or comms vehicle platform

COMPLIANCE & CONSTRUCTION

- Armouring integrated by certified military-grade specialists
- Compliance with VPAM BRV 2009 and ERV 2010 standards
- Retains Toyota reliability, serviceability, and spare parts compatibility
- Designed for extreme environments (desert, jungle, mountain, conflict zones)



ARMoured TOYOTA HIACE



SECURE MOBILITY FOR TEAMS, DELEGATIONS, AND VIP

The VPAM 7 Armoured Toyota Hiace Bus offers secure, high-capacity transportation without compromising on protection, comfort, or mobility. Engineered to transport up to 10 passengers safely through high-risk zones, it is the preferred solution for government convoys, diplomatic movements, corporate security operations, and NGO deployments in volatile environments.

Built to meet the rigorous VPAM BRV 2009 VR7 ballistic standard, this armoured Hiace provides all-around protection against rifle fire and explosive threats, while maintaining Toyota's renowned reliability and serviceability.

The armoured Hiace is certified to VPAM BRV 2009 VR7, ensuring protection against:

- 7.62x51mm NATO rifle rounds
- Armor-piercing and intermediate threats (e.g., 5.56x45mm, 7.62x39mm)
- Blast threats from hand grenades and IED fragments (ERV 2010 compliant)

Each unit is independently tested and built to exacting standards that prioritize passenger survivability and structural integrity in the most hostile environments.

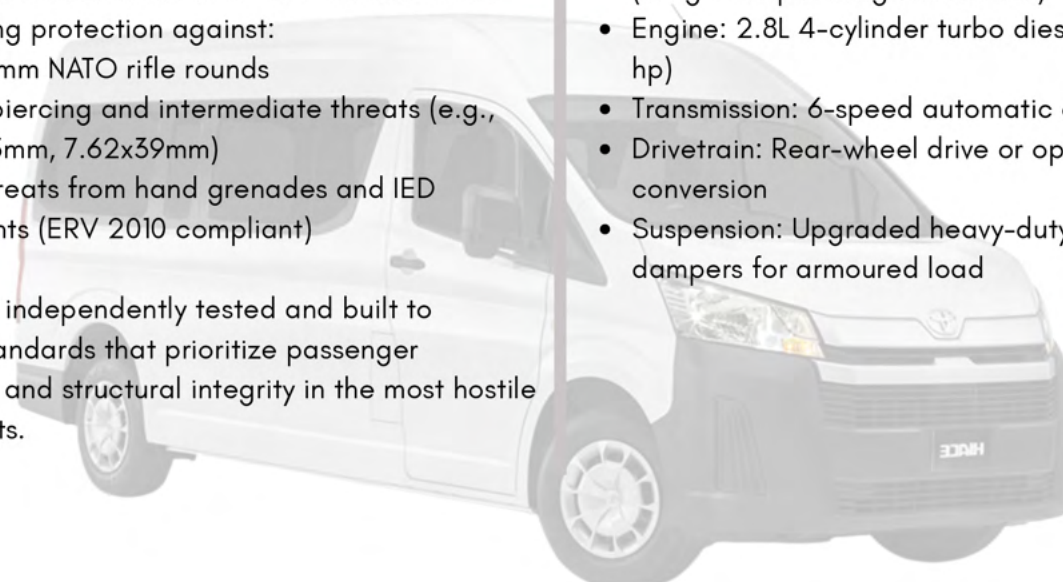
KEY FEATURES

1. Ballistic & Blast Protection

- 360° VPAM 7-rated armouring using ballistic steel and advanced composites
- Bullet-resistant multi-layered glass with internal anti-spall treatment
- Armoured roof and underfloor blast protection
- Overlap protection at all door seams and structural pillars
- Armoured fuel tank, battery, and ECU
- Run-flat tyre system for emergency escape after deflation
- Optional: roof escape hatch, intercom system, surveillance cameras, and oxygen system

2. Platform & Powertrain

- Base Vehicle: Toyota Hiace 2.8L Diesel or Petrol (Long or Super Long Wheelbase)
- Engine: 2.8L 4-cylinder turbo diesel (approx. 174 hp)
- Transmission: 6-speed automatic or manual
- Drivetrain: Rear-wheel drive or optional 4x4 conversion
- Suspension: Upgraded heavy-duty springs and dampers for armoured load



ARMoured TOYOTA HIACE



3. Interior Configuration & Comfort

- Configurable seating: 8 to 10 passengers (VIP, staff, tactical team layouts)
- Reinforced modular seating with optional blast mitigation
- Dual-zone air conditioning with rear blower units
- Optional VIP layout with reclining leather seats, tables, and media system
- Tactical lighting, PA system, and emergency exit features available

TECHNICAL SPECIFICATIONS

- Ballistic Protection: VPAM BRV 2009 VR7 / ERV 2010
- Curb Weight: ~4,800 - 5,400 kg (depending on configuration)
- Seating Capacity: Up to 16 occupants
- Payload: 500 - 800 kg (based on layout)
- Run-flat Distance: 50-80 km after tyre deflation
- Fuel Tank: Armoured, 70L capacity
- Top Speed: ~130 - 150 km/h (governed for safety)

APPLICATIONS

- Government and presidential convoy support
- Embassy and diplomatic staff movement
- NGO and humanitarian missions in conflict zones
- Corporate executive or expatriate team transport
- Secure airport shuttles or border transfers
- Mobile tactical command or comms platform



COMPLIANCE & BUILD INTEGRITY

- Built by certified armoured firms in accordance with VPAM BRV 2009 VR7 and ERV 2010 standards
- Maintains full functionality of original Toyota systems (braking, lighting, diagnostics)
- Easy servicing with Toyota global parts availability
- Armouring integration preserves factory appearance and branding

CONCLUSION

The VPAM 7 Armoured Toyota Hiace Bus is a trusted asset for secure group transportation in high-threat zones. Whether moving diplomats, VIP teams, or humanitarian personnel, it ensures mobility without vulnerability—delivering peace of mind with every journey.



ARMoured TOYOTA COASTER



GROUP TRANSPORT WITH CERTIFIED BALLISTIC PROTECTION

The VPAM 7 Armoured Toyota Coaster Bus is the gold standard in secure passenger transport, purpose-built for high-risk environments where safety and capacity are critical. With seating for up to 18 occupants and certified VPAM BRV 2009 VR7 protection, this vehicle is engineered to safeguard diplomats, corporate teams, security personnel, and aid workers while in transit.

Trusted by governments, embassies, NGOs, and private security providers, the armoured Coaster balances functionality, comfort, and military-grade ballistic resistance—making it one of the most reliable secure mobility platforms for mass personnel movement.

This vehicle is certified to VPAM BRV 2009 VR7, the German ballistic testing standard recognised globally for its stringent protection criteria. It offers protection against:

- 7.62x51mm NATO rifle rounds
- Armor-piercing ammunition and automatic weapons fire
- Grenade fragments and lateral blast effects (ERV 2010 compliant)

Each vehicle undergoes independent testing to ensure survivability in the event of armed attacks or explosive threats.

