

**Category:** Barrier Materials

**Item Name:** Expeditionary Shelter Protection System (ESPS)

**NSN:** 8340-01-533-1668

**LIN:** N/A

**Part Number (Model Number):** MIL-PRF-32521



**Description:** ESPS is a rapidly deployable, expeditionary ballistic protection from multiple ballistic threats (direct and indirect) that can be installed around 32' x 21' shelter in less than 1 hour. The ESPS provides immediate protection against small arms and fragmentation on day 1 in all battlefield environments. The ESPS is a lightweight, low cost solution, redeployable, reusable, requires no material handling equipment or special tools for system setup.

**Version:** N/A

**Dimension:** The length and width of the ESPS panel have an allowable tolerance of  $\pm 0.25$  inches. The thickness of any individual ESPS panel shall not exceed 0.45 inches and shall not vary over the total area by more than 0.05 inches (flatness/uniformity). Cut out locations shall be within  $\pm 0.10$  inches and cut out dimensions tolerance is  $\pm 0.10$  inches including any edging materials.

**Weight:** ~ 250 lbs per ESPS Panel Module

**Capability:** Provide ballistic protection capability for shelters against small arms and small fragmenting munitions to support Force Provider Expeditionary (FPE) shelters as new add-on capability. ESPS shall be rapidly emplaced, ultra-violet protected, flame resistant, moisture resistant, and non- degradable in extreme temperatures (T), and shall protect against high-powered rifles and medium fragmenting munitions (O). The ESPS is intended to provide ballistic protection and withstand blast overpressure in expeditionary settings, where robust means of protection, such as concrete barriers and sandbags, are not readily available.

**Electrical Power:** None

**Transportability:** Four Soldier portable

**Used By (Service):** Army

**Other Characteristics:** In development, Available in Late FY19 as CTA Item. The ESPS panel module, be it a single panel or combination of panels, shall meet the ballistic requirements set forth in TABLE I at 0-degree obliquity with the specified projectiles under the following conditions: a. Ambient temperature b. At -25oF c. At 130oF

**Support Equipment (Ancillary):**

Primary Inventory Control Authority (PICA): NIMSC 5

Supportability: Class IV - Construction materials, including installed equipment and all fortification and barrier materials.