

# ARMORED MERCEDES-BENZ S 580

NEW GENERATION BODY STYLE



**LEVEL A9**

AGAINST 7.62 x 39mm, 5.56 x 45mm, 7.62 x 51mm





# VEHICLE SPECIFICATIONS

## BASE CHASSIS SPECIFICATIONS

**MAKE:** Mercedes-Benz  
**MODEL:** S 580 4MATIC  
**ENGINE:** 4.0L V8 Biturbo Petrol  
**POWER:** 496 hp & 516 Torque LB-FT  
**TRANSMISSION:** 9G-Tronic 9-Speed Automatic  
**TIRES:** 19 in (W/Run-Flat System)  
**COLOR:** Black  
**INTERIOR:** Black Nappa Leather  
**SEATING:** 2 + 3  
**APPROX. WEIGHT:** 6,400 lbs. (2,902 kg)

**HEIGHT:**

**59 in.**

(149 cm)

**WIDTH:**

**83 in.**

(210 cm)

**LENGTH:**

**204 in.**

(518 cm)

**WHEELBASE:**

**122 in.**

(309 cm)



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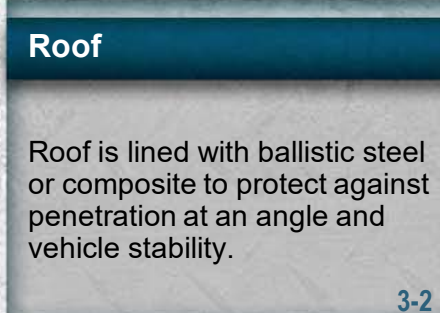
"no one protects you better."



### Firewall

Ballistic steel or composite material firewall provides protection from explosion and different angle of attacks.

3-1



### Roof

Roof is lined with ballistic steel or composite to protect against penetration at an angle and vehicle stability.

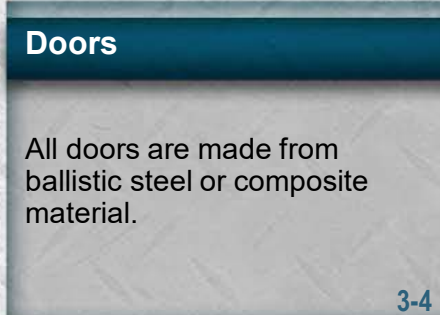
3-2



### Floor

Floor is lined with ballistic steel or composite to protect against mines and grenade blasts.

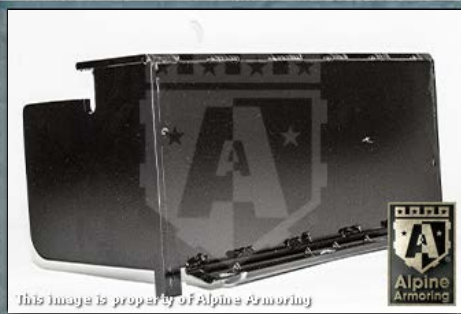
3-3



### Doors

All doors are made from ballistic steel or composite material.

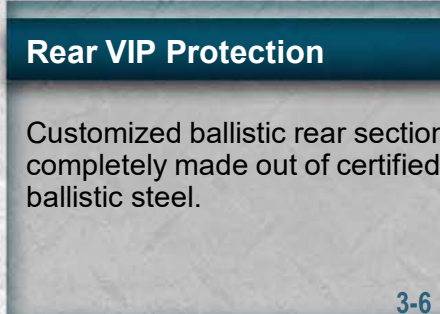
3-4



### Battery Protection

Fully enclosed in serviceable ballistic steel casings.

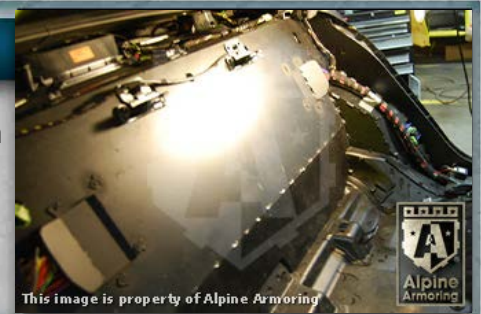
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### Rear VIP Protection

Customized ballistic rear section completely made out of certified ballistic steel.