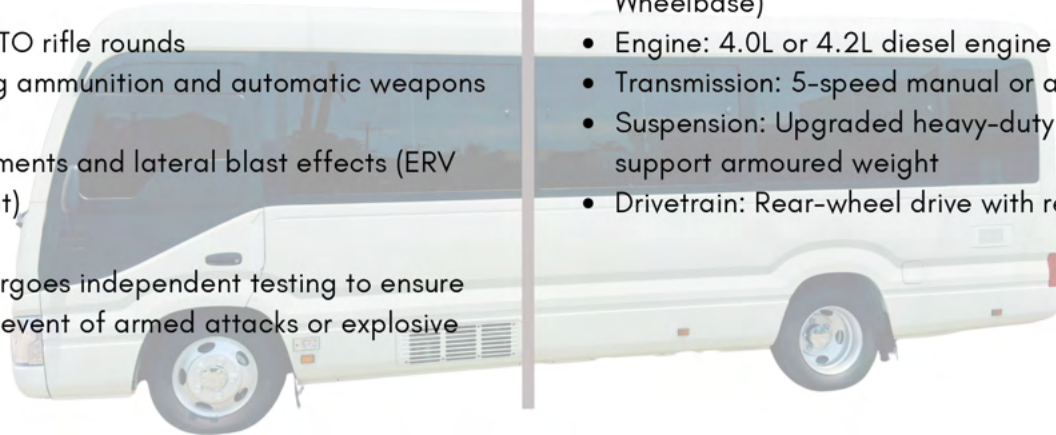
KEY FEATURES

1. Ballistic & Blast Protection

- Full perimeter VPAM 7-rated armouring using ballistic steel and composite panels
- Multi-layered bullet-resistant glass with internal anti-spall coating
- Roof and underbody blast protection to counter grenades and IEDs
- Armoured fuel tank, battery, and engine control modules
- Door overlap protection and reinforced structural pillars
- Run-flat tyre system (travel up to 80 km after deflation)
- Optional features: escape hatch, emergency lighting, intercom, surveillance system

2. Powertrain & Platform

- Base Model: Toyota Coaster (Standard or Long Wheelbase)
- Engine: 4.0L or 4.2L diesel engine
- Transmission: 5-speed manual or automatic
- Suspension: Upgraded heavy-duty suspension to support armoured weight
- Drivetrain: Rear-wheel drive with reinforced axles



ARMoured TOYOTA COASTER



3. Interior Layout & Comfort

- Seating capacity: 14 to 18 passengers (configurable)
- Durable, easy-to-clean interior finishes
- Optional VIP executive seating (leather recliners, individual AC vents)
- Dual-zone air conditioning and auxiliary rear climate units
- Custom options: communication systems, CCTV, emergency escape tools

TECHNICAL SPECIFICATIONS

- Ballistic Standard: VPAM BRV 2009 VR7 / ERV 2010
- Curb Weight (Armoured): ~5,500 - 6,200 kg
- Payload Capacity: ~800 kg
- Top Speed (limited): 110 - 130 km/h
- Fuel Tank: Armoured, 95L capacity
- Run-Flat Range: Up to 80 km after tyre deflation
- Seating: 14-18 passengers depending on interior configuration

APPLICATIONS

- Government and security agency personnel transport
- Diplomatic convoys and foreign embassy group movements
- Corporate workforce transport in conflict-prone regions
- NGO operations in humanitarian response zones
- Oil, gas, and mining crew logistics in remote or high-risk areas



CONCLUSION

The VPAM 7 Armoured Toyota Coaster Bus delivers the rare combination of high-capacity passenger transport and battle-tested ballistic protection. Whether you're moving diplomats, mission-critical teams, or security personnel, it ensures safe passage in even the most unpredictable operational landscapes. Trusted worldwide, it is the backbone of secure group mobility.



ARMoured MERCEDES S-CLASS



THE PINNACLE OF PROTECTION AND PRESTIGE

The VPAM 7 Armoured Mercedes-Benz S-Class delivers the ultimate blend of luxury, security, and sophistication, making it the vehicle of choice for heads of state, royalty, dignitaries, and elite executives. Built upon the world-renowned Mercedes-Benz S-Class platform, this armoured variant discreetly integrates military-grade ballistic protection without compromising the vehicle's unmatched elegance or performance.

Designed to meet the strict VPAM BRV 2009 VR7 standard, this S-Class provides protection against high-caliber rifle fire and explosive threats—while offering all the refinement and innovation expected from the flagship Mercedes sedan.

Independently tested and certified to VPAM BRV 2009 VR7, this vehicle ensures all-around protection against:

- 7.62x51mm NATO rounds
- Armor-piercing and intermediate threats (e.g., 5.56x45mm, 7.62x39mm)
- Blast effects and fragmentation from IEDs and hand grenades (ERV 2010 compliant)

This level of protection is trusted by presidential security agencies and global executive protection teams.

KEY FEATURES

1. Ballistic & Blast Protection

- VPAM 7-rated 360° armoured steel and composite shielding
- Multi-layered ballistic glass with anti-spall interior protection
- Roof and underbody blast protection
- Overlap protection at all doors, pillars, and window frames
- Armoured fuel tank, battery, and electronic control units
- Run-flat tyres rated for escape at high speeds after puncture
- Optional: Emergency oxygen system, fire suppression, roof escape hatch

2. Performance & Platform

- Base Vehicle: Mercedes-Benz S-Class (S580, S680 Maybach optional)
- Engine Options:
 - S580: 4.0L V8 Biturbo with EQ Boost (496 hp)
 - S680 Maybach: 6.0L V12 Biturbo (603 hp)
- Transmission: 9G-TRONIC automatic with 4MATIC all-wheel drive
- Suspension: AIRMATIC® or E-Active Body Control calibrated for armoured load
- Brakes & Chassis: Reinforced and rebalanced for weight compensation

door glass
drops down to 35 cm

rear door glass
drops down to 35 cm

ARMOURED MERCEDES S-CLASS



3. Ultra-Luxury Interior

- First-class executive rear seating with reclining and massage functions
- Rear-seat entertainment suite with individual displays
- Ambient lighting, heated/cooled cupholders, and folding tables
- Burmester® 4D surround sound system
- Discreet intercom system and optional privacy partition
- Tactical options: Night vision, 360° camera surveillance, encrypted comms

TECHNICAL SPECIFICATIONS

- Ballistic Rating: VPAM BRV 2009 VR7 / ERV 2010
- Curb Weight: Approx. 5,000 – 5,400 kg (depending on variant and fit-out)
- Top Speed: ~160 km/h (electronically limited)
- Seating Capacity: 4-5 passengers
- Fuel Tank: Armoured, ~80L capacity
- Run-Flat Range: Up to 80 km post-deflation

APPLICATIONS

- Presidential transport
- Diplomatic and embassy vehicle fleets
- Ultra-high-net-worth individual (UHNWI) executive protection
- Secure corporate or royal family travel
- High-risk region deployments with VIP-level discretion

CONCLUSION

The VPAM 7 Armoured Mercedes-Benz S-Class is more than a vehicle—it is a mobile command centre, a sanctuary under threat, and a bold statement of power and protection. It offers elite clients complete peace of mind, wrapped in unparalleled comfort and refinement. In a world where security cannot be compromised, this S-Class sets the global benchmark.



ARMoured TOYOTA HILUX TRUCK



TACTICAL STRENGTH. BALLISTIC SECURITY. BUILT TO SURVIVE.

