

# Personal Armour

## Helmets, Armour Plates & Tactical Shields

NP Aerospace manufactures an extensive range of ultra-lightweight, high performance personal armour products for defence and law enforcement. Designed to meet the protection requirements of standards including NIJ, products include ballistic helmets, shields and body armour plates. NP Aerospace introduced the first combat helmet for the British army in 1979 and has continued to extend the range of personal armour products used by world leading defence organisations.

### Ballistic Helmets

NP Aerospace ultra-lightweight composite helmets combine class leading fragmentation performance with advanced ergonomics for tactical and combat operations. High cut and full cut options are available in multiple sizes and colours weighing from 1.25kg. Helmets meet the protection requirements of NIJ 0106.01 (up to Level IIIA). Optional tactical add-ons are available. NP Aerospace has manufactured over 1 million helmets for UK, Canada, Italy and NATO allies.



### AC915 Helmet Ballistic Performance and Technical Specifications

<b>Fragmentation and Ballistic Protection</b>	17 gr FSP V <sub>50</sub>	16 gr Sphere V <sub>50</sub>	9mm FMJ Vproof
	>735 m/s	> 620 m/s	436 m/s
<b>NIJ Compliance</b>	NIJ 0106.01 compliant: NIJ Level 2 (9mm, .357 Mag), NIJ Level 3A (.44 Mag)		
<b>Compression Resistance</b>	Front to back	Side to Side	Top to Bottom
	1100N	1100N	1500N
<b>Shell Flammability Protection*</b>	Flammability protection to CAN/CSA 22.2 Test A and B		
	*Available on request		
<b>Blunt Trauma Protection</b>	Exceeds U.S. Army 10 fps ACH impact standards using D3O®		
	Ambient, High & Low Temperature Performance (-10°C, +53°C)		

### Colours



### AC915 Helmet Weights and Sizing Information

Size	Weight		Helmet Sizing			Coverage	
	Helmet Only	Helmet with NVG Shroud, Rails and Bungees	Circumference	Length	Width	Surface Area	Head Coverage
Small	1.08 kg	1.23 kg	530 - 570mm	up to 190mm	up to 155mm	899cm <sup>2</sup>	507cm <sup>2</sup>
Medium	1.10 kg	1.26 kg	560 - 600mm	190 - 200mm	155 - 165mm	958cm <sup>2</sup>	577cm <sup>2</sup>
Large	1.17 kg	1.31 kg	590 - 640mm	200 - 210mm	165 - 175mm	1058cm <sup>2</sup>	628cm <sup>2</sup>

### Ballistic Armour Plates

NP Aerospace plates include covert variants for special operations, lightweight buoyant plates, and hard armour plates with high grade ceramics to meet NIJ Level IV+ special threats. They are available in stand-alone and in-conjunction configuration, shooter cut and full cut and weigh from less than 1 kilogram for a medium plate. Plates meet the protection requirements of NIJ 0101.04 and NIJ 0101.06 and other threats ranging from 5.56x45mm to 7.62x63mm. NP Aerospace has manufactured hundreds of thousands of body armour plates to British and Canadian Armed Forces.



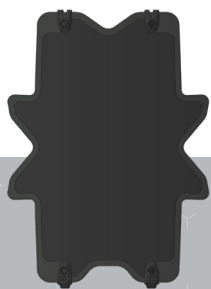
### Plates Ballistic Performance

Product Line	NIJ Standard	Config	Threats											Multi Hit	Weight per medium plate (kg)	Weight per medium plate (lb)			
			Level 2A, 2, 3A + Special Threats				Level 3 + Special Threats					Level 4 + Special Threats							
			9 mm	.40 S&W	.357 Mag	.44 Mag	7.62mm M80 Ball	5.56mm M193	7.62mm MSC PS Ball	7.62mm LPS	5.56mm SS109	5.56mm "Green Tip"	5.56mm NATO				7.62mm AP M2	7.62mm BZ API	7.62mm B32 API
LWB Covert IC06	101.06	IC 1	✓	✓	✓	✓	†	✓	✓	†							3	0.86	1.90
LWB Covert SA06	101.06	SA	✓	✓	✓	✓	†	✓	✓	†							3	0.91	2.01
LWB III+ IC06	101.06 (Certified)	IC 1	✓	✓	✓	✓	✓	✓	✓	†							6	1.02	2.25
LWB III+ SA06	101.06	SA	✓	✓	✓	✓	✓	✓	✓	†							6	1.08	2.33
LWA III+ 109 IC06	101.06 (Certified)	IC 1,2	✓	✓	✓	✓	✓	✓	✓	†	✓	✓	✓				6	1.67	3.68
LWA III+ 109 IC06 Alumina	101.06	IC 1,2	✓	✓	✓	✓	✓	✓	✓	†	✓	✓	✓				6	1.8	3.97
LWA IV- SA04	101.04	SA	✓	✓	✓	✓	†	✓	✓	†	✓	✓	✓		✓		2	2.02	4.45
LWA IV- SA06	101.06	SA	✓	✓	✓	✓	†	✓	✓	†	✓	✓	✓		✓		2	2.16	4.76
LWA IV+ SA04	101.04	SA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	1	2.35	5.18
LWA IV+ SA06	101.06	SA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	1	2.49	5.49
LWA IV SA06	101.06	SA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	3.01	6.63

IC: In Conjunction; SA: Stand Alone; 1: With approved Soft Armour; 2: With approved carrier; ✓: IAW NIJ 0101.06 or NIJ 0101.04; †: Stops round, exceeds NIJ BFD; ‡: IAW NIJ 0101.06 at reduced velocity

### Tactical Shields

NP Aerospace tactical shields offer lightweight multi-hit bullet and blast protection for high-risk tactical teams to NIJ Level III + special threats. A range of designs are available with viewports, weapon rests, and adjustable lightweight ballistic handles for optimum manoeuvrability. RAID Lighting and camera systems can be fitted. Shields meet the protection requirements of NIJ 0108.01 Level III+ Special Threats including 5.56x45mm M193 & 7.62x39mm M43/M67. They offer lightweight protection at 3.28 psf (16kg/m<sup>2</sup>) and blast fragmentation at 17gr FSP V50 >1400m/s.



**Tactical - Large**  
915 x 690mm  
10.0kg



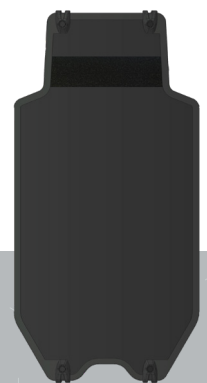
**Tactical - Small**  
715 x 590mm  
7.2kg



**Short**  
705 x 355mm  
6.2kg



**Long**  
1105 x 355mm  
8.2kg



**Large**  
1205 x 605mm  
14.5kg