

Self-Deploying, Lightweight Tactical Tent



Federal Fabrics-Fibers has developed a revolutionary AirBeam® structural support for temporary shelters and a self-deploying AirBeams® shelter tent. The basic shelter, consisting of two modules, can be erected in 10 minutes without any tools and provides a 20' x 24' inhabitable area with a 10' inner height. The shelter is completely modular in 12-foot sections, providing the user with the option of easily adjusting the shelter length based on the tactical situation. The shelter is extremely lightweight, can be stowed in a small cube at

a packing density of 5lb/ft-cu, has an expansion ratio of 38 times, and uses flame-resistant, double-wall construction material. The unique vented double-walled skin reduces the environmental control unit heating and cooling workloads by approximately 50% over a single skinned shelter and can withstand high wind and snow loads. A Chemical/Biological shelter based on this technology is in the early design and performance stages of development and shows great promise.

PHASE III IMPACT

- 157 AirBeam® sets and 6 complete units sold to date, generating \$3,150,000 in sales.
- One patent issued to date.
- \$600,000 in Government/DoD Research and Development Funds.
- \$1 million in Government/DoD Research and Development Funds allocated to render the shelter protective against Chemical and Biological Agents.
- This current AirBeam® Program will save the Army Acquisition Objective (AAO) \$22.5 million.
- Recipient of the Army SBIR Quality Award, Tibbetts Award, and Hammer Award.