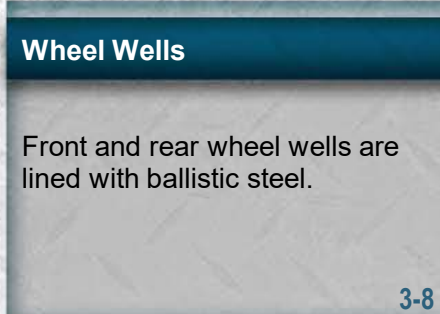
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### Overlaps

All doors and windows feature ballistic steel overlaps to keep shrapnel from angle shots from entering the cabin.

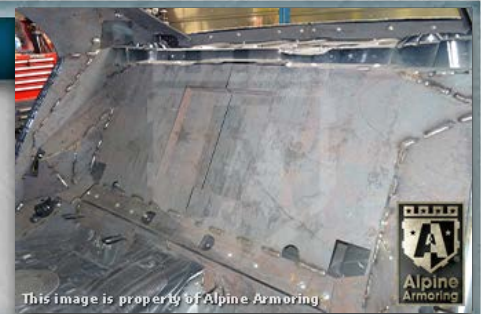
3-7



### Wheel Wells

Front and rear wheel wells are lined with ballistic steel.

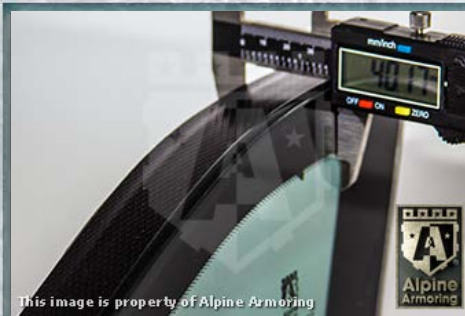
3-8







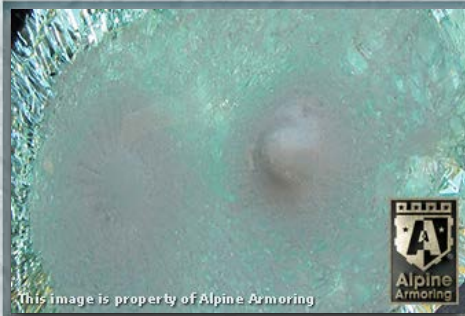
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### Glass Armor

Minimum 40 mm thick glass/polycarbonate composite A9/NIJ III transparent armor installed on the vehicle.

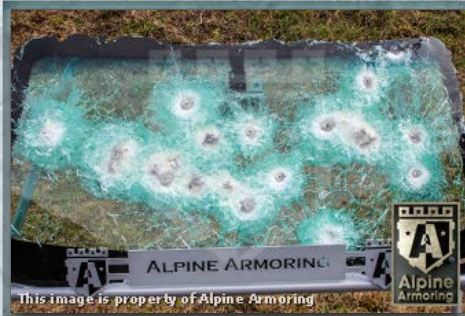
4-1



### Anti-Spall Layer

Inner-most anti-spall layer prevents glass and bullet fragments from penetrating into passenger cabin area and is free of any optical distortion and discoloration.

4-2



### Multi-Hit Protection

All windows are capable of sustaining multiple hits while providing protection to passengers.

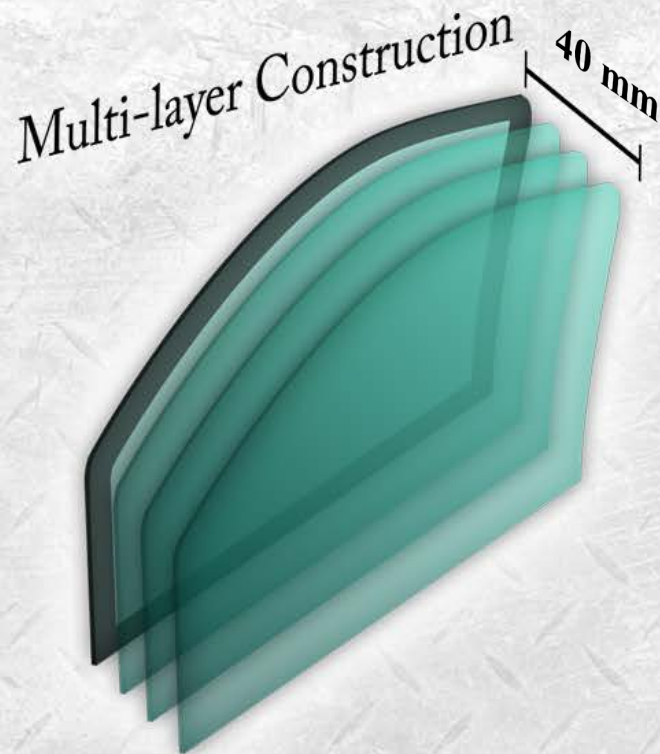
4-3



### Customized Actuators

The front 2 windows are equipped with special custom-designed heavy duty actuator mechanism to allow for faster and quieter operation with maximum traveling distance.

