

Environmentally-Sealed Emergency Bailout Parachute

Since the mid-1980s, BAE Systems has been delivering innovative designs to fill the U.S. Navy's request for aircrew emergency bailout parachutes. Our environmentally-sealed designs have provided key advantages and improvements over other emergency parachutes. The current system, known as Thinpack, is qualified by the U.S. Navy with over 5,700 units in service for low altitude (max. 14,000 ft or 4,267 m) use in the P-3 Orion and for high altitude (25,000+ ft or 7,620+ m) use in the E-2C Hawkeye aircraft.

BAE Systems' Durachute® is the commercial-off-the-shelf (COTS) equivalent for the crew-worn Thinpack. The Durachute® parachute system is FAA-certified* in accordance with TSO C-23d and is offered in 36 different configurations with varying AADs, canopy releases and ripcord handles. Hundreds of these systems have been provided to the commercial market and to foreign militaries. The Durachute® system is available to be fully integrated into backpack style or into fixed-wing

and helicopter crew seats. Provisions for the integration of Durachute® are complete for the EH101's crew seats and other helicopters. All systems provide near-zero oscillation performance.

STANDARD FEATURES

- Lightweight - Durachute is 16 lb (7 kg) vs. 31 lb (14 kg) for the NB-8
- Environmentally-sealed for extended service and reduced operational costs (U.S. Navy has proven a seven-year repack cycle)
- One size harness accommodates the 3% female torso thru 98% male (NAWCAD - PAX-96-221-TM)
- Continuous wear capable
- Integrates with various life support equipment
- Compact size eases emergency egress from aircraft

KEY FEATURES

- Significant operational cost reduction
- Lightweight
- Reduced bulk
- One size fits all
- Low descent rate
- Low opening shock



Thinpack

* Basic system certified, special configurations may require additional review if FAA approval is desired. Durachute® is a registered trademark of BAE Systems.

UNMATCHED PERFORMANCE

DURACHUTE® PERFORMANCE

Performance Description	Units	FAA Certification Requirements under TSO C-23d		Navy P-3 Orion Certification Requirements		Navy E-2C Hawkeye Certification Requirements		Overall Demonstrated Capability	
		Min	Max	Min	Max	Min	Max	Min	Max
Recommended Repack Cycle	Days	120 ³		2,007		2,007		2,665	
Descent Rate (with 300 lb (136 kg))	ft/sec (m/sec)	<24		<24		<24		19.8 (6)	
Oscillation Angle	deg.			±15		±15		±5	
Min/Max Suspended Weight	lb (kg)	100 (45)	300 (136)	117 (45)	300 (136)	117 (45)	317 (144)	100 (45)	360 (163) ¹
Min/Max Exit Speed	KEAS	60	150	95	170 ²	95	150	60	180 ¹
Min/Max Useable Altitude	ft-MSL (m-MSL)			1,000 (305)	14,000 (4,267)	1,000 (305)	25,000 (7,620)	1,000 (305)	25,000 (7,620)

1. Data collected during FAA TSO Certification
 2. 10,000 ft-MSL (3, 48 m-MSL) limitation at this airspeed based on P-3 Certification
 3. 5-year repack pending FAA approval



E-2C PSE

U.S. NAVY THINPACK E-2C PSE

Thinpack includes:

- UWARS (Universal Water Activated Release System)
- AAD (Automatic Activation Device), Stabilization Droge
- LRU-16P Bail-out Oxygen System
- Variety of Survival Equipment

OTHER APPLICATIONS

In addition to meeting the stringent military demands of emergency bailout parachutes, the Durachute's® patented environmental-sealing technology has widespread applications in other areas of aviation. Potential applications include:

- Ejection Seat Parachutes
- Tactical Reserve Parachutes
- Ordinance Delivery Systems
- Evacuation Slides
- Survival Equipment Life Rafts

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