The VPAM 7 Armoured Toyota Hilux GR Sport is a rugged, performance-tuned pickup that's been transformed into a military-grade security vehicle—engineered to operate in some of the world's most hostile environments. Fusing the legendary reliability of the Toyota Hilux with advanced VPAM BRV 2009 VR7-certified protection, this platform is ideal for security forces, government agencies, private military contractors, and asset protection teams.

Whether it's navigating conflict zones, escorting convoys, or serving as a rapid-response unit, this armoured Hilux GR Sport is built for mobility under fire.

Tested and certified to VPAM BRV 2009 VR7, the vehicle offers 360° ballistic protection against:

- 7.62x51mm NATO rounds
- Intermediate and armor-piercing threats (e.g. 7.62x39mm, 5.56x45mm SS109)
- Fragmentation and lateral blast damage from hand grenades (ERV 2010 compliant)

Each vehicle undergoes rigorous testing and independent certification, ensuring maximum occupant protection in real-world threat scenarios.

KEY FEATURES

1. Ballistic & Blast Protection

- Full VPAM 7-certified armoring using high-hardness ballistic steel and composite panels
- Multi-layer bullet-resistant glass with anti-spall inner layer
- Roof and underbody protection against grenade and light IED blasts
- Armoured battery, fuel tank, ECU, and critical components
- Reinforced structural pillars, hinges, and door overlaps
- Run-flat tyre system capable of maintaining mobility after deflation
- Optional: escape hatch, gun ports, external surveillance cameras, fire suppression

2. Performance & Platform

- Base Model: Toyota Hilux GR Sport
- Engine: 2.8L turbo diesel engine (204 hp, 500 Nm torque)
- Transmission: 6-speed automatic with 4WD
- Suspension: Upgraded GR Sport suspension with enhanced shocks, tuned for armoured weight
- Braking: Reinforced brakes and load-sensitive proportioning

ARMOURED TOYOTA HILUX TRUCK



3. Tactical Interior & Utility

- Configurable seating for 4-5 personnel
- Option for communications system, tactical lighting, and GPS tracking
- Rear tray can be outfitted for equipment storage, drone deployment, or ballistic shield racks
- Dual-zone climate control, infotainment screen, and driver assist features retained
- Optional blackout mode and red-light tactical interior

TECHNICAL SPECIFICATIONS

- Ballistic Rating: VPAM BRV 2009 VR7 / ERV 2010
- Curb Weight (Armoured): Approx. 4,500 - 4,900 kg
- Payload Capacity: Up to 600-700 kg (depending on configuration)
- Top Speed: ~130-150 km/h (governed for safety)
- Fuel Tank: Armoured, 80L capacity
- Run-Flat Range: 50-80 km post-deflation

APPLICATIONS

- Military patrol or recon missions
- Government and presidential escort fleets
- Diplomatic motorcade support
- Anti-smuggling and border patrol operations
- Private security and tactical response teams
- High-value asset transport



ARMoured TOYOTA TUNDRA TRUCK



FULL-SIZE POWER. FULL-SPECTRUM PROTECTION.

The VPAM 7 Armoured Toyota Tundra is a bold and formidable security platform that delivers maximum protection, performance, and payload capacity in a modern full-size pickup. With VPAM BRV 2009 VR7-certified ballistic integrity, this vehicle is engineered for high-risk operations, secure convoy support, asset protection, and executive movement in unstable regions.

Combining Toyota's reputation for durability with advanced armouring technology, the armoured Tundra offers unmatched versatility—whether you're on a diplomatic mission, escorting VIPs, or navigating rugged terrain in hostile territory.

The vehicle is independently tested and certified to VPAM BRV 2009 VR7, meeting strict European standards for protection against:

- 7.62x51mm NATO rifle fire
- Armor-piercing ammunition and high-velocity rounds
- Blast threats from hand grenades and explosive fragments (ERV 2010 compliant)

The armoured cell is engineered to absorb and deflect ballistic energy while maintaining mobility and structural integrity under sustained threat.

KEY FEATURES

1. Ballistic & Blast Protection

- Full perimeter armouring with VPAM 7-certified ballistic steel and composite panels
- Multi-layered bullet-resistant glass with anti-spall interior film
- Reinforced roof and underbody blast protection
- Door overlap system and reinforced pillar structures
- Armoured ECU, battery, and fuel tank protection
- Run-flat tyre system for escape under fire
- Optional: gun ports, roof escape hatch, fire suppression system, surveillance cameras

2. Platform & Performance

- Base Vehicle: Toyota Tundra CrewMax (2022-2024 models)
- Engine: 3.5L i-FORCE MAX twin-turbo V6 hybrid (437 hp, 790 Nm torque)
- Transmission: 10-speed automatic
- Drivetrain: 4WD with electronically controlled transfer case
- Suspension: Upgraded off-road suspension tuned for armoured weight
- Towing Capacity (Post-Armouring): Up to 2,500-3,000 kg (depending on configuration)

ARMoured TOYOTA TUNDRA TRUCK



3. Interior & Utility

- Configurable seating for 4-5 passengers
- Heated/ventilated leather seats, panoramic display, JBL® premium sound system
- Optional VIP rear seat package or secure communications equipment
- Large cargo bed for tactical gear, power generators, or drone storage
- Dual-zone climate control and integrated navigation
- Tactical lighting, secure storage, and blackout mode (optional)

TECHNICAL SPECIFICATIONS

- Ballistic Protection: VPAM BRV 2009 VR7 / ERV 2010
- Curb Weight (Armoured): ~5,500 – 6,000 kg
- Top Speed (Governed): ~150 km/h
- Run-Flat Range: Up to 80 km after full tyre deflation
- Fuel Tank: Armoured, ~120L capacity
- Payload: 600 – 800 kg depending on configuration
- Seating: 4-5 (crew configuration)

APPLICATIONS

- Diplomatic and VIP protection in volatile regions
- Military logistics and convoy escort
- Government agency operations and border patrol
- Oil & gas security in remote territories
- Armoured response teams or tactical strike units
- Private security and anti-kidnap protection



ARMoured MERCEDES AROCS CIT



HEAVY-DUTY PROTECTION FOR HIGH-VALUE CARGO

The VPAM 7 Armoured Mercedes-Benz Arocs Cash-In-Transit (CIT) Vehicle is a fortress on wheels—engineered to transport large volumes of currency, precious metals, and critical assets through high-risk environments with uncompromised safety and operational confidence.

Built on the robust Mercedes-Benz Arocs heavy-duty truck platform, and enhanced with full VPAM BRV 2009 VR7 ballistic certification, this CIT solution delivers maximum resistance to firearms, ambushes, and IED threats. It is ideal for central banks, bullion transport companies, and national security logistics providers operating in volatile or high-threat regions.

Certified to the VPAM BRV 2009 VR7 standard, this vehicle provides all-round ballistic protection against:

- 7.62x51mm NATO rifle rounds
- Armor-piercing ammunition (e.g., 7.62x39mm API BZ, 5.56x45mm SS109)
- Explosive threats, fragmentation, and blast overpressure (ERV 2010 compliant)

Built to survive coordinated attacks, this vehicle ensures both cargo and crew remain secure during transit under any threat condition.