4-4







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### P.A./Multi-Siren System

Located on the center console. The multi-siren features standard siren tones, volume adjustment, and a public address system.

5-1

### Battery Protection

The battery is encased in a ballistic steel box to protect it.

5-5



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### Power Windows

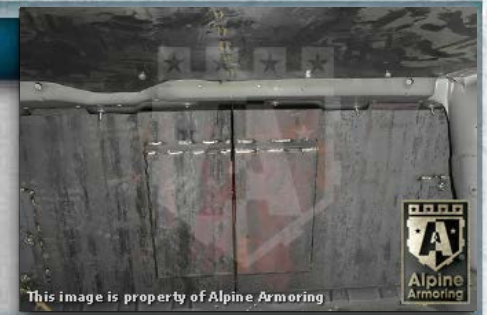
The front driver and passenger window are powered and lower approximately 4 - 6 inches.

5-2

### Fuse Box Protection

The fuse box is protected by a ballistic steel box.

5-6



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### Rear VIP Protection

Ballistic Steel Bulkhead behind rear seats protecting incoming rounds

5-3

### Fuel Tank Protection

Fuel tank is protected by a ballistic steel box. Protects from two simultaneous grenades.

5-7



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### Run-Flat Inserts

Vehicle will be equipped with full-size run-flat inserts in each tire.

5-4

### Tailpipe Protection

The tailpipe features a special mesh that prevents the tailpipe from being sabotaged.

5-8



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### Upgraded Braking

The vehicle's braking system (rotors & pads) will be upgraded to accommodate the added armor weight.

6-1

### WiFi/HotSpot/Sunroof Delete

Following Items will be deleted upon completion:

- Sunroof/Moonroof

6-5



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### Ballistic Door Overlap

Each door is equipped with ballistic steel overlap with added custom bullet-catchers wrapped in high quality leather or vinyl.

6-2

### OEM Air Ride Suspension

Auto 4-wheel level control helps compensate for additional cargo or passengers. It also lowers the ride height at higher speeds for improved aerodynamics, stability and efficiency.

6-6



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### OEM Appearance

The exterior of the vehicle with the VIP Armoring conversion will maintain the OEM appearance of the factory vehicle.

6-3

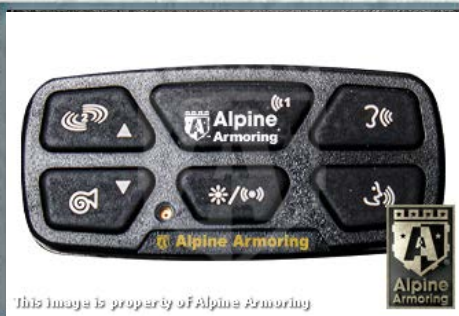
### External Car Microphone

Sleek, low profile microphone installed in the exterior of the vehicle (so you don't open your windows to speak).

6-7



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### P.A./Multi-Siren System

Located on the center console. The multi-siren features standard siren tones, volume adjustment, and a public address system.

6-4

### Emergency Lights Package

Alpine will install flashing Red/Blue LED lights hidden in the front grille and wired to the PA controller.

6-8



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# COMPLETED VEHICLE PHOTOS: EXTERIOR



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# COMPLETED VEHICLE PHOTOS: EXTERIOR



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# COMPLETED VEHICLE PHOTOS: INTERIOR



