

BAE SYSTEMS

INSPIRED WORK



SEAT WEIGHTS

1-Man:	6 lb (2.8 kg)
2-Man:	10 lb (4.9 kg)
3-Man:	15 lb (7.0 kg)

Wall Style Aircraft Troop Seat

Improved Safety — BAE Systems' crash resistant troop seat is the first Wall Style Troop Seat to be successfully tested in dynamic crash conditions.*

– 30° nose down surpassing 14 Gs
– 10° yaw surpassing 16 Gs
All fabric meets the FAR 25.853 vertical burn test requirements by utilizing inherently flame-resistant textile materials and flame-retardant treated nylon webbings and tapes.

DURABILITY

Utilizing quality fabrics and developing rugged designs distinguishes BAE Systems and its Wall Style Troop Seat from existing in-service, bench-type seats. High strength

aluminum tubing and durable fabric withstands wear and tear and provides superior safety. This provides significant cost reductions in replacement and repair expenses.

OCCUPANT COMFORT

The Wall Style Troop Seat has added comfort by ensuring the occupant's clearance of the seat structure. The seat back is made from a single piece of material designed to minimize equipment snags and provides continuous support.



Lightweight, crashworthy, fixed wing troop seat



Structural Integrity and Seat Comfort

Features	MIL-S-5804 Existing Seat	BAE Systems Seat
Interfaces with Existing C-130, C-141 and KC-135 Installation Points	✓	✓
Fabric Assembly Materials Meets FAR 25.853 vertical burn requirement		✓
Eliminates Spreader Bar Contact with Occupant		✓
Improved Spreader Bar Fitting Connection to Aircraft Support Bar Machined aluminum for better durability		✓
Dynamic Strength Verification Dynamic tests performed meet all requirements		✓
Static Testing Test loads applied with contoured anthropomorphic block to highest standards		✓
Seat Back Configuration Seat back is made from the same Aramid material as the seat pan to provide a continuous, durable support surface that does not snag equipment and is adjustable to accommodate a backpack or parachute		✓
Environmental Testing Compliance to MIL-STD-810F		✓
Inter-Seat Fabric Connectors Continuous zipper connection for each seat bottom and seat back connection for added strength		✓
Fabric Connection Fabric attached with machine screws for ease of repair		✓
Floor Fitting Release Easily grasp any part of the leg tube for quick release		✓
Seat Bottom Double layer for improved strength and wear, adjustable to eliminate sag		✓

USAF Performance Requirements**

Configuration	ATD Weight (lb)	Attitude	Velocity (fps)	Deceleration (Gs)	Qualification Test Result
1-Man, 2-Man, 3-Man	250/occupant	30° Pitch Down	35	14	Pass
1-Man, 2-Man, 3-Man	250/occupant	10° Yaw	44	16	Pass

*Testing conducted using 250 lb anthropomorphic test dummies

** Reference USAF Performance Requirements document PD990315

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