




## Quotation & Armoring specifications for CEN BR6.



**Base vehicle- Toyota Land Cruiser 300 B6 Armoring – Vehicle to be supplied by client.**

Type	Class	Weapon/Ammunition	Range	Velocity	Shots	Spacing
Light Armoured Vehicles	B2	9mm 	5	400m/s	3	120mm
	B3	357 magnum 	5	430m/s	3	120mm
	B4	44 magnum 	5	440m/s	3	120mm
Fully Armoured Vehicles	B4+	AK47 ball 7.62 x 39 	10	710m/s	3	120mm
	B5	5.56 x 45 Steel core SS109 round 	10	950m/s	3	120mm
	B6	7.62 x 51 ball 	10	830m/s	3	120mm
	B6+	5.56 x 45 Lead M193 round 	10	980m/s	3	120mm
Amour Piercing	B7	7.62 x 51 AP 	10	820m/s	3	120mm
		AK47 7.62 x 39 AP 	10	715m/s	3	120mm

## **Ballistic Specifications**

Supplier manufactures and supplies B6 armoured vehicles using materials, both opaque and transparent, that meet or exceed the requirements of the European CEN 1522/23 standard (level FB7 for the vehicle rear and sides/FB6 for the firewall and roof) and US NIJ level III or CEN 1063 standards to the level FB6 for opaque areas and BR6 for transparent areas.

### **Armouring stage 1 (Opaque areas)**

All four sides of the passenger compartment and the rear bulk head of the vehicle are protected using high-quality armour steel defeating 7.62x51mm P80 NATO Ball ammunition (U.S. NIJ level III, CEN level FB6) at 0° incidence (90° to the surface) and 10m range according to CEN1063 and CEN1522.

- Calibre 7.62 x 39 mm, FJ/PB/HCl, AK 47 Kalashnikov
- Calibre 5.56 x 45 mm, FJ/PB/SCP, M16 Colt(FB5-FB6)
- Calibre 7.62 x 51 mm, FJ/PB/SC, (FN) "FAL" / "LAR" NATO rifle(FB6-NIJ III)

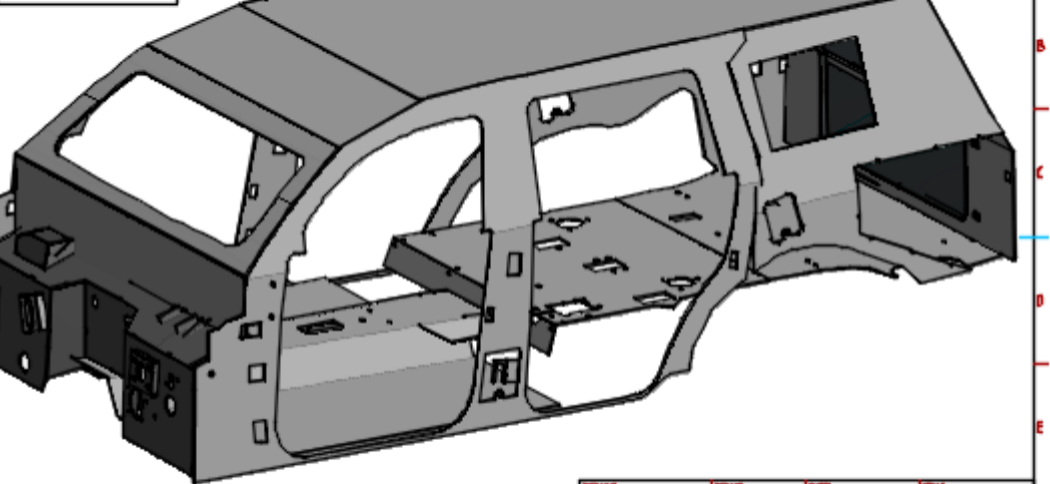
The firewall and the floor are protected using high quality armour steel defeating the following ammunitions upto the 7.62x51mm M80 NATO ball( US NIJ level III,CEN level FB6) at 0° incidence ( 90° to the surface) and 10m range according to CEN1522.

- Calibre 7.62 x 39 mm, FJ/PB/FeC, AK 47 Kalashnikov
- Calibre 5.56 x 45 mm, FJ/PB/SCP, M16 Colt(FB5-FB6)
- Calibre 7.62 x 51 mm, FJ/PB/SC, (FN) "FAL" / "LAR" NATO rifle(FB6-NIJ III)

