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**SCOPE**

This specification establishes requirements and specifications for combination ballistic body armor intended to protect a human torso against gunfire. Armor shall be designed to;

- provide protection to vital organs
- cover front, back and side areas of torso
- provide wearer protection with comfort and minimum loss of mobility

**APPLICABLE LAWS and INDUSTRY STANDARDS**

Specifications, standards and regulations referenced in this document in effect on the opening of the invitation for bid, form a part of this specification.

**1.1 LAWS and REGULATIONS**

None listed

**1.2 INDUSTRY STANDARDS**

None listed

**TECHNICAL REQUIREMENTS****1.3 CERTIFICATION**

1.3.1 Armor shall be listed on the Compliant Products List by National Institute of Justice (NIJ) for Ballistic Level IIIA per standard 0101.06.

1.3.2 Armor shall be listed for sizes C1, C2, C3, C4 and C5 as defined by NIJ.

**1.4 PROTECTION/THREAT LEVEL**

1.4.1 Protection level for Ballistic shall be Level IIIA.

1.4.2 Armor panels shall have areal density  $\leq 1.15$  pounds per feet squared and thickness  $\leq 0.30$  inches.

**1.5 CONFIGURATION**

1.5.1 Carrier shall be designed to facilitate removal of front panel, back panel and optional 5 by 8 inches hard or soft trauma plate.

1.5.2 Armor shall be concealable type.

1.5.3 Adjustable elastic shoulder and side straps shall be provided for proper fitting and female version shall be configured with appropriate contouring.

**1.6 ARMOR PANELS**

1.6.1 Front armor panel shall provide coverage from the collarbone to the waist without causing 'push up under the chin' when wearer is seated.

1.6.2 Back armor panel shall fully cover the back area.

1.6.3 Front armor panel shall have extended sides and overlap back ballistic/stake panel by  $\geq 2$  inches.

1.6.4 Armor panels shall provide full coverage for front, back and sides without restricting arm movement.

1.6.5 Armor panels shall be constructed of one piece material without separable layers.

1.7 CARRIER

- 1.7.1 Carrier shall be color matched, machine washable, lined with breathable material and have pockets in the front and back to securely retain armor panels.
- 1.7.2 Each pocket shall facilitate unrestricted insertion and removal of armor panels.
- 1.7.3 Pockets shall have a secure closure to retain armor panels during body movements.
- 1.7.4 Five inches by eight inches hard or soft trauma plate pocket shall be front external top loading.
- 1.7.5 Shoulder straps shall be between two and 2.5 inches wide and attached with "Hook and Loop" type fastener to the front portion.
- 1.7.6 Carrier shall have adjustable elastic straps on each side under the arms for closure.
- 1.7.7 Side straps shall attach to the front section by mating "Hook and Loop" type fasteners.
- 1.7.8 Side straps shall prevent "curl-ups" and allow for a  $\geq 4$  inch circumferential adjustment while maintaining overlap.
- 1.7.9 Carrier shall have a back shirttail and a front shirttail that accommodates trouser fly.
- 1.7.10 Carrier color to be identified in Purchase Order and available colors shall include white, black, dark blue, tan, olive drab green or dark green.

1.8 SIZES

- 1.8.1 Unless otherwise noted, body armor sizes shall be consistent with recognized United States garment retail measurements/tolerances as shown in Table 1.
- 1.8.2 Each size shall have two inch length difference between Short (S) and Regular (R), and between Regular and Long (L) and each Regular size shall be available in lengths of 'Regular +1 inch' and 'Regular -1 inch'.

*Table 1: Body Armor Sizes*

SIZE	LENGTH	CHEST
(C1) EXTRA SMALL (XS)	S/R/L	30–32
(C2) SMALL (S)	S/R/L	34-36
(C3) MEDIUM (M)	S/R/L	38–40
(C4) LARGE (L)	S/R/L	42–44
(C5) EXTRA LARGE (XL)	S/R/L	46–50
SPECIAL ORDER	Dimensions as provided	Dimensions as provided