



## MAV (MAV-L) based on Ford F-550



### 1. Vehicle Base Specification ( New Design APC)

Base vehicle	2019 Ford F550, 4x4, 145 " WB
Engine	6.7 liters V8, Diesel Turbo, EURO V equivalent EPA/USA
Power	330hp @ 2800 rpm
Torque	1017 Nm @2000 Rpm /
Total length	6,365 mm and 5,960 mm (lightweight model)
Width	2,438 mm, no mirrors
Height (without turret)	2,500 mm

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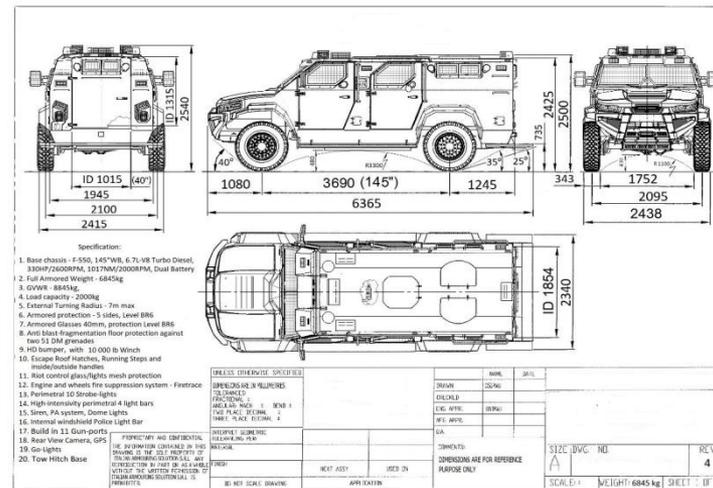


Wheelbase	3,690 mm
Weight in vacuum (shielded)	8,345 kg; 6, 845 kg (lightweight model)
GVWR	10,345 kg; 8,845 kg (lightweight model)
Load capacity	2.000 kg
Transmission	6-Speed Automatic+Reverse,electronically controlled (TorqShift)
Traction	4x4 ,4 Wheels
Front Suspension	Solid shaft with high-strength linear coil/ Bumpstops and steering dampers Horstmann
Rear Suspension	Solid shaft with high-strength linear coil/ Bumpstops and steering dampers Horstmann
Tires and Rims	335/80 R20 or R20 12.5 (Michelin or Continental) With Tires 20 x 11 Military quality
Brakes	4 wheel disc, ABS
Accessories	Radio AM/FM with 2 speakers, main and auxiliary A/C GPS
Color	Black Finish Matt (any color )

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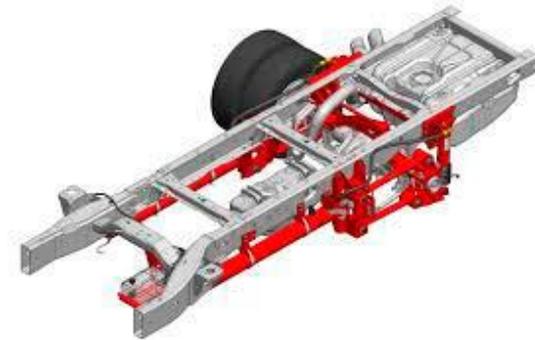
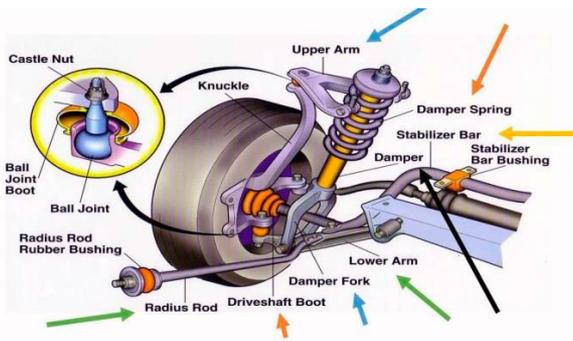
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## 2. Conversion modifications/Alterations of the armoring

- The bodywork corresponds to a monoblock system bolted to the chassis, includes grab bars for the hands around the external contour as well as the interior, includes side and rear non-slip treads.
- OEM body completely replaced. Damping bushings are included to separate the chassis from the body to allow better performance.
- Shield of 5 faces, sides of the compartment of passengers (roof and vertical), provide protection against ammunition NATO 7.62x51 HC FNB80, in accordance with CEN-BR7 for the Level of Shield, with angle of zero degrees of obliquity (for a lightweight model: ammunition NATO 7.62x51mm M80, in accordance with CEN-BR6 for the Level of Shield, with angle of zero degrees of obliquity).
- The Floor is equipped with explosion protection to protect the occupants against the fragmentation of the detonation of 6 kg TNT or equivalent land mines (for a lightweight model: explosion protection to protect the occupants against the fragmentation of the detonation of 2 hand grenades DM-51 German ammunition or equivalent antipersonnel mines). The body of the vehicle is totally encapsulated to provide protection a occupants at all points (monoblock type)
- The entire construction is composed of welded ballistic grade steel

- Specific North Weapon manufacturing materials and installation techniques are used to enable a significant reduction in cost to the customer while maintaining the structural integrity and the level of ballistic resistance, as well as the optimization of the center of gravity to provide extremely good maneuverability for a vehicle of this nature.
- The inner frame, built of ballistic steel, offers the superposition and security of protection for the main areas of impact with large surface, such as doors and windows. It also reinforces the structural integrity of support pillars and other areas that are crucial to maintaining the safety of vehicles in all circumstances, including rollover and ramming situations.
- The Vehicle Shield has been constructed in such a way as to guarantee that a projectile following a linear or angled trajectory will not enter the interior of the vehicle without contacting the armor material. In addition to this, the possibility of a projectile entering the interior of the vehicle due to a rebound of the armor will also be minimized.
- The front end is built with a solid shaft with high resistance linear coil incorporating a shock reducer, called as bump stop, in addition to Horstmann brand steering dampers. The rear assembly corresponds to a suspension system of the elliptical type and just like the front axle is equipped with a shock reducer or bump stop and Horstmann brand shock absorbers.



