



SIMULA

Safety Systems
SEI Division

SAFETY EQUIPMENT INTERNATIONAL (SEI)
ISO 9001:2000 REGISTERED
PRODUCT SPECIFICS

DURACHUTE®

Light Weight

17 pounds and low bulk

Extended life and reduced cost

Patented environmental sealing technology protects the parachute from the elements and extends its life. This provides a pack cycle of approximately 5 years, and a canopy shelf life of 27 years, significantly reducing maintenance time and cost

Quick Donning

Design allows the parachute to be quickly donned, easily adjusted, and highly comfortable for both male and female aircrew of all sizes

Steerable Canopy

Steerable canopy opens quickly and smoothly, is deployable at low altitudes, and provides a low descent rate

FAA TSO Certification

Durachute® received FAA TSO certification on January 1, 2000

Military Qualified

Durachute® is the commercial off the shelf (COTS) designation for Thinpack. This version has been extensively tested and qualified under extreme environmental and operational conditions by the U.S. Navy. The Thinpack is also under contract with the U.S. Air Force. High altitude and low altitude applications are available with numerous



U.S. Navy test parachutist flying with Thinpack

Since its founding in 1975, Simula has expanded its expertise and capabilities to become a world leader in safety technology and a renowned innovator of life-protecting designs and products for commercial and governmental applications.

In 1986, Simula responded to a U.S. Navy request for an innovative aircrew emergency bailout parachute. The outcome was an exceptional design that provides key advantages and improvements over other emergency parachutes. This Durachute® (Thinpack is the military designation) is qualified and currently being supplied to the U.S. Navy for low altitude use in the P-3 Orion aircraft. It is being supplied for high altitude or low altitude use in the E-2C Hawkeye aircraft.

SEI, a wholly-owned Simula subsidiary, continues the tradition of helping people survive dangerous situations by offering the Durachute® emergency bailout parachute, for commercial or military aircrew



The Durachute® capability is greatly enhanced by its integration with the new Bail Out CYPRES Automatic Opener made by AirTec GmbH, Safety Systems



Airtec Bail Out CYPRES

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SEI's Durachute®

Emergency Bailout Parachute on the left, shows significantly reduced size compared to the NB-8 emergency bailout parachute



Durachute®

NB-8

Additional performance data

Specifications

Durachute®

Turn Rate (360°)	4 to 6 Seconds
Forward Speed	4 to 8 Knots
Technical Standard Order (TSO) Category	C-23d AS8015-B
Opening Time	300 Pounds, 150 Knots
	2.8 Seconds (65 Knots)
	0.9 Seconds (150 Knots)
Rate of Descent (For 200 pound user)	
	14.7 Feet per second
Rate of Descent (For 225 pound user)	
	18.6 Feet per second
Maximum Weight of User	300 Pounds
Maximum Deployment Speed	150 Knots
Oscillation Amplitude	0°-3° Maximum
Opening Distance, Vertical	
Low-Speed, low-weight	135 Feet
High-Speed, high-weight	80 Feet

Other applications

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

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

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