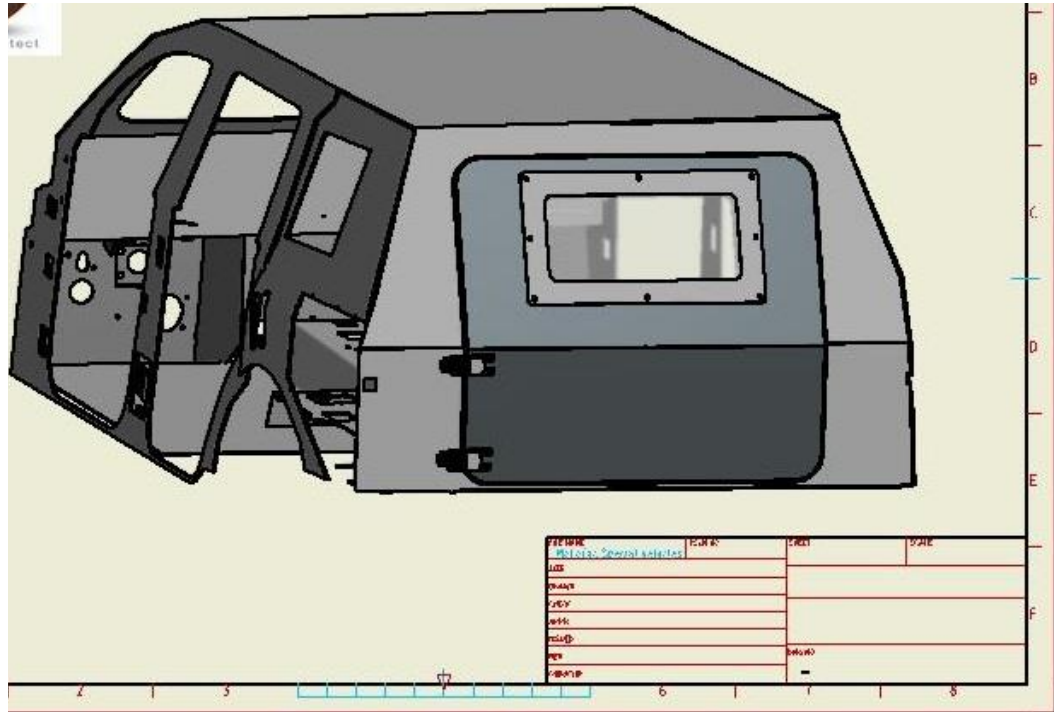
### **Armouring stage 2 (transparent areas)**

**All transparent areas are multi-layer and polycarbonate coated to protect against the following and all lesser weapons/ ammunitions up to 7.62x51mm NATO Ball (US NIJ level III,CEN level FB6) at 0° incidence ( 90° to the surface) and 10m range according to CEN1063.**

- Calibre 7.62 x 39 mm, FJ/PB/FeC, AK 47 Kalashnikov
- Calibre 5.56 x 45 mm, FJ/PB/SCP, M16 Colt(BR5-BR6)
- Calibre 7.62 x 51 mm, FJ/PB/SC, (FN) "FAL" / "LAR" NATO rifle(BR6-NIJ III)



PRO-NUM	PRO-NUM	Q-TY	ZONE
Historic Special vehicles			
BOX			
FRONT			
ENGINE			
WHEEL			
SPRINT			
REV		DATE	



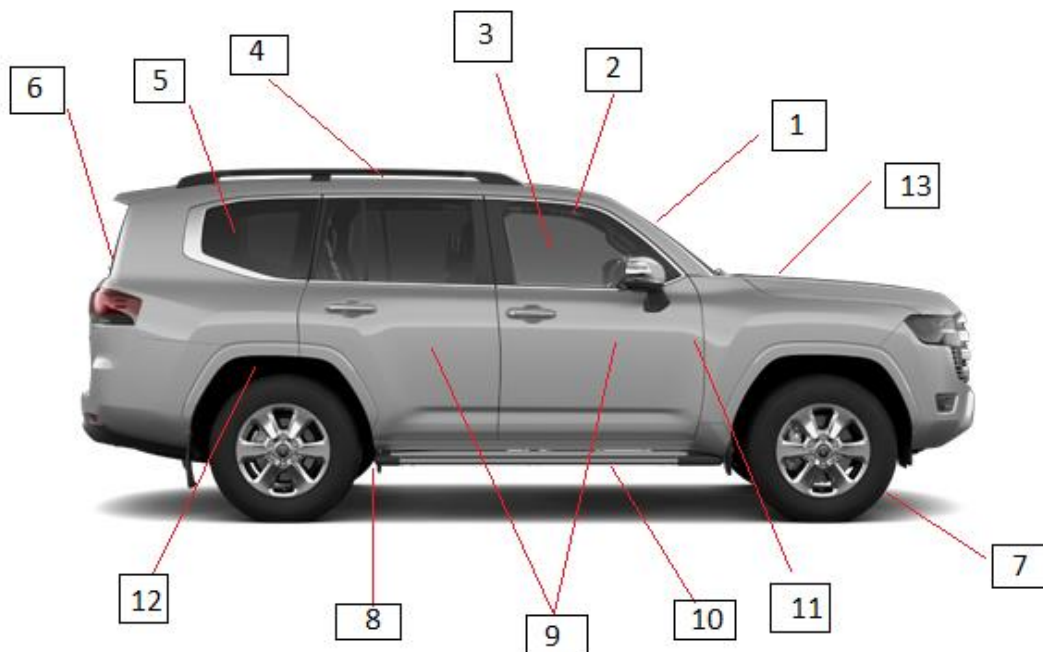
### Standard features & equipments in B6 Level package.

- ECM and battery protection
- Certified glasses for transparent areas
- Fuel-tank protection
- Upgraded suspension to cope with the additional weight due to armouring
- Run-flat systems on all 5 wheels
- B6 certificate for the vehicle and for the opaque & transparent ballistic materials provided on request.
- Radiator protection
- Full under belly protection for blast shield.