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# ALPINE ARMORING'S BALLISTIC CHART

| WEAPONS | SPECS                        |  |                  | LEVELS |       |        |          |         | BULLETS       |              |                    | NUMBER OF SHOTS |  |
|---------|------------------------------|--|------------------|--------|-------|--------|----------|---------|---------------|--------------|--------------------|-----------------|--|
|         | TYPE                         | CALIBER (mm)                                   | CLASS            | STANAG | UL    | ALPINE | NIJ      | CEN     | MASS (g)      | MATERIAL     | VELOCITY           |                 |  |
|         | .38 Special                  | 9 x 19   | Handgun          | —      | 1     | A1     | I,II,IIA | —       | 8.00          | LCCJ         | 358 M/S            | 5               |  |
|         | .357 Magnum                  | 9 x 33   | Handgun          | —      | 2     | A2     | I,IIA    | B1 & B3 | 10.20         | JSP          | 430 M/S            | 5               |  |
|         | .44 Magnum                   | 11 x 33  | Handgun          | —      | 3     | A3     | IIIA     | B4      | 15.60         | LWC          | 440 M/S            | 5               |  |
|         | MP5                          | 9 x 19   | SMG              | —      | 6     | A4     | IIIA     | B2      | 8.00          | LCCJ         | 427 M/S            | 5               |  |
|         | Shotgun                      | 12 Gauge                                       | Shotgun          | —      | 3 & 4 | A5     | IIIA     | SG2     | 28.30         | SLUG         | 503 M/S            | 3               |  |
|         | Tokarev                      | 7.62 x 25                                      | Handgun          | —      | —     | A5     | IIIA     | —       | 5.50          | LCSJ         | 488 M/S            | 5               |  |
|         | Kalashnikov (AK-47)          | 7.62 x 39                                      | Assault Rifle    | —      | —     | A6     | III      | B5      | 9.70          | SCCJ         | 732 M/S            | 5               |  |
|         | Kalashnikov (AK-47 Military) | 7.62 x 39 API BZ                               | Assault Rifle    | II     | —     | A7     | —        | B5+     | 11.70         | SCCJ         | 774 M/S            | 5               |  |
|         | M16/AR-15                    | 5.56 x 45 NATO SS109<br>5.56 x 45 NATO Ball    | Assault Rifle    | I      | 7     | A8     | IV       | B5      | 4.00          | SCCJ<br>LCCJ | 900 M/S<br>833 M/S | 3               |  |
|         | Winchester .308              | 7.62 x 51                                      | Rifle            | I      | 7     | A9     | III      | B6      | 10.90         | LCCJ         | 810 M/S            | 5               |  |
|         | Remington 700 SPS            | 7.62 x 63 AP (.30-06)<br>7.62 x 51AP (WC core) | High-Power Rifle | III    | 5 & 8 | A10    | IV       | B7-     | 10.80<br>8.40 | AP           | 869 M/S<br>930 M/S | 5               |  |
|         | Dragunov                     | 7.62 x 54R B32 API                             | Sniper Rifle     | III    | —     | A11    | IV+      | B7+     | 10.04         | SCCJ         | 854 M/S            | 1               |  |
|         | .50 Cal                      | 12.7 x 99                                      | High-Power Rifle | IV     | 10    | A12    | —        | —       | 45.00         | CJ           | 908 M/S            | 1               |  |

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**UL** ..... Underwriters Laboratory, 752  
**NIJ** ..... National Institute of Justice, 0108.01  
**CEN** ..... European Standard  
**STANAG** ... NATO's Standard (STANAG 4569)  
**ALPINE** .... Alpine Armoring's Certified Standard

**LCCJ** ..... Lead Core Copper Jacket  
**JSP** ..... Jacketed Soft Point  
**LWC** ..... Lead Wad Cutter  
**LCSJ** ..... Lead Core Steel Jacket  
**SCCJ** ..... Steel Core Copper Jacket  
**AP** ..... Armor Piercing  
**SG** ..... Shotgun

**Shots (5)** .... 11.4 cm Square Pattern (Corners & Center)  
**Shots (3)** .... 11.4 cm Triangular Pattern  
**Velocity** ..... Minimum Measured Velocity  
**NIJ Rating** .. Levels I, II, IIA, & IIIA (based on 1 of 2 required calibers of ballistic threat)



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# WARRANTY

## ARMORED MERCEDES-BENZ S580 S-CLASS

This vehicle, as proposed to the client in this quote, would be under Alpine Armoring's premium warranty covering all added armored parts and labor as well as all added accessories for one full year, effective the day of sale. Additional warranty for longer period is available upon request.

Alpine Armoring Inc. hereby honors this warranty in the United States and around the world against any and all related manufacturer's defects, including parts & labor.

MANAGEMENT AUTHORIZED  
ALPINE ARMORING INC.  
CHANTILLY, VIRGINIA, USA

\_\_\_\_\_ DATE ISSUED

