

Durachute® AF

A HISTORY OF SAFETY

For over two decades, BAE Systems has been leading the evolution of today's state-of-the-art emergency parachute systems. The vacuum-sealed Durachute® system boasts significant performance gains over previous systems including low opening shock, slow descent rate, responsive steering capability and rock-solid stability. The Durachute® emergency bail-out system achieves these performance enhancements while reducing overall maintenance costs and providing a 5-year repack cycle.

The Durachute® AF incorporates several new features and components

into a harness/ container specifically designed to meet the stringent requirements of the U.S. Air Force Special Operations. Among these new features is a deceleration/stabilization drogue, which permits higher bail-out speeds and a stabilized descent from high altitudes. The deceleration provided by the drogue allows the aircrew to exit an aircraft at 250 knots, if needed. The drogue also ensures proper user orientation for a stable descent from high altitude and an optimal deployment of the main parachute, reducing the potential for malfunctions or injury.

KEY FEATURES

- High-speed, high-altitude egress
- Drogue stabilized descent
- Oxygen system and Automatic Activation Device ready
- U.S. Air Force aircrew equipment compatibility
- Environmentally-sealed for low maintenance and environmental protection
- Lightweight and low bulk
- Superior overall performance



Durachute® AF



USAF BA-18/BA-22



26 ft (8 m) diameter extended skirt Durachute® canopy



28 ft (8.5 m) diameter flat circular C-9 canopy

Durachute® is a registered trademark of BAE Systems.

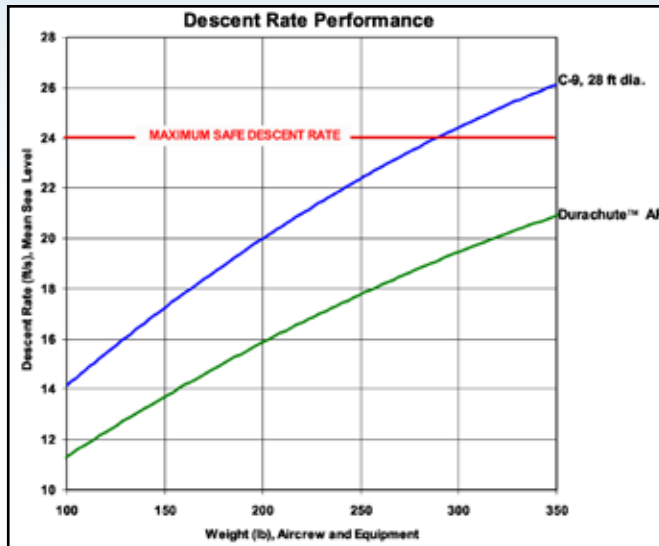
MEETS STRINGENT REQUIREMENTS OF THE USAF

PRODUCT COMPARISON

Performance Criteria	Durachute®AF	BA-18/-22	C-10
Repack Cycle – Days	2008 ⁵	120	120
Max. Suspended Weight – lb (kg)	320 (145)	250 (113)	250 (113)
Descent Rate @ 200 lb (91 kg) – fps (m/sec)	14 (4)	20 (6)	20 (6)
Turn Rate – deg/sec	20	10 ³	10 ³
Forward Glide Ratio – L/D	0.9	0.4	0.4
Max. Opening Altitude ¹ – ft (km) MSL	25K (7.6) ²	14K (4.3) ⁴	14K (4.3) ⁴
Max. Exit Speed – KIAS	250	250	250

1. Altitude greater than 18K ft (5.5K m) requires bail-out oxygen.
2. Durachute® AF incorporates a drogue for deceleration from high-speed and stable descent from high altitude.
3. Turn and glide obtained with 4-line release.

4. Altitude dependant on configuration. Above 14K is an unstabilized descent with increased potential of malfunction.
5. The repack cycle of the Durachute® AF can be increased with a surveillance program potentially up to the life expectancy of a standard parachute system (14 years of service) or greater.



ADDITIONAL APPLICATIONS OF DURACHUTE® PARACHUTES AND ENVIRONMENTAL SEALING TECHNOLOGIES

- Target drone recovery systems
- UAV recovery systems
- Aerial delivery parachute systems
- Tactical reserve parachutes
- Ejection seat parachute systems
- Vacuum-sealed life rafts
- Vacuum-sealed evacuation slides
- Environmental sealing for corrosion/ environmental protection of equipment

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