

ISO 6185-3:2024-04 (E)

Inflatable boats - Part 3: Boats with a length of the hull less than 8 m with a motor power rating of 15 kW and greater

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	3
4	Symbols and abbreviated terms	4
5	Construction and structural requirements	5
5.1	Structural materials	5
5.1.1	General	5
5.1.2	Materials forming the flexible floor and buoyancy tube	5
5.1.3	Wood	6
5.2	Buoyant material used in foam-filled buoyancy tubes	7
5.2.1	General	7
5.2.2	Tests	7
5.3	Lifting the boat	8
5.3.1	General	8
5.3.2	Fittings for lifting of the boat (if applicable)	8
5.3.3	Complete boat overload test	8
5.4	Strength of the boat's structure	8
5.4.1	General	8
5.4.2	Drop test (rigid inflatable boats only)	9
5.4.3	In-water testing	9
5.5	Buoyancy tube attachment strength test (type test only)	11
5.5.1	General	11
5.5.2	Requirement	11
5.6	Strength of principal fitted accessories	11
5.6.1	General	11
5.6.2	Requirement	11
6	Stability and flotation requirements	11
6.1	General	11
6.2	Maximum load capacity	12
6.2.1	Determination methods	12
6.2.2	Crew limit	12
6.3	Offset load test	13
6.4	Buoyancy requirements	13
6.4.1	Total buoyant volume	13
6.4.2	Buoyancy determination	14
6.4.3	Sub-division of the inflatable buoyancy tubes (chambers)	14
6.4.4	Nominal pressures (inflatable buoyancy tubes)	15
6.4.5	Valves (if applicable)	15
6.4.6	Strength of the inflatable buoyancy tube	16
6.5	Level flotation when swamped	17
6.6	Watertightness	17
6.6.1	Openings and flooding	17
6.6.2	Hull (below deck) drainage	17
6.6.3	Watertightness test (not applicable to self-draining boats)	18
6.7	Cockpit draining time assessment (Type VIII boats only)	18

6.7.1	Requirements.....	18
6.7.2	Self-draining test requirement.....	18
6.7.3	Test method.....	18
6.7.4	Quick-draining calculation requirement.....	18
7	Requirements for safe operation.....	18
7.1	Determination of maximum motor power and manoeuvring speed.....	18
7.2	Prevention of falling overboard and recovery.....	18
7.2.1	General.....	18
7.2.2	Location of handholds fitted on tubes of high-speed boats.....	19
7.2.3	Seating safety sign.....	19
7.3	Seating and attachment systems (where offered as a standard or optional equipment).....	19
7.4	Field of vision from the helm position.....	20
7.5	Fire protection.....	20
7.6	Rowlocks and oars.....	20
7.6.1	Requirements.....	20
7.6.2	Abrasion damage.....	20
7.6.3	Prevention from loosening.....	20
7.6.4	Strength of rowlocks.....	20
7.6.5	Use of the rowlocks and oars.....	20
7.6.6	Rowing test.....	20
8	Installation requirements.....	21
8.1	Motor and motor spaces.....	21
8.1.1	Inboard motors.....	21
8.1.2	Outboard motors.....	21
8.2	Ventilation of petrol engine and/or petrol tank compartments (where applicable).....	21
8.3	Electrical installations (where offered as standard or optional equipment).....	21
8.4	Fuel systems.....	21
8.5	Remote steering system (where offered as standard or optional equipment).....	21
8.6	Gas systems.....	22
8.7	Navigation lights.....	22
8.8	Discharge prevention.....	22
9	Equipment to be supplied with the boat.....	22
10	Builder's plate(s) and craft identification number.....	22
11	Owner's manual.....	22
	Annex A (normative) Buoyancy tube attachment tests.....	23
	Annex B (normative) Strength of principal fitted accessories.....	25
	Bibliography.....	27