KEY FEATURES

1. Ballistic & Blast Protection

- Full VPAM 7-rated armoured shell with reinforced steel and composite structure
- Bullet-resistant glass with internal anti-spall layer (driver cab and cargo compartment)
- Blast-resistant underbody to counter IEDs and grenade threats
- Reinforced doors, hinges, and overlaps at all critical seams
- Armoured fuel tank, battery, and ECU
- Optional: fire suppression system, escape hatch, surveillance suite, and electric door locks

2. Vehicle Platform & Payload

- Base Model: Mercedes-Benz Arocs 4x2 or 4x4 truck chassis
- Engine: 7.7L or 10.7L inline 6-cylinder diesel (Euro III-VI)
- Transmission: Mercedes PowerShift 12-speed automated manual gearbox
- Drive Configurations: 4x2, 4x4, 6x4 (depending on payload needs)
- Suspension: Heavy-duty leaf spring or air suspension with stabilizers
- Payload Capacity: 4 to 8 tons of cargo (armoured body and layout dependent)

ARMoured MERCEDES AROCS CIT



3. Cash Security & Loading Features

- Dedicated armoured vault or segregated cargo chamber with steel walls and controlled access
- Automated or manual safe boxes, locking coin trays, and bulk cash storage units
- Remote-controlled locking mechanisms and internal monitoring cameras
- Dual intercom system between cabin and cargo compartment
- Optional integrated GPS tracking, geofencing, alarm triggering, and kill-switch systems

4. Crew Safety & Operational Features

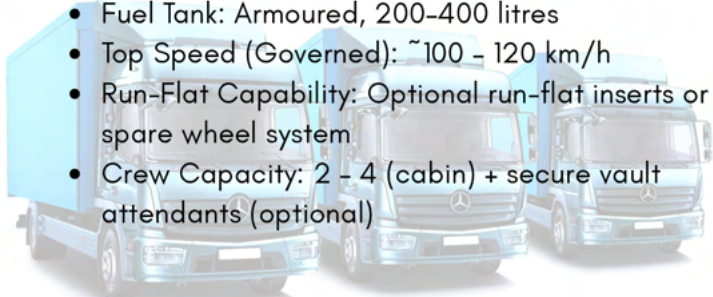
- Armoured driver cabin with 2-3 seating capacity
- Air-conditioning, blast-resistant seating, and tactical lighting
- External 360° camera coverage and DVR recording
- Gun ports (optional) and external loudspeaker or PA system
- Emergency communication radio and panic alarm integration

TECHNICAL SPECIFICATIONS

- Ballistic Rating: VPAM BRV 2009 VR7 / ERV 2010
- Gross Vehicle Weight (GVW): 18,000 - 26,000 kg
- Fuel Tank: Armoured, 200-400 litres
- Top Speed (Governed): ~100 - 120 km/h
- Run-Flat Capability: Optional run-flat inserts or spare wheel system
- Crew Capacity: 2 - 4 (cabin) + secure vault attendants (optional)

APPLICATIONS

- Central and commercial bank cash distribution
- Gold, diamond, or bullion transport
- Government treasury operations
- High-risk inter-city or cross-border fund movement
- Military-grade logistics and asset retrieval operations



ARMoured TOYOTA HILUX CIT



SECURE ASSET TRANSPORT. PROVEN RELIABILITY

The VPAM 7 Armoured Toyota Hilux CIT is purpose-built for the secure transport of currency, precious metals, and high-value assets in high-threat environments.

It combines Toyota's legendary Hilux 4x4 durability with advanced VPAM BRV 2009 VR7-certified ballistic protection and specialised CIT cargo security systems, delivering a platform trusted by banks, security companies, and government cash-handling operations worldwide.

KEY FEATURES

1. Ballistic & Blast Protection

Certified to VPAM BRV 2009 VR7, the vehicle provides 360° protection against:

- 7.62×51mm NATO rifle fire (including multi-hit scenarios)
- Intermediate threats such as 7.62×39mm AK-47 and 5.56×45mm SS109 rounds
- Blast protection compliant with ERV 2010, covering hand grenades and fragmentation devices

Armouring Features:

- Ballistic steel and composite armour integrated into cab and vault areas
- Multi-layer bullet-resistant glass with internal anti-spall coating
- Overlap protection on all door seams and structural pillars

- Armoured fuel tank, battery, and engine control unit (ECU)
- Run-flat tyre inserts for continued mobility after puncture

2. Vehicle Platform & Performance

- Base Vehicle: Toyota Hilux 4x4 (Single or Double Cab)
- Engine: 2.8L Turbo Diesel (204 hp, 500 Nm torque)
- Transmission: 6-speed automatic or manual
- Drivetrain: Selectable 4WD with high/low-range gearing
- Suspension: Heavy-duty upgraded springs, shocks, and reinforced axles for armoured payload
- Brakes: Oversized heavy-duty disc/drum setup with performance pads

3. CIT Vault & Security Systems

- Armoured Rear Cargo Vault with reinforced bulkhead separation
- Dual-lock system (mechanical + electronic) for secure cash storage
- Fire-resistant safes or coin trays with anti-tamper mechanisms
- CCTV surveillance covering vault and vehicle perimeter
- Alarm and tracking system with geofencing alerts
- Optional: dye pack system or GPS-tagged cash containers

ARMoured TOYOTA HILUX CIT



4. Crew Cabin & Safety

- Seating for 2-3 personnel in the armoured cab
- Two-way intercom system for external communication without lowering windows
- PA system for crowd management during deliveries
- Blast-mitigation seating and seatbelt systems
- Red-light tactical interior lighting for night operations

APPLICATIONS

- Bank branch cash deliveries and collections
- ATM replenishment and servicing
- Secure transfer of gold, jewellery, or sensitive documents
- Government treasury operations
- High-risk asset movement in conflict-prone areas

CONCLUSION

The VPAM 7 Armoured Toyota Hilux CIT delivers a balanced mix of mobility, security, and operational efficiency, ensuring your high-value cargo reaches its destination — no matter the threat level.



CRITICAL COMPONENTS

1. BALLISTIC STEEL (OPAQUE ARMOUR)

High hardness steel rich in Carbon, otherwise known as Ballistic steel is the first layer of protection between projectile threats and the passengers. During the armouring process, various patterns fitting the shape of different areas of the vehicle are made using Computer Aided Design and through the use of a CNC Fibre Laser machine, the Ballistic steel is cut into these patterns that are then welded to the vehicle's interior to form a 360 bullet resistant fortress. Buckler Land Systems through its technical partnership and patronage of SSAB Sweden provides her clientele with 360 degree protection matching their operational threat level.



2. BULLET RESISTANT GLASS (TRANSPARENT ARMOUR)

Bullet-Resistant Glass — also called ballistic glass, bulletproof glass (informally), or transparent armour — is a specially engineered material designed to withstand ballistic impacts from firearms, shrapnel, and other projectiles while allowing clear visibility.

Bullet-resistant glass is not truly “bulletproof”; instead, it is bullet-resistant, meaning it can absorb and disperse the energy of a projectile to prevent penetration for a certain number of shots, calibre, and velocity as defined by its protection rating.

It typically consists of multiple layers of glass and polycarbonate bonded together under heat and pressure.

When a bullet strikes:

- The outer glass layers flatten and slow the projectile.
- The inner polycarbonate layers absorb remaining energy and prevent spalling (glass fragments flying inward).
- The layers work together to keep the projectile from passing through.



