

4030 ELITE

Bomb Disposal Suit and Helmet System

The 4030 ELITE Bomb Suit and Helmet System is the latest addition to the NP Aerospace Bomb Disposal Suit portfolio. The ultra-flexible and scalable suit offers 360° protection from all aspects of blast. It has been developed in response to extensive global user feedback and is certified to NIJ 0117.01 by the Safety Equipment Institute. Many new design features have been added to improve survivability and ergonomics, and aid faster donning and doffing. Protection is balanced across critical areas, providing an optimum performance to weight ratio.



Ballistic and Blast Performance

Certified to NIJ 0117.01 requirements, delivering class leading protection at low weight.

Optimum Maneuverability

A patented, articulated breastplate provides maximum maneuverability including bending and crouching. Seams resist ruptures and blasts and a Nomex® outer layer provides water resistance and fire protection. A patented Quick Release System enables the suit to be removed in less than 30 seconds.



Enhanced Survivability

Blast testing against NIJ 0117.01 ensures optimum survivability and pressure reduction. Suits also undergo impact attenuation and environmental testing. High protection across the torso and neck ensures blast forces are deflected and fragments are absorbed.

Ergonomic Design

Easy access trouser zips enable faster donning and doffing wearing boots. Load spreading shoulder strap system and waist cummerbund improves user comfort.



Emergency Extraction

Drag rescue system enables rapid emergency extraction and high visibility markers allow first responders to gain immediate entry to critical areas of the body.

System Integration

Flexibility is offered for operators and procurement teams as the base suit allows for easy customization and interoperability with additional systems and electronics (comms, lights, cooling etc.). Spine protection and fan assisted vent systems are included as standard.

Advanced EOD Helmet

An ergonomic EOD helmet offers high protection and a wide field of view, with an active demisting visor to improve situational awareness.



Colours

Paris Blue

Sage Green

Desert Tan

Base Suit - Ballistic Protection

The 4030 ELITE Suit and Helmet pass or exceed the following NIJ 0117.01 V50 specification:

Zone	Area Description	Minimum V50 Performance		
		.22 cal FSP	.30 cal FSP	.50 cal FSP
A	Thorax/Abdomen-Front Medial	N/A	1100 m/s 3609 ft/s	750 m/s 2461 ft/s
	Neck and Pelvis-Front Medial			
B	Face-Opaque	775 m/s 2542 ft/s	N/A	N/A
	Face-Transparent			
C	Head	625 m/s 2051 ft/s	525 m/s 1722 ft/s	N/A
D	Legs-Upper Front	625 m/s 2051 ft/s	550 m/s 1804 ft/s	N/A
E	Thorax/Abdomen-Front Lateral	550 m/s 1804 ft/s	525 m/s 1722 ft/s	N/A
	Neck and Pelvis-Front Lateral			
F	Thorax/Abdomen-Rear	525 m/s 1722 ft/s	500 m/s 1640 ft/s	N/A
	Arms-Upper/Lower			
	Neck-Rear and Legs-Lower Front			
G	Legs-Rear	350 m/s 1148 ft/s	300 m/s 984 ft/s	N/A

Blast Protection

Tested in accordance with NIJ 0117.01 requirements
No penetration in each of the following scenarios

Blast Scenario	% Reduction in Blast Overpressure at Chest	% Reduction in Blast Overpressure at Ear
0.567kg C4 @ 0.6m kneeling (NIJ 0117.01)	99%	99.7% to 99.8%
1kg PE4 @ 1m standing	94.5% to 97.1%	98.7% to 99.6%
2kg PE4 @ 2m standing	86% to 93.2%	97.3% to 98.0%
10kg PE4 @ 3m standing	87.7% to 93.1%	97.2% to 98.4%

Survivability rating exceeds 99% for all scenarios according to the Bowen Pressure Curve - mitigating potential for lung injury.

Weight (Medium Suit)

Suit (Inc. frontal Plate)	27.3 kg	60.02 lbs
With Helmet	32.25 kg	71.10 lbs
With Fan System	35.35 kg	77.93 lbs

Suit Sizing Guide (Metric/Imperial)

Suit Size	1 (XS)	2 (S)	3 (M)	4 (L)	5 (XL)
To fit Height	150-160cm (4'11" - 5'3")	155-170cm (5'3" - 5'7")	165-180cm (5'7" - 5'11")	175-190cm (5'11" - 6'3")	185-200cm (6'3" - 6'7")
To fit Chest	82-92cm (32"-36")	92-102cm (36"-40")	102-112cm (40"-44")	112-122cm (44"-48")	122-132cm (48"-52")
To fit Waist	62-72cm (24"-28")	72-82cm (28"-32")	82-92cm (32"-36")	92-102cm (36"-40")	102-112cm (40"-44")
Inside Leg (max)	75cm (29.5")	75cm (29.5")	80cm (31.5")	85cm (33.5")	90cm (35.4")