### Accessories & additional fittings:

- Fire suppressant semi automatic-
- Brake upgrade
- Retractable door windows driver side
- Suspension upgrade – stage 2 (HD antiroll bars)
- Suspension upgrade – stage 3 (high performance springs and dampers for high-speed driving)
- Bull-bar

- Codan NGT VR
- Thuraya SG-2520 kit
- Video recording (basic kit)
- Video recording/surveillance equipment
- Public Address system, Police siren, Front and back strobe lights, Two way intercom
- Tyre upgrade Heavy duty
- Dual battery system



**Armouring Specification:**

- 1. Bullet proof Wind shield for protection against bullets and blasts.**
- 2. Overlap and bullet catcher enhances the security and stability of small areas between the pillars, posts and window frames.**
- 3. Door glasses replaced with transparent armor OEM curved shape.**
- 4. Ballistic Armoring Roof 60°, Body 90° Armoring.**
- 5. Glass replaced with transparent armor Glass.**
- 6. Rear emergency door with Armor glass enhanced by Heavy duty hinges .**
- 7. Run flats installed on all wheels. Forced drive running is stabilized even if tire goes flat.**

8. Fuel tank armored from underneath the vehicle.
9. All four doors armored using ballistic material and all doors to have overlap system with returns to ensures complete protection from spacing between armor plate and transparent armor.
10. Under belly production for complete compartment against blast .
11. Door hinges reinforced from interior of door and frame of vehicle to reduce stress of weight added.
12. Upgraded Suspension components are reinforced as necessary to compensate for additional weight of the vehicle.
13. The battery and control module are protected using ballistic steel.







### **Quality control:**

All materials used in the production of the cabin were successfully tested against projectiles and explosives by independent laboratories.

Test reports can be presented upon request or during a factory visit.

The armoring of the vehicle provides protection against a wide range of projectiles and explosives. However, complete protection is not possible for reasons of design and modern military weapon technology.

An armoring certificate confirming the level of protection will be issued by Supplier in addition to the international certifications of the armoring components used in the manufacturing process.



### **Armoring process:**

- Once the client's vehicle and deposit have been received, a work order is put into effect describing the materials and levels of protection that the owner of the vehicle has requested. It is at this point that the armoring process can begin.
- Quality controller and Production Manager will Pre-check the Vehicle on defects on arrivals.

### **Process 1: Vehicle Dismantling**

- The Vehicle is dismantled completely, exposing only the frame to allow the work to begin.

### **Process 2: Preparation**

- Measurements of floor, ceiling, doors and firewalls are taken to fabricate the ballistic parts required to cover and protect each area with opaque armor (steel armor plate and or light weight composites) to all doors, side walls, rear area, roof and the fire wall.

### **Process 3: Upgrading**

- The fuel tank is removed to protect it with ballistic material and cover it with a water-resistant coating.. Suspension and braking systems of the vehicle are assessed and are modified to support the added weight caused by the armor. Other armoring options for the vehicle are also installed at this time

### **Process 4: Opaque Armoring**

- Vehicle's armor plates are stitch-welded using high-intensity MIG welders. The above process ensures the structural integrity is un-compromised by thermal and chemical variations of the material.

### **Process 5: Transparent Armoring**

- Standard window glasses are replaced with NIJ/CEN/STANAG tested Multi-layered ballistic glasses. The thickness of the ballistic range between 39mm to 80mm. Each piece is curved to fit into the window frames with a precision that results in a more reliable window and does not put additional strain on the glass.

### **Process 6: Reassembling**

- Finally, we replace the interior of the vehicle with careful attention to maintaining the original appearance. Now the vehicle is fully armored, yet the interior and exterior of your vehicle look almost exactly as they did before. Our technicians pay special attention to small details in order to ensure the beauty and quality of the finished product.

# Certified Material for Armoring: BULLET PROOF GLASS:

## ➤ LUMI, AGP AND GLASS SHIELD – UAE AND USA



**H.P. White Laboratory, Inc.**  
An Intertek Company

### Ballistic Resistance – Test Report

**LumIGlass Industries LLC**  
Attention: Mahmoud H. Isweh  
Client: P.O. Box 113744  
Al Quoz Industrial Area 4  
Dubai, United Arab Emirates

**Date of report:** 18 August 2015

**Report prepared by:** Ashley Gowland, Customer Operations Coordinator

**Report reviewed by:** Wesley Mason, Manager of Technical Operations - Hard Armor

**Test method and supporting documentation:** Per Customer Instructions  
EN 1063, Level B66

**Job number:** 000004637

**Date of sample receipt, shipping method, identification information, and inspection results:** The sample(s) were received on 17 August 2015 via UPS. Sample item(s) were identified as laminated transparencies, code HPC/LUB64. The test sample(s) were inspected prior to testing and no anomalies were discovered.

**Date of testing and location:** Testing commenced on 18 August 2015, at the H.P. White Laboratory, Inc. facilities located at 3114 Scarborough Road, Street, Maryland.

**Date of test completion and sample disposition:** Testing concluded on 18 August 2015; sample(s) will be discarded.

**Test data transmittal method and storage location:** This test report and test data were transmitted via email in a manner compliant with ISO 17025 requirements. Permanent electronic and hardcopy files are maintained in accordance with HPWL data storage policy on data storage systems, filed by job number.

**Revision number and date:** NA

**Disclaimer:** Testing was performed on sample(s) provided by the client. H.P. White Laboratory, Inc. holds no responsibility for sample selection methods. This report is based on data obtained from testing only the sample(s) submitted, and should not be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality or performance of any other items of the same, or similar, design. This report must not be used by the client to claim product certification, approval, or endorsement by NMAP, NIST, or any agency of the Federal Government. This testing was performed by H.P. White Laboratory, Inc. to client specification, and the test results are the property of the client, who holds all rights of reproduction or publication of this report and related test data.