CRITICAL COMPONENTS

3. RUNFLAT INSERTS

Run-flat tyre inserts are specialised devices fitted inside the tyres of armoured vehicles to allow them to continue moving for about 60km even after a tyre has been punctured, shot, or completely deflated. They are a critical survival feature in security, military, and VIP protection vehicles, where stopping after tyre damage could be life-threatening. A high-strength insert is fitted inside the tyre, mounted onto the wheel rim and when the tyre loses pressure, the vehicle's weight rests on the insert. The insert supports the vehicle and allows continued driving at reduced speed until reaching safety.

In an ambush or hostile environment, tyre punctures are often used to immobilize a vehicle.

Our runflat inserts allows your armoured vehicle maintain mobility after:

- Gunfire penetration
- Nail strips or spike attacks
- Shrapnel damage from explosives
- Blowouts from rough terrain or high-speed impacts



4. HEAVY DUTY SUSPENSION SYSTEM

Heavy-duty suspensions are reinforced suspension systems designed to handle the increased weight and altered dynamics of armoured vehicles. Armouring (steel, composite panels, ballistic glass, run-flat tyres) can add 1,000-2,000+ kg to a standard vehicle, which standard factory suspension is not engineered to support.

The purpose of Heavy-Duty Suspension in Armoured Vehicles is:

- Weight Compensation: Maintain proper ride height and stability despite added mass.
- Performance Preservation: Ensure acceleration, braking, and cornering remain safe and predictable.
- Durability: Prevent premature wear of suspension components under constant heavy loads.
- Ride Comfort: Preserve passenger comfort despite thicker armour, run-flats, and reinforced structure.
- Off-Road Capability: Maintain or improve off-road handling for tactical, military, or convoy operations.



CRITICAL COMPONENTS

5. HEAVY DUTY BRAKING SYSTEM

A heavy-duty braking system is an essential upgrade for armoured vehicles, which typically weigh 30-80% more than their stock versions due to ballistic steel, composite armour, bullet-resistant glass, run-flat tyres, and reinforced chassis components. The added mass increases stopping distances and heat buildup, making enhanced brakes critical for both safety and performance.

Heavy-Duty Braking system is a critical component to be installed during armoured vehicle production because;

- **Shorter Stopping Distances:** Offset the extra weight of armour and equipment.
- **Heat Resistance:** Prevent brake fade during repeated stops or emergency manoeuvres.
- **Durability:** Withstand constant operation at higher Gross Vehicle Weight (GVW).
- **Safety Under Load:** Maintain braking efficiency even when the vehicle is fully loaded with crew, cargo, or cash.



6. HEAVY DUTY MACHINED DOOR HINGES

In an armoured vehicle, door weight can increase by 200-400% compared to a standard vehicle due to ballistic steel plating, multi-layer bullet-resistant glass, overlap armour systems, and blast seals. This weight places immense stress on the hinges, which is why heavy-duty machined door hinges are a critical engineering upgrade.

Heavy-Duty Machined door hinges serves the following purpose:

- **Support Additional Weight:** Prevent sagging or misalignment of armoured doors.
- **Smooth Operation:** Allow heavy doors to open/close without excessive force.
- **Durability:** Withstand years of repeated use in extreme environments.
- **Safety:** Ensure doors remain functional after impacts, blasts, or ballistic events.



CRITICAL COMPONENTS

7. RADIATOR PROTECTION GRILLE

In an ambush or attack, one of the quickest ways to immobilise a vehicle without penetrating its armour is to disable the radiator. A damaged radiator causes coolant loss, leading to overheating and eventual engine failure. For this reason, radiator protection is a key part of armoured vehicle engineering, especially for VPAM 7-certified vehicles used in high-threat zones.

The primary purpose of the Radiator protection Grille is to;

- **Prevent Immediate Disabling Shots:** Stops bullets, shrapnel, or debris from piercing the radiator core.
- **Maintain Engine Cooling:** Keeps the cooling system functional during and after hostile engagements.
- **Increase Mission Survivability:** Ensures the vehicle can keep moving long enough to exit danger.
- **Protect Other Front-End Components:** Also shields intercoolers, condensers, and front-mounted electronics.



8. FUEL TANK PROTECTION

In civilian armoured vehicles (CAVs) – such as VPAM 7-certified SUVs, sedans, and cash-in-transit trucks – fuel tank protection is a critical safety measure. Unlike military vehicles, which often operate in active warzones, civilian armoured vehicles typically face targeted attacks in urban or highway environments, where a hit to the fuel system could immobilise the vehicle or cause a fire.

Protecting a Civilian Armoured Vehicle's fuel tank is critical for the following reasons;

- **Prevent Penetration:** Stop bullets, shrapnel, or debris from breaching the fuel tank.
- **Prevent Leaks:** Reduce risk of fuel loss and environmental contamination.
- **Reduce Fire & Explosion Risk:** Minimise chances of ignition from sparks, hot metal, or tracer rounds.
- **Maintain Mobility:** Keep the vehicle running long enough to exit a danger zone.



OPTIONAL ADD-ON COMPONENTS

9. AUTOMATIC FIRE SUPPRESSION SYSTEM

An Automatic Fire Suppression System (AFSS) is a self-activating safety system installed in armoured vehicles to detect and extinguish fires within seconds, without requiring driver or crew intervention. It is an optional component in VPAM 7 civilian armoured vehicles, cash-in-transit trucks, and military tactical platforms, where fire can result from ballistic impact, engine failure, electrical faults, or explosive threats.

It provides the means for immediate Response in the event of a fire before it can spread and cause catastrophic damage.



10. AUTOMATIC SPIKE DISPENSING SYSTEM

An Automatic Spike Dispensing System (ASDS) is a concealed, vehicle-mounted mechanism that deploys tyre-deflating spikes behind or ahead of a moving or stationary vehicle. It is primarily used in law enforcement, military, and armoured convoy applications to disable pursuing or intercepting vehicles during high-threat scenarios.

In armoured vehicles, especially those used for VIP protection, cash-in-transit, and tactical operations – the ASDS acts as a non-lethal countermeasure to prevent hostile vehicles from closing in.

ASDS can serve the following purpose;

- Hostile Vehicle Neutralisation: Stop or slow down pursuing threats.
- Perimeter Defence: Block vehicle approach to secure locations.
- Escape Facilitation: Create a gap between the protected vehicle and the threat during retreat.
- Crowd & Convoy Control: Manage vehicle flow in tactical situations.



OPTIONAL ADD-ON COMPONENTS

11. TWO-WAY INTERCOM SYSTEM

An armoured vehicle two-way intercom system is a hands-free, secure communication device that allows passengers inside the armoured capsule to speak with individuals outside the vehicle without opening doors or windows.

This can be an important feature for VIP transport, cash-in-transit (CIT) operations, military vehicles, and diplomatic fleets, where opening a window could compromise ballistic protection.

The Two-way Intercommunication system promotes;

- **Maintain Security:** Enables communication without breaking the armoured seal.
- **Operational Efficiency:** Supports instructions, identification checks, and negotiations.
- **Safety Under Threat:** Prevents exposure to ballistic or chemical threats from outside.
- **Convenience:** Allows normal interaction at gates, checkpoints, or tolls.



