



Capacity Ratings by Floor Area & Buoyancy

		Floor Area	Buoyancy
<u>ISAF Offshore</u>		Carrying Capacity: 0.096 of the volume of the main buoyancy tubes (3.39 ft ³); 0.372 of the inner horizontal cross-sectional area (4 ft ²)	Persons Definition: naked weight of 165lbs. (75kg.)
<u>SOLAS/USCG</u>	Number of persons permitted to occupy liferaft should be equal to the lesser of:	Total buoyancy tube volume (in ft ³) divided by 3.388 OR The total floorspace (in ft ²) divided by 4 OR The number of people, with an avg weight of 182lbs, wearing life jackets, that can be seated with sufficient comfort & headroom.	Assumed Average Occupant Mass: 182lbs. (82.5kg.) Buoyancy shall be sufficient to support the number of persons permitted with positive freeboard, with one of the two buoyancy chambers deflated.
<u>FAA-TSO C70a</u> <u>/ ETSO-2C70a</u>	Capacity based on usable sitting area of liferaft deck:	<p>Rated Capacity: 3.6ft² per person; Overload Capacity: 2.4ft² per person.</p> <p>OR</p> <p>The number of seating spaces that accommodate the following size, with a min of 8" of back support:</p> <p>OR</p> <p>Demonstrate the rated capacity by providing no less than 3ft² sitting area per person, no less than 14.7" (W) x 8" (H) back support per person, and at least 30%, but not more than 50% of the participants must be female.</p>	<p>Avg. occupant's weight not less than 170lbs. (77.1kg.)</p> <p>OR</p> <p>Type 1 Raft: consists of 2 independent tubes that can support the rated capacity with a min of 12" of freeboard, and a min of 6" freeboard with one tube deflated.</p> <p>Type 2 Raft: If single-tube construction, raft must have internal bulkheads to support occupants out of fresh water if a chamber is deflated, and provide 6" of freeboard when fully inflated.</p>
ETSO-2C505*		<p>Normal rated capacity: number of occupants that can be accommodated when each occupant is provided with a minimum of 3.6ft² (0.33m²) of floor area.</p> <p>Overload rating: nearest whole number of occupants at normal capacity times 1.5, with minimum floor area of 2.4ft² (0.22m²).</p>	<p>An average occupant weight of 200lbs. (90kg.)</p> <p>Minimum freeboard should be:</p> <ul style="list-style-type: none"> a) 12" at normal rated occupancy; b) 6" at normal rated occupancy with the most critical chamber deflated c) a positive freeboard at overload rated occupancy with the most critical chamber deflated.

*EASA Standard for Helicopter Liferafts for operations to or from Helidecks Located in a Hostile sea area.