**International control statement:** Information contained herein may be subject to the Export Administration Regulations or the Arms Export Control Act and the International Traffic in Arms Regulations. They may not be transferred, re-sold, diverted, transferred, transhipped, made available to a third country or dual national, or otherwise disposed of in any other country outside of its intended destination, either in original form or after being incorporated through an intermediate process into other data, without the required approval from the U.S. Government.

LumIGlass Industries LLC  
Attention: Mahmoud H. Isweh  
18 August 2015  
HPC/LUB64

### Test Procedures

**Ballistic Resistance Testing:** All testing was conducted on an indoor range at ambient conditions in accordance with your instructions and the general provisions of EN 1063. Testing was conducted at throat level B66, using caliber 7.62x51mm, 149 grain, M80, Ball ammunition. The test sample was positioned 32.8 feet from the muzzle of the barrel to produce zero (0) degree obliquity impacts. Photoelectric infrared screens were located at 23.5 feet and 26.5 feet which, in conjunction with electronic chronographs, were used to compute bullet velocities at 25.0 feet forward of the muzzle. Penetrations were determined by visual examination of the 0.001 inch thick aluminum foil witness plate, placed 20.0 inches behind and parallel to the test sample. Table I provides a summary of information on the attached data record(s).

Table I: Ballistic Resistance, Summary of Results

Sample Number	Thickness (in.) (a)	Weight (lbs.)	Ballistic Threat			Results		
			Caliber	Obliquity	Shots (b)	Velocity (fps)	Max	Min
LU 61506-001	1.604	49.6	7.62, M80	0°	3	2730	2720	0
LU 61506-002	1.604	49.6	7.62, M80	0°	3	2730	2698	0
LU 61506-003	1.605	49.6	7.62, M80	0°	3	2730	2698	0

(a) Based on an average of four corner thicknesses  
(b) 3 shots/3 on 120mm triangle

Report prepared by:  
*Ashley Gowland*  
Ashley Gowland  
Customer Operations Coordinator

Report reviewed by:  
*Wesley Mason*  
Wesley Mason  
Manager of Technical Operations - Hard Armor

H.P. White Laboratory, Inc. | 3114 Scarborough Road | Street, MD 21154 | +1.410.838.6550 | www.hpwhite.com

Consistency

Accuracy

Integrity  
Page 1 of 5

Data is of U.S. origin. Disclosure without required U.S. Government authorization is prohibited.

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### BALLISTIC RESISTANCE TEST

Client: 67:LUMIGLASS INDUSTRIES, LLC  
Job No.: 000004637 Test Date: 8/18/15

#### TEST PANEL

Manufacturer: LUMIGLASS INDUSTRIES, LLC  
Size: 19.75 X 19.75 (in.)  
Thickness: 1.603, 1.603, 1.606, 1.606 in.  
Avg. Thick.: 1.604 in.  
Description: 42mm LAMINATED TRANSPARENCY CODE# HPC/LUB64

Serial No.: LU 81506-001  
Spec: 48.6 lbs.  
Markings: NA  
Via: UPS  
Retention: N/A

Date Rec'd: 8/17/15  
Via: UPS  
Retention: N/A

#### SET-UP

Shot Points: 3 SHOTS ON A 120MM TRIANGLE  
Witness Panel: 0.001" ALUMINUM FOIL  
Obliquity: 0 deg  
Backing Material: NA  
Conditioning: AMBIENT

Primary Vel. Screen: 23.5 ft., 26.5 ft.  
Primary Vel. Location: 25.0 ft. from MUZZLE  
Residual Vel. Screen: NA  
Residual Vel. Location: NA  
Range to Target: 32.8 ft.  
Target Size: 20.0 in.

Range No.: 3  
Temp.: 72 F  
RP: 30.13 in. Hg  
RH: 65%  
Ballst No./Qr: R3/308  
Gunner: CHES  
Recorder: BONSALL

#### AMMUNITION

(1): 7.62mm Ball, M80, 149 gr.  
(2):  
(3):  
(4):

Lot No.: UNKNOWN  
Lot No.:  
Lot No.:

#### APPLICABLE STANDARDS OR PROCEDURES

(1) EN 1063  
(2) LEVEL B66  
(3) REQUIRED VELOCITY: 2690-2756 fps

Shot No.	Serial	Time 1 (sec)	Velocity 1 (ft/s)	Time 2 (sec)	Velocity 2 (ft/s)	Avg. Vel. (ft/s)	Vel. Loss (ft/s)	Shot Vel. (ft/s)	Penetration	Footprints
1	1	1101	2725	1101	2725	2725	5	2720	None	
2	1	1097	2735	1097	2735	2735	5	2730	None	
3	1	1097	2735	1097	2735	2735	5	2730	None	

REMARKS:

FOOTNOTES:

Data is of U.S. origin.  
Disclosure without required U.S. Government authorization is prohibited.