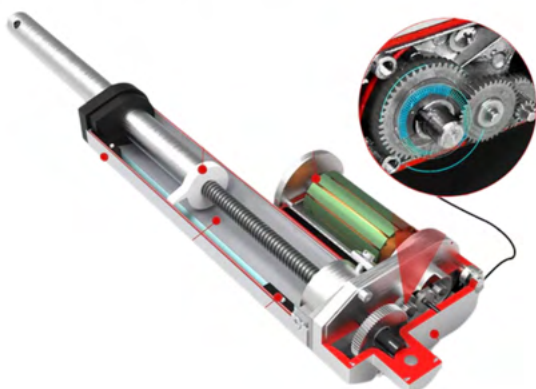
12. BULLET RESISTANT GLASS ACTUATORS

In civilian armoured vehicles (CAVs), bullet-resistant glass actuators are specially engineered mechanisms that raise and lower multi-layer ballistic glass – often 40-80 mm thick – while ensuring smooth, reliable operation.

These actuators are optional but important in VPAM 7 and similar high-protection vehicles, where window weight and resistance levels are several times greater than in standard cars.

Heavy-Duty Actuators provide the following function;

- **Lift Heavy Ballistic Glass:** Standard automotive window regulators cannot handle the weight of armoured glazing.
- **Ensure Reliability:** Maintain smooth and consistent movement despite increased load.
- **Preserve Functionality:** Allow partial or full window opening for operational needs while keeping ballistic integrity.
- **Enhance Safety:** Prevent glass from dropping or jamming during emergencies.



OPTIONAL ADD-ON COMPONENTS

13. MOBILE SIGNAL BOOSTER

In civilian armoured vehicles (CAVs) – such as VIP transport SUVs, diplomatic sedans, and cash-in-transit (CIT) trucks – a mobile signal booster ensures strong, reliable mobile network connectivity in areas with weak coverage or signal interference.

Because the ballistic steel and multi-layer bullet-resistant glass used in armoured vehicles significantly reduce signal strength, boosters are often installed as part of the vehicle's communications suite.

Mobile Signal boosters serve the purpose to;

- **Overcome Armour Interference:** Maintain clear mobile calls and data connectivity despite signal-blocking armoured materials.
- **Enhance Operational Communication:** Ensure security teams remain in contact with control centres or escorts.
- **Improve GPS & App Performance:** Stronger mobile data improves navigation, tracking, and security applications.
- **Emergency Readiness:** Maintain reliable contact during security incidents in remote or urban dead zones.



14. MOTOROLA MOTOTRBO DM4600E DIGITAL MOBILE RADIO

The Motorola MOTOTRBO™ DM4600e is a high-performance digital mobile two-way radio designed for secure, reliable, and instant communication – making it an ideal fit for civilian armoured vehicles (CAVs) such as VPAM 7-rated SUVs, sedans, and cash-in-transit trucks. Its encryption capabilities, long-range coverage, and integration flexibility make it a vital tool for convoy coordination, security escorts, and operational command.

Why the DM4600e is Ideal for Armoured Vehicles?

- **Overcomes Cellular Limitations:** Functions independently of mobile networks, avoiding signal loss in rural areas or during network outages.
- **Encrypted Communication:** Ensures sensitive conversations remain private and protected from interception.
- **Long-Range Performance:** 25-45 watts of transmit power ensures strong, clear communication over extended distances – essential for convoy operations.
- **Rugged Reliability:** Designed to withstand vibration, dust, and temperature extremes common in armoured deployments.



OPTIONAL ADD-ON COMPONENTS

15. LED STROBE LIGHT

In civilian armoured vehicles (CAVs) – especially those used in VIP escort duties, diplomatic movements, and cash-in-transit (CIT) operations – red and blue strobe lights serve as emergency warning and priority signalling systems. When activated, these lights signal to surrounding traffic and pedestrians that the vehicle is operating in a high-priority, security-sensitive mode, often requiring a clear path.

Strobe Lights serve the following purpose;

- **Visual Identification:** Alerts other road users that the vehicle is part of a protected convoy or security operation.
- **Traffic Clearing:** Encourages surrounding vehicles to yield or give way.
- **Security Deterrence:** Visibly communicates an official or high-security presence, discouraging interference.
- **Convoy Coordination:** Allows escort and lead vehicles to easily identify each other in traffic.



16. PUBLIC ADDRESS SYSTEM AND SIREN

A Public Address System (PA) combined with a siren is a standard feature in many civilian armoured vehicles (CAVs) used for VIP protection, diplomatic transport, and cash-in-transit (CIT) duties. It allows the occupants – typically the driver or security personnel – to communicate with people outside the vehicle and signal priority movement without compromising ballistic protection by opening windows or doors.

PA/SIREN Systems are useful for;

- **External Communication:** Issue instructions, warnings, or alerts to pedestrians, security personnel, or other drivers.
- **Traffic Clearing:** Siren alerts surrounding vehicles to give way for priority movement.
- **Crowd Control:** Manage people around the vehicle in congested or high-threat situations.
- **Security Deterrence:** Demonstrate an official or high-security presence to discourage interference.



BALLISTIC & BLAST CERTIFICATION

Our vehicles are independently tested and certified to the following internationally recognised standards:

- VPAM BRV 2009 VR7 and above – for ballistic resistance against high-powered rifle fire from all angles.
- VPAM ERV 2010 – for blast resistance from hand grenades, IEDs, and roadside bombs.
- EN.1063 – for transparent armour (bullet-resistant glass).
- STANAG 4569 (select applications) – for protection against military-grade threats (optional on request).

HOMOLOGATION & COMPLIANCE

Each Buckler armoured vehicle is delivered with full homologation and compliance documents, ensuring legality for road use and border clearance. These include:

- Type approval (where applicable)
- Vehicle Identification Number (VIN) integrity validation
- Gross Vehicle Weight Rating (GVWR) recalibration
- Lights, emissions, and signal equipment compliance
- Noise and visibility standards compliance
- Post-armouring brake, axle load, and emissions certification

Our team ensures each vehicle meets local regulatory requirements in the client's country of use, including registration support, road-worthiness certification, and end-user documentation.

QUALITY ASSURANCE & TRACEABILITY

All stages of the testing and homologation process are logged, traceable, and verifiable. Each armoured vehicle is issued a Certificate of Production with unique armouring specifications, ballistic levels, test references, and serialised component tracking.

OUR COMMITMENT

Buckler Land Systems does not compromise. Our civilian armoured vehicles undergo the same testing rigour as military platforms – because your safety is our mission.

ARMoured VEHICLE OPERATIONS COURSE (AVOC)

The Civilian Armoured Vehicle Operations Course by Buckler Land Systems is designed to equip drivers, security personnel, and executive protection teams with the specialised skills required to operate civilian armoured vehicles (CAVs) effectively in both low-risk and high-threat environments.

Modern armoured vehicles – especially those certified to VPAM, NIJ, or EN standards – demand unique handling skills, system familiarity, and tactical awareness. This course combines technical classroom instruction, hands-on driving drills, and real-world threat simulation to prepare operators for the demands of secure transportation.

COURSE OBJECTIVES

- Teach safe and efficient operation of armoured vehicles under varied conditions.
- Provide in-depth knowledge of armoured vehicle systems and protection features.
- Train drivers in evasive and defensive driving to counter security threats.
- Develop route planning, convoy coordination, and communication skills.
- Enhance readiness for emergency scenarios, including vehicle disablement and ambush response.

