



# INTERNATIONAL ARMORING CORPORATION

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## CERTIFICATE OF ARMOR UP-FIT

Ref. No.: IAC-4491-OU-1

April 9, 2007

Vehicle: 2007 Jeep Grand Cherokee Limited 4x4

VIN: 1J8HR58257C580651

This certifies that the above referenced vehicle has been armored to the standards set forth herein and has been modified as described herein.

### Base Armor Defeat Specifications: IAC Level 5/CEN B6:

- **.357 Magnum** (full metal jacket, coned bullet, or soft core), 10.2 g, 425 ms / 158gr. 1450 fps
- **9mm Luger** (full metal jacket, round nose or soft core), 8 g., 381 ms / 124gr. 1250 fps
- **.44 Magnum** (Full metal jacket, flat nose, or soft core), 15.6 g, 460 ms / 240gr 1510 fps

### Armor Up-fit Specifications:

- 1) **Glass areas:** Windshield, rear doors and side glass were removed and replaced with bullet-resistant transparent armor multi-layer glass and polycarbonate inner layer to prevent spalling upon ballistic impact with a thickness of 21mm. Glass is curved and contoured to retain the appearance of the original glass. All transparent areas are armored to stated defeat specification. All windows are inoperable unless otherwise specified.
- 2) **Body:** Doors, pillar posts, side panels, kick-panels, firewall, and headers, cargo area, rear wheel arches and rear cargo door area have been armored with ballistic steel or ballistic composite materials in accordance with the defined standard of defeat. The IAC Elitus® overlap system has been installed around each window used throughout the vehicle to ensure complete protection.
- 3) **Door Modifications:** Internal reinforcements have been added to the doors to support the additional armor weight added. Door hinges have been reinforced. Overextension stop-straps have been installed to protect the door hinges from over-extension. Hardened plastic door risers have been installed on all doors to support closed doors at rest, as required.
- 4) **Roof:** Armored with Armormax ballistic composite material in accordance with the defined standard of defeat at an attack angle of 45 degrees or less. Sunroofs if on vehicle have been rendered inoperable.
- 5) **Floor:** Floor areas have been armored with multi-ply composite, semi-rigid ballistic-fragmentation material combined with Armormax PAC 100, molded to form fit contours of all floor board surfaces and panels. Protection is designed against the explosions of grenades (single German DM51 or US M-67) and a Std. 6 pound landmine.

- 6) **Vehicle Structured Modifications:** Reinforcement of pillar posts, hinge mounts, and upgrade/adjustment of vehicle suspension to include HD shocks, HD sway bars, heavy duty springs, HD torsion bars/adjustments and polyurethane bushings, as required and as available, to help compensate for the added weight of the armor up-fit.
- 7) **Bumpers:** Front and rear bumpers have been reinforced (hidden) to allow for "ramming" if required.
- 8) **Fuel System:** Fuel tank has been wrapped with composite ballistic multi-ply fragmentation blanket material.
- 9) **Locking Gas Cap** installed at fuel filler port if available.
- 10) **Electronic Control Module (ECM):** The ECM of Engine Computer has been armored to the stated defeat specification.
- 11) **Electrical System:** Original battery replaced with an Optima® based dual battery bullet-resistant Spiral Cell Technology.
- 12) **Exhaust System:** Wire mesh tailpipe protection added.
- 13) **Wheels and Tires:** Five (5) Hutchinson Run-flat tire devices have been inserted on the rim of each wheel, including the spare tire if possible.
- 14) **Operable Windows:** The left (driver's side) and right (co-driver's side) windows are operable down to 6 inches. All other windows are inoperable.
- 15) **Siren / Strobe lights / PA System / External Listening System** has been added to the vehicle.

### Other Information:

**Testing:** All ballistic materials have been tested by independent laboratories in the USA; such as, H.P. White Laboratory or Southwest Research Laboratory.

**Warranty:** International Armoring Corporation ("IAC") warrants the opaque and transparent armor materials for a period of 24 months (2 year) from the date of this certificate. Please see your Warrantee Registration Certificate for details.

Signed: \_\_\_\_\_

  
Greg Vidrine  
International Armoring Corporation