File No.: 000007 LUMI 266 X 19.75 LUMIGLASS HD, 47566 LUMI

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### BALLISTIC RESISTANCE TEST

Client: 67:LUMIGLASS INDUSTRIES, LLC  
Job No.: 000004637 Test Date: 8/18/15

#### TEST PANEL

Manufacturer: LUMIGLASS INDUSTRIES, LLC  
Size: 19.75 X 19.75 (in.)  
Thickness: 1.603, 1.604, 1.606, 1.607 in.  
Avg. Thick.: 1.605 in.  
Description: 42mm LAMINATED TRANSPARENCY CODE# HPC/LUB64

Serial No.: LU 81506-003  
Spec: 48.6 lbs.  
Markings: NA  
Via: UPS  
Retention: N/A

Date Rec'd: 8/17/15  
Via: UPS  
Retention: N/A

#### SET-UP

Shot Points: 3 SHOTS ON A 120MM TRIANGLE  
Witness Panel: 0.001" ALUMINUM FOIL  
Obliquity: 0 deg  
Backing Material: NA  
Conditioning: AMBIENT

Primary Vel. Screen: 23.5 ft., 26.5 ft.  
Primary Vel. Location: 25.0 ft. from MUZZLE  
Residual Vel. Screen: NA  
Residual Vel. Location: NA  
Range to Target: 32.8 ft.  
Target Size: 20.0 in.

Range No.: 3  
Temp.: 72 F  
RP: 30.13 in. Hg  
RH: 65%  
Ballst No./Qr: R3/308  
Gunner: CHES  
Recorder: BONSALL

#### AMMUNITION

(1): 7.62mm Ball, M80, 149 gr.  
(2):  
(3):  
(4):

Lot No.: UNKNOWN  
Lot No.:  
Lot No.:

#### APPLICABLE STANDARDS OR PROCEDURES

(1) EN 1063  
(2) LEVEL B66  
(3) REQUIRED VELOCITY: 2690-2756 fps

Shot No.	Serial	Time 1 (sec)	Velocity 1 (ft/s)	Time 2 (sec)	Velocity 2 (ft/s)	Avg. Vel. (ft/s)	Vel. Loss (ft/s)	Shot Vel. (ft/s)	Penetration	Footprints
1	1	1110	2703	1110	2703	2703	5	2698	None	
2	1	1097	2735	1097	2735	2735	5	2730	None	
3	1	1110	2703	1110	2703	2703	5	2698	None	

REMARKS:

FOOTNOTES:

Data is of U.S. origin.  
Disclosure without required U.S. Government authorization is prohibited.

File No.: 000007 LUMI 266 X 19.75 LUMIGLASS HD, 47566 LUMI

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# STEEL :

## ➤ GUARDIAN, SWEBOR, SSAB AND PROTEK - SWEDEN

### Beschussamt Mellrichstadt

Lohstraße 5, 97638 Mellrichstadt  
Tel.: 09776/70500, Fax: 09776/5457

Swebor StÅl AB  
Föreningsgatan 9  
S-97436 Luleå

### Test Report

Testing of the ballistic resistance of material

Report No. : 21M221B01#, order No.: 21247  
Date of delivery : 11.06.2021  
Tester : Gutsmiedl, Edelmann  
Sample : steel plate (6,6mm x 500mm x 500mm)  
Designation : Swebor Armor 500 SW2100-01B  
Applicant : Swebor StÅl AB  
Manufacturer : Swebor StÅl AB  
Requirement : .223 Rem FMJ/PB/SCP - .308 Win FMJ/PB/SC



Mellrichstadt, 18.06.2021

The test results relate only to the tested samples described in this test report. This test report is only valid with the official seal and correspondence of the report numbers on all pages. Duplication in extracts of this test report is not allowed. It is permitted to pass on this test report without description of the specimen.

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Beschussamt Mellrichstadt Report-No.: 21M221B01#  
Lohstraße 5, 97638 Mellrichstadt Report part-No.: 01  
Test date: 14.06.2021

### Description of the specimen in shooting direction (specification of the manufacturer):

steel plate, SA500, nominal thickness 6,5mm  
Size of the sample (mm): 500 x 500  
Thickness (mm): 6,6  
Total weight determined by the Beschussamt (g) : 13069  
Mass per unit area determined by the Beschussamt (kg/m²) : ----  
Mass per unit area determined by the manufacturer (kg/m²) : ----

### Test conditions and results:

Calibre : 5,56 x 45 (.223 Rem.)  
Bullet type : FMJ/PB/SCP (SS109, M855, MEN, CN348)  
Bullet mass : 4,00g  
Bullet velocity : 950m/s ±10m/s acc.to VPAM FMJ/  
Weapon : test barrel No. 01/01  
Barrel length : 650mm  
Twist length : 178mm  
Shooting distance : 10,00m  
Room temperature : 20°C  
Humidity : 49%  
Sample fixation : test rig 500 x 500mm  
Sample preparation : 24h at 20°C ± 2°C

Hit pattern (preset) : triangle 120mm ± 10mm

No	veloc.	energy	pene-	angle	remarks
v(7,50)	E(7,50)	trat.	[deg.]		
[m/s]	[J]	J/N	[°]		
1	952	1813	N	90,0	bulge without cracks
2	948	1797	N	90,0	bulge without cracks
3	951	1809	N	90,0	bulge without cracks

1.) 90 degree = 0 degree NATO

The evaluation of penetration or no penetration was carried out according to VPAM APR-2006

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Beschussamt Mellrichstadt  
Lohstraße 5, 97638 Mellrichstadt

Report-No.: 21M221B01#  
Report part-No.: 02  
Test date: 14.06.2021

### Description of the specimen in shooting direction (specification of the manufacturer):

steel plate, SA500, nominal thickness 6,5mm  
Size of the sample (mm): 500 x 500  
Thickness (mm): 6,6  
Total weight determined by the Beschussamt (g) : 13069  
Mass per unit area determined by the Beschussamt (kg/m²) : ----  
Mass per unit area determined by the manufacturer (kg/m²) : ----