WHO SHOULD ATTEND

- Corporate and private security drivers.
- Executive protection (EP) specialists.
- Diplomatic fleet chauffeurs.
- Cash-in-Transit (CIT) vehicle operators.
- NGO and high-risk area drivers.

CORE TRAINING MODULES

1. Introduction to Civilian Armoured Vehicles

- Categories of armoured vehicles (SUVs, sedans, vans, CIT trucks).
- Ballistic protection levels (VPAM BRV-2009 VR, NIJ, EN 1063).
- Overview of armour materials: ballistic steel, composites, and bullet-resistant glass.

2. Vehicle Systems Familiarisation

- Heavy-duty suspensions, reinforced brakes, and run-flat tyres.
- Communication systems: two-way radios, intercoms, and signal boosters.
- Security features: fire suppression, self-sealing fuel tanks, radiator and underbody protection.

3. Handling & Driving Dynamics

- Understanding weight distribution and impact on acceleration and braking.
- Low-speed precision driving and tight-space manoeuvring.
- Off-road considerations for armoured SUVs and pickups.

4. Defensive & Evasive Driving

- Threat identification and decision-making.
- High-speed lane changes and emergency braking.
- J-turns, Y-turns, and reverse escape techniques.
- Convoy coordination and movement discipline.

5. Threat Response & Emergency Scenarios

- Ambush reaction drills.
- Securing VIPs during vehicle disablement.
- Communication protocols under attack.

Etc.

WARRANTY & THROUGH-LIFE SUPPORT

At Buckler Land Systems, we understand that owning and operating civilian armoured vehicles is a significant investment in safety and security. That's why we back every vehicle we deliver with a comprehensive 3-year warranty and an extensive through-life support programme – ensuring your armoured vehicle remains reliable, effective, and mission-ready throughout its service life.

1. 3-YEAR COMPREHENSIVE WARRANTY

Our industry-leading warranty covers:

- **Armour Integrity:** Protection against defects in ballistic steel, composite panels, and bullet-resistant glass.
- **Mechanical Components:** Coverage for armoured-specific upgrades such as heavy-duty suspensions, brakes, and run-flat tyres.
- **Electrical and Security Systems:** Warranty on integrated systems including communication equipment, fire suppression, automatic spike systems, and lighting.
- **Labour and Parts:** Repairs and replacements handled by our certified technicians using genuine Buckler Land Systems parts.

This warranty provides peace of mind that your vehicle's protection and performance are guaranteed against manufacturing defects and workmanship issues under normal operational use.

2. THROUGH-LIFE SUPPORT PROGRAMME

Beyond the initial warranty period, Buckler Land Systems offers a dedicated through-life support package designed to keep your armoured vehicle in peak condition:

a) Scheduled Maintenance & Inspections

- Routine checks tailored specifically for armoured vehicles, including armour integrity, mechanical wear, and system diagnostics.
- Preventative maintenance plans to minimise unexpected downtime and costly repairs.

b) Repairs and Upgrades

- Access to our network of authorised service centres staffed by technicians trained in armoured vehicle technologies.
- Options for system upgrades, such as improved ballistic materials, enhanced communication suites, or countermeasure additions as threats evolve.

c) Emergency Support & Rapid Response

- Priority technical support for urgent repairs or vehicle issues impacting operational readiness.
- Mobile service teams capable of on-site repairs in key regions, reducing vehicle downtime.

d) Training & Documentation

- Refresher courses for operators and maintenance staff to ensure correct vehicle use and care.
- Detailed maintenance manuals and operational guides specific to your armoured vehicle configuration.

3. WHY CHOOSE BUCKLER LAND SYSTEMS SUPPORT?

- **Expertise:** Decades of experience in armoured vehicle manufacturing and field service.
- **Quality Assurance:** Certified workmanship and genuine parts ensure safety and longevity.
- **Customer-Centric:** Tailored support programmes designed around your operational needs.
- **Global Reach:** Support available internationally to keep your fleet mission-ready wherever deployed.

With Buckler Land Systems, your civilian armoured vehicle investment is safeguarded not just at delivery but throughout its entire lifecycle – empowering you to operate confidently in any environment.

AFTERSALES SUPPORT

At Buckler Land Systems, our commitment to clients extends far beyond the delivery of their civilian armoured vehicle. We understand that the continued reliability, safety, and performance of your vehicle depend on expert aftersales care and readily available spare parts.

COMPREHENSIVE AFTERSALES SUPPORT

Our aftersales program is designed to ensure that every Buckler armoured vehicle remains in optimal condition throughout its service life. We provide:

- Scheduled Maintenance Services – Regular inspections, servicing, and preventative maintenance to keep your vehicle operating at peak performance.
- Repair & Refurbishment – Expert technicians trained in armoured vehicle systems to restore ballistic integrity, replace worn components, and conduct upgrades when required.
- On-Site & Remote Support – Assistance wherever you are, with the ability to dispatch mobile technicians or provide guided support remotely.
- Technical Training – Driver and mechanic training on operating and maintaining armoured vehicles to manufacturer specifications.

GENUINE SPARE PARTS SUPPLY

Buckler Land Systems maintains a robust inventory of genuine spare parts specifically engineered for armoured vehicles, ensuring that replacements meet original ballistic and mechanical standards. Our parts offering includes:

- Armouring Components – Ballistic glass, armoured steel panels, blast floors, and run-flat systems.
- Mechanical & Electrical Parts – OEM-grade suspension, braking, engine, and drivetrain components tailored to the weight and configuration of armoured vehicles.
- Specialised Accessories – Sirens, public address systems, intercoms, and tactical lighting.

By sourcing parts directly from approved manufacturers and maintaining global supply chain partnerships, we guarantee quick turnaround times and uncompromising quality.

YOUR SAFETY, OUR COMMITMENT

From the day you take delivery to every mile you drive, Buckler Land Systems stands beside you, offering unmatched support and genuine spare parts to keep you protected.



DOCUMENTATION

At Buckler Land Systems, we recognize that the procurement and operation of civilian armoured vehicles involve complex regulatory and compliance requirements. To support our clients fully, we provide comprehensive and accurate documentation which is a prerequisite for the use of Civilian Armoured Vehicles in most countries.

Some of the documentation we provide to our clients include:

1. IMPORT CUSTOMS DOCUMENTS

- Complete and compliant import paperwork tailored to the destination country's customs regulations.
- Customs declarations, clearance forms, and tax documentation

2. END USER CERTIFICATES (EUC)

- Provision of official End User Certificates specifying the final recipient of the armoured vehicle, ensuring transparency and adherence to international arms control and export regulations.
- Documentation verifying that vehicles will be used strictly for civilian protection and security purposes.
- Support in the preparation and submission of EUCs required by both exporting and importing governments

3. MINISTRY OF FOREIGN AFFAIRS (MOFA) DOCUMENTS

- Facilitation of MFA endorsements and approvals, which are often mandatory for the export and import of armoured vehicles.
- Liaison with government bodies to ensure all diplomatic clearances, export permits, and transit approvals are secured on time.
- Preparation of supporting documentation to satisfy bilateral and multilateral trade agreements.

