

FW71

Ultra-Light Weight Hard Ballistic Plate

Protection Level: ESAPI/ESBI – 7.62X54R API-B-32 (Dragonov AP-I)

The real and most dangerous ballistic threat to American soldiers.

Complies to Us Army spec CO/PD 04-19H appendix D (DoD Hard Armor Standard FAT protocol).



Technical Approach

Implement Fortwear's state of the art technology at your facilities, including materials, processes, manufacturing methods and QA. We will accompany you to throughout the process to baton handover.

- Using unique technology that adds confinement and internal stress into the ceramics, results in a lower weight product with increased ballistic protection (Improved multi-hit and trauma).
- Arresting the ceramic is gained through incorporation of materials under high temperature/pressure isostatic press.
- Current weight: **7.1 PSF** - Stand Alone configuration (**10-12%** weight reduction in compared to **7.9 PSF** [US ESAPI add on plate (7.0 PSF) In conjunction with Interceptor MTBA (~1 PSF)]).
- High multi-hit capability: withstands up to 4 API-B-32 bullets per insert (ESAPI specification requires 2 stop only at certain statistics)
- High durability: Fortwear's technology allows the inserts to be less sensitive to crack propagation than conventional ceramic inserts.

Operational and Performance Capabilities

- ESAPI: 7.62X54 R API-B-32 threat is considered the most deadly bullet to American soldiers in Afghanistan & Iraq (based on RAND institute report).
- **Stand Alone Single-Curve** (radial) hard plate design
- Can be applied to ESAPI geometry but the ballistic prefers the single-curve geometry.
- Ready for use for the **ESBI (Side plates)** which has single curve geometry.
- High durability, shock and impact resistant Low back face signature than conventional ceramic plates
- Spall mitigation and Anti-Shock protection meets ESAPI U.S. Army Spec.

Rough Order of Magnitude (ROM) and Schedule

Phase 1 – ROM TBD Period of Performance (POP) 5 month

Exit criteria: Manufacturing readiness.

Phase 2 – ROM TBD POP 3 month

Exit criteria: Prototype passes extensive in house testing.

Phase 3 – ROM TBD POP 4 month

Exit criteria: Verification to implementation requirements pass US QA army extensive PDM or FAT test.

Total POP: 12 months; Total Cost: TBD

Products and Deliverables

Phase 1: Prototype optimization plan, manufacturing plan test strategy, materials procurement, sample plates manufacturing and testing

Phase 2: Prototype manufacturing and extensive testing, final prototype 7.1 PSF or less.

Phase 3: Optimization plan for series production, testing at certified lab., approval, ROM pricing for serial production, final technical report.

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