### Test conditions and results:

Calibre : 7,62 x 51 (.308 Win.)  
Bullet type : FMJ/PB/SC (DM111, MEN, CN347)  
Bullet mass : 9,55g  
Bullet velocity : 830m/s ±10m/s acc.to VPAM FMJ/  
Weapon : test barrel No. 03/04  
Barrel length : 725mm  
Twist length : 305mm  
Shooting distance : 10,00m  
Room temperature : 20°C  
Humidity : 49%  
Sample fixation : test rig 500 x 500mm  
Sample preparation : 24h at 20°C ± 2°C

Hit pattern (preset) : triangle 120mm ± 10mm

No	veloc.	energy	pene-	angle	remarks
v(7,50)	E(7,50)	trat.	[deg.]		
[m/s]	[J]	J/N	[°]		
1	833	3313	N	90,0	bulge without cracks
2	832	3305	N	90,0	bulge without cracks
3	827	3266	N	90,0	bulge without cracks

1.) 90 degree = 0 degree NATO

The evaluation of penetration or no penetration was carried out according to VPAM APR-2006

The test has been carried out according to special requirements of the applicant. A final classification is not applicable.

This report consists of 3 pages and 1 appendix

Beschussamt Mellrichstadt  
Lohstrasse 5, 97638 Mellrichstadt

Appendix 1

### Abkürzungen / abbreviations

Geschossarten / bullet types:	Lead
B	Bleil
FMJ	Vollmessing
CB	Kegelstumpfgeschoss
FMJ	Vollmantel
RM	Rundkopf
SC	Weichkern
HC	Hartkern
WC	Wolframbisibbern
PB	Spitzkopfgeschoss
FN	Flachkopf
WC	Weichkern
SCP	Weichkern mit Penetrator
TPBC	Zwei Stahlkerne
Z	Brandsatz
JSP	Teilmantelgeschoss
JHP	Teilmantelhohlspitzegeschoss
SJSP	Teilmantelgeschoss
SJHP	Teilmantelhohlspitzegeschoss
SWC	Scharfrandgeschoss

### Bemerkungen / comments:

OK	ohne Merkmal	without marks
L	leicht (z.B. leichte Beule ...)	slight (e.g. slight bulge ...)
S	stark (z.B. starker Splitterabgang)	serious (e.g. serious fragmentation)
BR	Beule ohne Riss	bulge without cracks
BR	Beule mit Riss	bulge with cracks
BR/L	Beule mit Riss ohne Lichtdurchlass	bulge with cracks without light
BR/L	Beule mit Riss mit Lichtdurchlass	bulge with cracks with light
SA	Splitterabgang	fragmentation
SF	splitterfrei	no fragmentation
SID	flatter Durchschuss	complete penetration
SpD	Spitzendurchbruch	partial penetration
S	Splitterbildung nach DIN EN'	fragmentation described by DIN EN'
NS	Splitterfrei nach DIN EN'	no fragmentation described by DIN EN'

'DIN EN 1063, DIN EN 1522/1523

### Sonstige / miscellaneous:

J	Ja	yes
N	Nein	no
SI	Splitterindikator	fragmentation witness plate
DI	Durchschussindikator	penetration witness plate
TA	Trefferabstand	hit distance
P3	Flächengewicht	mass per unit area
MH	Multihit	

Revision, 25.06.2020

# HEAVY DUTY SUSPENSIONS:

## ➤ OUTBACK ARMOR, TJM, IRONMAN AND BILSTEIN – AUSTRALIA AND GERMANY



OUTBACK ARMOUR PTY LTD  
 ABN: 45 155 074 089  
 163 Granite Street, Geebung 4034, Queensland, Australia  
 Phone: +61 7 32654142, Email: sales@outbackarmour.com.au  
 www.outbackarmour.com.au



### WARRANTY TERMS AND CONDITIONS

VEHICLE: TOYOTA LANDCRUISER 200 SERIES – SUSPENSION (B6)

Warranty Term: 2 years or 50,000km

Outback Armour warrants its products to be free from faults or defects in workmanship and materials for the warranty term, from the date of sale, where used for the specified intended purpose and application, subject to the following conditions.

Outback Armour's obligation under this warranty is limited to the repair or replacement of the defective product at Outback Armour's option.

This warranty specifically excludes liability for:

- normal wear and tear and product finish.
- any labour, shipping/freight, removal, installation or other incidental costs.
- products used in applications for which the product was not originally designed.
- damage occurring on vehicles loaded in excess of recommended load rating.
- damage caused by alteration, incorrect installation or fitment, lack of or improper maintenance, unsafe or incorrect use, accident or collision, abuse or neglect
- damage caused by failure to install all of the "standard parts" as listed on the Outback Armour technical certificate for that vehicle.

#### Enquiries & Claims

Warranty claims should be made directly with the authorised dealer where the products were purchased from or directly with Outback Armour under approved circumstances. Product may be required to be returned to Outback Armour or sent to a 3<sup>rd</sup> party for warranty inspection.

Replacement product may be delivered to the original purchaser or freighted to the end customer directly by negotiation with Outback Armour at Outback Armour's discretion.

### TECHNICAL SPECIFICATION CERTIFICATE

VEHICLE: TOYOTA LANDCRUISER 200 SERIES – SUSPENSION (B6)

This Outback Armour heavy duty suspension kit has been developed specifically for modified Toyota Landcruiser 200 Series vehicles armoured to B6 level up to 4.5 tonnes.

