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# Technical Specification

RBR North America Helmet NIJ IIIA - MACH III



shown with Peltor ear defenders

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## **Design**

The MACH III is manufactured using the latest specification aramid fibre, bound in a thermoplastic resin matrix. The unique LBA process ensures a homogeneous, resilient structure ideally suited for ballistic applications.

The helmet has a smooth conformal shape with no protrusions, sharp contour changes or snagging hazards. It is of low bulk and mass. It is coated with a paint system giving durable finish.

The edge is covered with a low profile neoprene rubber extrusion, which provides a forgiving and neat finish. The hard sharp edge of the helmet moulding can soon look untidy with the day to day knocks and bumps of service life. Also, it can cause damage to other less durable items. The rubber edge trim prevents this from happening.

The helmet is fitted with a 4 point harness, secured and fitted with 4 reinforced screws and inserts.

The Harness also absorbs shock in excess of the standards laid down in EN 397.

## **Colour**

The helmet is coated with an epoxy/polyurethane paint system. Standard colours are Black and Olive Drab. Other colours are available on request.

## **Size**

Two basic helmet sizes are offered: Medium and Large. The helmet will fit the central 95% head sizes. The medium fits head sizes 54 to 59cm and the large from 57 to 64cm.

## **Materials**

All materials selected for this helmet are suitable for purpose. LBA has been using these materials for some time and has full confidence in their selection. The aramid fabric is supported by a certificate of conformance and ballistic test data from the manufacturers.

## **Protection Level**

The MACH helmet is available with the following protection level:

V50 – 17 grain fragment 650m/s to STANAG 2920

Bullet resistant to NIJ0108.01 Level IIIA

9mm Remington FMJ 8.0g @ 425 ms<sup>-1</sup> min

.44 Magnum LSWC 15.5g @ 425 ms<sup>-1</sup> min

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## **Warranty**

LBA guarantees the materials and workmanship for a period of 2 years. The ballistic performance of the helmets is guaranteed for 5 years from date of supply. This guarantee is subject to the helmets being used in line with LBA Use and Care instructions.

The performance guarantee may be extended if the helmets are in storage, subject to inspection by LBA of the storage facilities.

## **Quality Assurance**

LBA International Ltd has had its quality system approved BS EN ISO 9001: 2008 and welcomes customer inspection of our facilities.

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