

# 4030 ELITE Bomb Disposal Suit

## 4030 ELITE SUIT OPTIMUM PROTECTION AND FLEXIBILITY



- PATENTED TWO PULL QUICK RELEASE SYSTEM FOR EMERGENCY REMOVAL & EXTRACTION
- ERGONOMIC HELMET DESIGN FOR ADVANCED OPTIMAL PERFORMANCE
- CERTIFIED TO THE NIJ 0117.01 PUBLIC SAFETY BOMB SUIT STANDARD BY THE SAFETY EQUIPMENT INSTITUTE
- USER CONFIGURATION SYSTEM, ALLOWING THE ATTACHMENT OF THE LATEST EQUIPMENT
- FASTER DONNING AND DOFFING

The 4030 Elite is our highest performance bomb disposal suit delivering unrivalled protection and mobility. The user configurable suit offers 360 degree protection from the four main aspects of an explosion: fragmentation, overpressure, blast and wind and heat radiation. Developed in response to customer feedback and using the latest technology, it is certified to NIJ 0117.01 Public Safety Bomb Suit Standard by the Safety Equipment Institute.

The 4030 Elite delivers improved survivability and ergonomics and accelerated donning and doffing. Protection is enhanced across critical areas such as the neck and torso providing an optimum performance to weight ratio. The highly adaptable suit allows for optional customization with mix and match jacket and trouser sizing options and interoperability with the latest user communications and electronics, eliminating the need for a full scale technology upgrade.

### CORE BENEFITS



#### Advanced Protection

The 4030 Elite incorporates multi-density construction that protects against tearing from blast wind and mitigates against the impact of overpressure, fragmentation and fire and water ingress.



#### Enhanced Ergonomics

Patented articulating frontal plate allows wide range of movements, with cutting edge technology to improve weight distribution and reduce operator fatigue.



#### Optimum Survivability

High protection across critical areas such as the torso and neck ensures blast forces are deflected and fragments are absorbed.



#### Proven Beyond Doubt

The 4030 Elite has been certified against the NIJ 0117.01 Public Safety Bomb Suit Standard by the Safety Equipment Institute.

### FULLY CBRN GARMENT COMPATIBLE

When used with the optional CBRN Visor, the 4030 Elite works with leading theatre-proven CBRN protection systems to deliver a complete EOD CBRN protective solution. The CBRN Visor features a slightly wider surface area to accommodate a CBRN facemask, whilst an air purification system attaches to the MOLLE strips on the rear of the suit jacket.



### COMPONENTS AS STANDARD

#### JACKET AND TROUSERS

- Protects against ruptures, blast, fire and water ingress
- Common base unit with interchangeable outers and mix and match sizing options
- Patented quick release system in both jacket and trousers (Jacket within 30 secs, full suit within 60 secs)



#### BREASTPLATE

- Hybridised composite construction, for ultimate ballistic and structural performance and low mass
- Patented, articulated three-piece design enables a wide range of movement
- Convex design at the collar deflects blast wave away from the body and protects the torso and neck



#### SPINE PROTECTION

- Dedicated external pocket on back of jacket includes NIJ specified spine protection pad to protect against blunt trauma
- Pocket creates space within the suit to increase user mobility and comfort



#### HELMET

- Wide field of view
- Demisting visor
- Single handed visor operation
- Impact testing in accordance with NIJ 0117.01



### RECOMMENDED UPGRADES

- Communication Systems
- Cooling Systems
- CBRN Options
- EOD Tools and Accessories
- Body-Worn Monitoring Systems
- Hydration Systems
- Ballistic Hand and Boot Protection



### SPECIFICATION

The 4030 Elite is available in five sizes: extra small, small, medium, large and extra large.

#### COLOURS



#### 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-Front Medial			
	Pelvis-Front Medial			
B	Face-Opaque	775 m/s 2542 ft/s	N/A	N/A
	Face-Transparent	625 m/s 2051 ft/s		
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-Front Lateral			
	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			
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 @ 1m Standing	86% to 93.2%	97.3% to 98.0%
10kg PE4 @ 1m 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

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