LOAD RATING: UP TO 4.5 TONNE TOTAL VEHICLE WEIGHT.  
 Weight distribution - Front: 2 tonne / Rear: 2.5 tonne

#### STANDARD SUSPENSION KIT PARTS

PART TYPE	PART NUMBER	QUANTITY	DESCRIPTION
Struts	DAAV0865002	2	Heavy duty – front
			65mm high pressure twin tube. - Height adjustable spring seat.
Shock Absorbers	DAAV0165038	2	Heavy duty – rear
			65mm high pressure twin tube. - Can use upgrade DAAV01600275K coil-over kit.
Coil Springs	DAAV1020007	1	Heavy duty linear rate – front (21mm)
			Heavy duty progressive rate – rear (21mm)
	DAAV01650275K	1	Rear Shock Absorber Coil-Over Upgrade Kit (2 per kit)
			30.5mm multi-stage coils with fitting kit & mounts. Provides additional lift and stability control. Natural rubber – front (4 per kit)
Jounce Stops (front)	DASU4220001	1	60mm high, progressive rate. Assists with component protection and vehicle stability.
Jounce Stops (rear)	DASU4220004	1	Natural rubber – rear (2 per kit) 360mm high, progressive rate. Assists with component protection and vehicle stability.

#### OPTIONAL SUSPENSION PARTS

PART TYPE	PART NUMBER	QUANTITY	DESCRIPTION
Sway Bars	DASU3820001	1	Heavy duty - front
			DASU3820002

Outback Armour does not warrant or imply the suitability of any other vehicle component, original or modified, for the increased load capacity afforded by the suspension.

Outback Armour recommends the installation of at least one sample suspension kit to confirm that product fitment suits the customer's specific application.



## Hinges

### Reinforced Doors and Pillars with Heavy-duty Hinges



# RUNFLAT : ROAD GUARD, HUTCHINSON AND SAFESURE – GERMANY, UAE AND INDIA

## Prüfbericht

Nr. 203.044.01.15

### Kurz Zusammenfassung der Begutachtung eines Reifennotlaufsystems für 18"-Felgen

Abstract of testing of a runflat system for 18" rims

**Auftraggeber:** Europlast – Nycast GmbH  
**Orderer:** Industriestr. 47  
42551 Velbert – Röbbek

**Untersuchungsgegenstand:**  
**test object:**

Reifen – Notlaufsystem, zweiteilig  
gefertigt aus elastomer-modifiziertem Gußpolyamid,  
Tire – run-flat system, two-piece  
manufactured of elastomer modified cast polyamid.



TÜV NORD Mobilität GmbH & Co. KG, IFM – Institut für Fahrzeugtechnik und Mobilität, Adlerstr. 7, D-43307 Essen  
Abkürzung von der Abkürzungsliste des Kraftfahr. Bundesamtes Bundesrepublik Deutschland  
LINKS beginnend für – RWA 1/10004.06

VecoD17sIFMIFM\_SK\_Komponenten\_E/Gütschicht\_ProjektTypZF Fz/GA wlg/2015203.044.15 (Europlast RunFlat 18\_20  
Zoll/Rad 18 Zoll/Prüfbericht\_kurz203.044.01.15.doc



IFM  
Institut für Fahrzeugtechnik und Mobilität



## Prüfbericht Test report

Nr.: 20316MI0003\_kurz

### Kurz Zusammenfassung der Begutachtung eines 17" Reifennotlaufsystems

Short summary of the assessment of a 17" tire runflat system

des Herstellers / manufacturer : Europlast – Nycast GmbH  
Industriestr. 47  
D-42551 Velbert – Röbbek

**Untersuchungsgegenstand:**  
**test object:**

Notlaufsystem PKW/SUV, Felgen 16-20", zweiteilig  
gefertigt aus elastomer-modifiziertem Gußpolyamid,

Runflat system for passenger cars / SUV, rim 16-20", two-piece  
Manufactured of elastomer modified cast polyamid.



PRÜFBERICHT Nr.: 20316MI0003\_kurz

Test report No.:

Hersteller  
Manufacturer : EUROPLAST – Nycast GmbH

Typ : Notlaufsystem PKW/SUV, Felgen 16-20"  
Type : Runflat system for passenger cars / SUV, rim  
Prüfreifen : 285/65 R17  
Tested tire



Blatt 2 von 2  
page of  
Datum / date  
15.01.2016

**Prüfungsdurchführung:**  
**test procedure:**

Das Notlaufsystem wurde nach Herstellervorgaben wie folgt geprüft:  
Montiert auf einer Felge 8J x 17" mit einem Reifen der Größe 285/65 R17 (Bridgestone Dueler HT B40) auf der Hinterachse links an einem Mercedes Sprinter (Radlast: 1400 kg) wurde das System mit luftleeren Reifen 50km mit einer Geschwindigkeit von 50 km/h auf ebener asphaltierter Strecke (ATP Papenburg) gefahren.

The run-flat system was tested in accordance with manufacturer's requirements as follows:  
Mounted on a rim 8J x 17" with tires of size 285/65 R17 (Bridgestone Dueler HT B40) on the rear axle left side on a Mercedes Sprinter (wheel load: 1400 kg), the system was only driven with flat tires over 50 km with a speed of 50 km/h on a leveled and tarmac road (ATP Papenburg).