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### 3. Glass

- A combination of glass, polycarbonate and Mylar are linked together using the latest technology, producing one of the best transparent armor available while incorporating the following qualities:
- Shield anti-shrapnel protect the occupants against the glass destroying.
- Multiple impact protection.
- Optical quality, minimum distortion.
- Minimum Delamination.
- Minimal discoloration of UV rays
- All exterior side glass mirrors are protected from large projectile covers that can be removed by the user for cleaning and / or replacement of glass

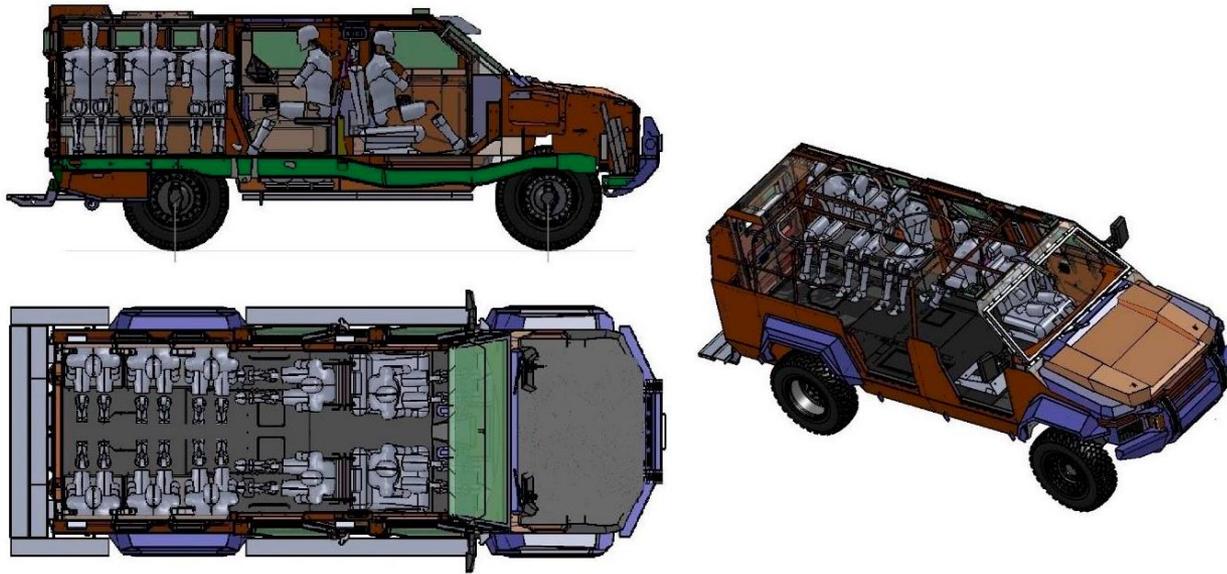


### 4. Electrical

- All electrical connections to this vehicle must be tested and modified as necessary to be protected against the shielding process.
- The non-standard electrical devices for the vehicle platform (interior lights, fans, sirens, etc.) have been installed in the Stark Group professional workshop and tested for quality control to ensure proper operation and installation.
- Wiring schemes for all installed devices are available through your sales associate

### 5. Interior

- All original OEM interior panels have been removed from this vehicle, with the exception of the front panel and seats. These portions have been modified at the
- factory to adapt to the new style of the vehicle body and have remained in place to ensure driver comfort and familiarity.
- All other components of the interior have been installed by Stark group manufacturing design personnel in order to guarantee maximum operational functionality.



## 6. Climate control

- The original Ford A / C temperature control system is used in the front cabin of the vehicle. In the rear operating area of the vehicle, A / C and Heating have been controlled independently, which ensures the rear compartment is still comfortable, even in operational scenarios with a variation of high temperature at extreme levels of heat and cold.
- Two large air exhaust fans, controlled from a switch located in the driver's compartment, have been mounted on the rear of the vehicle in order to provide additional heat dissipation from the inside, as well as easily remove any smoke and / or other chemical products transported by air that may be present within the vehicle's operating area.



## 7. Ballistics protection Level details: BR7/BR6

Class	Type of Weapon	Caliber	Type	Measure	Range Of Tests, m	Conditions Of Tests		
						Bullet speed M/s	Nr. of Impact	Distance Impact mm
BR6	Rifle	7.62 x 51	FJ1)/PB/SC	9.5 ± 0.1	10.00 ±0.5	831 ±10	3	120 ±10
BR7	Rifle	7.62 x 51	FJ1)/PB/SC	9.7 ± 0.2	10.00 ±0.5	8320 ±10	3	120±10

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