4. BALLISTIC TEST CERTIFICATES

- Issuance of detailed ballistic protection certificates confirming that vehicles meet internationally recognised standards such as VPAM, NIJ, or EN 1063.
- Certificates specify the exact level of ballistic protection provided by the armoured panels, glass, and components.
- Third-party ballistic testing reports (where applicable) are included to verify compliance and assure clients of vehicle safety.

5. CERTIFICATE OF PRODUCTION

- Official Certificate of Production verifying the manufacturing origin, date, and production details of each armoured vehicle.
- Includes information on vehicle model, armouring specifications, and quality assurance checks.
- Serves as a critical document for registration, warranty claims, and future resale.

Our commitment to precise and comprehensive documentation guarantees that your civilian armoured vehicle acquisition is transparent, legal, and hassle-free – allowing you to focus on operational readiness and security.



SUSTAINABILITY

Our Commitment

At Buckler Land Systems, protection and responsibility go hand-in-hand. Through our partnership with **Solar Silo**, we're decarbonising how we design and build civilian armoured vehicles (CAVs) by expanding on-site renewables, electrifying plant equipment, and auditing our supply chain for lower-carbon materials—without compromising safety, certification, or performance.

2025 Renewable Energy Highlight

13,000 kWh of clean electricity will be generated on-site in 2025.

What that means (approximate equivalents):

- Power for ~100 typical Nigerian homes for a year (based on ~130kWh/home).
- ~2.6–4.0 tonnes CO₂e avoided versus average grid electricity,* or up to ~9.4 tonnes CO₂e versus diesel generator use.

* Actual avoidance depends on local grid intensity.

** Where renewables displace diesel backup.

HOW WE'RE MAKING CAV PRODUCTION GREENER

Clean Power & Smart Energy

- Rooftop solar PV with smart inverters; export metering and automated fault diagnostics.
- Battery energy storage to shave peaks, protect processes during outages, and charge off-peak.
- High-efficiency HVAC & heat-recovery in welding, glazing, and paint areas.
- LED task lighting across fabrication, inspection, and QA bays.

Materials & Processes

- Responsible steel sourcing (EAF/recycled-content where available) and closed-loop scrap recovery.
- Low-VOC adhesives and coatings; solvent capture & recycling in finishing.
- Water efficiency: closed-loop cooling circuits and rinse-water filtration.
- Consumables rationalisation to reduce waste from abrasives, packaging, and PPE.

Equipment Electrification

- Electric forklifts & pallet movers; idle-reduction policies for plant and gensets.
- Compressed-air leak audits and variable-speed compressors to cut parasitic loads.

Vehicles with Lower Whole-Life Impact

- Optimised curb weight (finite-element design, mixed-material armour) to maintain protection while improving fuel efficiency.
- Run-flat, brake, and suspension selections tuned for durability—fewer replacements over the life of the vehicle.
- End-of-life plan: take-back of armour modules and ballistic glass for specialist recycling where feasible.

Governance, Standards & Transparency

- ISO 9001 (quality) and ISO 14001 (environmental) aligned management systems.
- Scope 1–3 accounting with annual targets for energy intensity (kWh/vehicle), waste diversion, and VOC reductions.
- Supplier Code of Conduct embedding ESG criteria into steel, glass, and components sourcing.
- Ballistic & vehicle certifications (VPAM/EN/ERV) unaffected—sustainability is additive, never a trade-off.

2026–2028 Roadmap

- ≥25,000 kWh/year on-site renewables by 2028 (subject to roof expansion and storage).
- 50% reduction in operational VOC emissions versus 2023 baseline.
- ≥90% waste diversion from landfill in production areas.
- Green logistics pilots with consolidated shipping and alternative fuels for regional moves.

Why It Matters

Every kilowatt-hour we generate and every kilogram of material we save makes our vehicles—and your operations—more resilient. With Buckler, security and sustainability are designed together from day one.

MULTIMEDIA GALLERY



SCAN ME

PARTNERS

**MANUFACTURERS
ASSOCIATION
OF NIGERIA**



HUTCHINSON®

SSAB

STOPTECH
HIGH PERFORMANCE BRAKE SYSTEMS®



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**NATIONAL AUTOMOTIVE DESIGN
AND DEVELOPMENT COUNCIL**



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of Defence**



**NIGERIAN
ARMY**



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INDUSTRY, TRADE &
INVESTMENT**



DEFENCE INDUSTRY ASSOCIATION OF NIGERIA
Projecting Defence Industry



CLIENTELE



GLOBE MOTORS



UNITED NATIONS



SIEMENS



LAFARGE



OYO STATE
THE PACESETTER STATE



Oando



Nestle



FIRST E & P
FIRST EXPLORATION & PETROLEUM
DEVELOPMENT COMPANY LIMITED



CENTRAL BANK OF NIGERIA



www.mitmohgroup.com



AUTO SECURITY FILM

We understand getting an armoured vehicle can be a big investment and might take sometime to reach a decision to procure one. However, protection remains critical and we care. This is why we have partnered with LLUMAR as the exclusive distributor and installer of LLumar Automotive Security Films in Nigeria.

LLumar Automotive Security Film is a premium, multi-layer polyester window film engineered to enhance vehicle safety, deter break-ins, and improve occupant protection. Designed for both civilian armoured vehicles (CAVs) and high-value personal cars, LLumar security film provides a strong, invisible barrier that reinforces glass without compromising clarity or style.

KEY BENEFITS

1. Enhanced Security & Break-In Resistance

- Holds shattered glass together, slowing or deterring smash-and-grab attacks.
- Increases the time required for forced entry, giving drivers and passengers critical seconds to react.

2. Safety in Accidents

- Reduces the risk of injury from flying glass fragments during collisions.
- Prevents loose shards from scattering into the cabin.

3. Discreet Appearance

- Available in clear or tinted options to match vehicle style.
- Maintains OEM-like transparency with no distortion or hazing.

4. UV Protection

- Blocks 99% of harmful UVA/UVB rays, protecting occupants and preserving interiors.

5. Heat & Glare Reduction(with tinted variants)

- Improves cabin comfort by rejecting solar heat.
- Reduces glare for better visibility and driving comfort.

TECHNICAL FEATURES

- Construction: Multi-ply polyester layers with scratch-resistant hard coat.
- Thickness Options: 4 mil, 7 mil, 8 mil, and higher for security applications.
- Adhesion: Pressure-sensitive mounting adhesive for permanent bond.
- Impact Performance: Resists blunt force, repeated strikes, and high-velocity impacts.
- Certifications: Meets or exceeds ANSI Z97.1, CPSC 16 CFR 1201, and various automotive glazing safety standards.

WARRANTY & QUALITY ASSURANCE

- Backed by LLumar's limited manufacturer warranty against peeling, bubbling, and discolouration.
- Installed by certified technicians to ensure performance and longevity.

SUMMARY

LLumar Automotive Security Film is more than just tint — it's an invisible shield for your vehicle's glass, combining security, safety, comfort, and style in one advanced product.

PRODUCT/SERVICE ENQUIRY



FOR
VEHICLE ARMOURING



EMAIL 



WHATSAPP 



FOR
LLUMAR AUTOMOTIVE
SECURITY FILM



EMAIL 



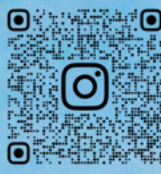
WHATSAPP 



SCAN ME



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BUCKER



LAND SYSTEMS