**Kurz Zusammenfassung**  
**Abstract**

Die oben beschriebenen Anforderungen wurden mit dem Notlaufsystem erfüllt ohne dass es zu einem Ausfall des Systems kam. Die Testfahrt wurde nach 57km abgebrochen.  
Die Fahrzeugreaktionen und das Handling des Fahrzeugs mit drucklosen Reifen auf einer Fahrzeugseite ließen sich durch einen unüblichen Autofahrer beherrschen.

The above-described requirements were fulfilled without leading to a failure of the system. The test drive was aborted after 57 km.  
The vehicle reactions and the handling of the vehicle with unpressurized tires on one vehicle side were manageable even by an unpracticed motorist.

Dieser Bericht umfasst 2 Seiten.  
Die umfassende Begutachtung entnehmen Sie bitte dem Prüfbericht 20316MI0003 des TÜV Nord vom 14.01.2016

This report encompasses 2 pages.  
The comprehensive assessment please refer to the report of the TÜV Nord 20316MI0003 from 2016.01.14

Essen, dated 15.01.2016  
Auftrags-Nr. / order No.: 8113015587, Verz. Nr.: 203.002.16



Institut für Fahrzeugtechnik und Mobilität  
Fachgebiet: Räder – Rollen – Fahrwerk / Tuning

Dipl.-Ing. Mitsaki  
amtlich anerkannter Sachverständiger  
für den Kraftfahrzeugverkehr

Hersteller/ Manufacturer: Europlast – Nycast GmbH  
42551 Velbert-Röbbek

Prüfbericht Nr.: 203.044.01.15



Typ: Reifen – Notlaufsystem, Felge 18" Blatt/Page 2/2

**Prüfungsdurchführung:**  
**test procedure:**

Das Notlaufsystem wurde einer Dauerlaufprüfung unterzogen:  
Montiert auf einer Tiefbettfelge 8.5J x 18H2 (Hersteller: Rimstock, Typ Veco 28388540W1) mit einem Reifen der Größe LT275/65 R 18 (Cooper Discover A/T7) auf der Hinterachse links an einem LKW offenen Kasten (Radlast: 1620 kg) wurde das System mit luftleeren Reifen 50 km mit einer Geschwindigkeit von bis zu 50 km/h ausschließlich auf ebener asphaltierter Strecke (ATP Papenburg) gefahren.

The run-flat system was subjected to an endurance test:  
Mounted on a drop centre rim 8.5J x 18H2 (manufacturer: Rimstock, type: Veco 28388540W1) with tire size LT275/65 R18 (Cooper Discover A/T7) on the left side of rear axle of a truck (open box) (wheel load 1620 kg) the system with flat tire 50 km was driven at speeds of up to 50 km/h on a leveled and tarmac road (ATP Papenburg).

**Kurz Zusammenfassung**  
**Abstract**

Das System erreichte das Testziel von 50 km.

Die Fahrzeugreaktionen und das Handling des Fahrzeugs mit drucklosen Reifen auf einer Fahrzeugseite ließen sich durch einen unüblichen Autofahrer beherrschen.

The system reached the test aim of 50 km.  
The vehicle reactions and the handling of the vehicle with unpressurized tires on one vehicle side were manageable even by an unpracticed motorist.

Dieser Bericht umfasst 2 Seiten.  
Die umfassende Begutachtung entnehmen Sie bitte dem Prüfbericht 203.044.15 des TÜV Nord vom 02.12.2015

This report encompasses 2 pages.  
The comprehensive assessment please refer to the report of the TÜV Nord 203.044.15 from 2015.12.02

Essen, 09.12.2015  
Auftrags-Nr.: 10649

IFM Systeme / Komponenten  
Fachgebiet  
Räder / Reifen / Fahrwerk / Tuning

Dipl.-Ing. Kobus  
amtlich anerkannter Sachverständiger  
für den Kraftfahrzeugverkehr



VecoD17sIFMIFM\_SK\_Komponenten\_E/Gütschicht\_ProjektTypZF Fz/GA wlg/2015203.044.15 (Europlast RunFlat 18\_20  
Zoll/Rad 18 Zoll/Prüfbericht\_kurz203.044.01.15.doc

**Warranty and after sales service**

Armored vehicles manufactured by Supplier carry 3 years warranty on all retrofitted armoured components excluding lubricants and parts which are subject to normal wear and tear. In the event of a problem occurring that cannot be resolved by local technicians, a member of our service team will be available to assist or travel to the location of the vehicle to carry out the repair. Services under the warranty will be provided free of charge to the customer upon immediate written notification by either the dealer or the vehicle owner. It is left to our discretion to replace or repair parts that have become unusable as a result of proven defects in design, material or workmanship.

**Logistics/ Transportation:**

Logistics support can be provided upon request and will be charged separately as per the prices prevailing.

**Pricing:**

Description	Armoring Level	Unit cost/USD	Qty	Total Amount/USD	Lead time
Toyota Landcruiser 300	B6 Level		1		10-15 Days

\*Lead time for one unit TLC 300 B6 Armouring 30-45 days from the date of soft chassis received with receipt of payment confirmation.

**Payment terms****Validity**

30 days

**General Terms and Conditions:**

- Completed vehicles remain the property of Supplier until receipt of full payment.
- Documentations and approvals related to the finished vehicle will be supported by our team members upon receipt of the relevant certificates from the client side.
- UAE law is applicable.