

#### **World Sailing Offshore Special Regulations**

#### Extract for Category 2 Monohulls

#### **JANUARY 2024 - DECEMBER 2025**

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**Version 1.14 – 25 November 2024** 



#### As Modified for the Marblehead-to-Halifax Ocean Race 2025

#### Because this is an extract not all paragraph numbers will be present

The inspection card is attached as Appendix F below.

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https://www.sailing.org/inside-world-sailing/rules-regulations/offshore-special-regulations/

#### **Language & Abbreviations Used**

Mo - Monohulls

Mu - Multihulls

\*\* - means the item applies to all types of boat in all Categories except 5 for which see Appendix B or 6 for which see Appendix C.

RED TYPE indicates a significant change in 2024.

DOUBLE UNDERLINE TYPE indicates a term defined in Offshore Special Regulation 1.03.1.

ITALIC TYPE indicates a term defined in the Racing Rules of Sailing.

Other than in headings or in offshore special regulation 1.02.1, **BOLD BLACK TYPE indicates a term defined in the Equipment Rules of Sailing.** 

#### BOLD GREEN ITALIC TYPE indicates a Marblehead-to-Halifax Ocean Race 2025 prescription.

Guidance notes and recommendations have been removed from the Regulations and are available on <a href="https://www.sailing.org/inside-world-sailing/rules-regulations/">https://www.sailing.org/inside-world-sailing/rules-regulations/</a>

The use of the masculine gender shall be taken to mean either gender.

Any queries please email: registration@marbleheadtohalifax.com

## **SECTION 1 – FUNDAMENTAL AND DEFINITIONS**

Categories	1.01	Purpose and Use
**	1.01.1	The purpose of the Offshore Special Regulations ( <u>OSR</u> ) is to establish uniform minimum equipment, accommodation and training standards for <b>monohull</b> and <b>multihull</b>
		(excluding proa [asymmetrical catamaran]) boats racing offshore.
**	1.01.2	The <u>OSR</u> do not replace, but supplement, the requirements of governmental authority,
		Classification Society certification, the Racing Rules of Sailing (RRS), Equipment Rules of
		Sailing (ERS), class rules and rating systems.
**	1.01.3	Use of the <u>OSR</u> does not guarantee total safety of the boat and her crew. Particular
		attention is drawn to the description of <u>OSR</u> for inshore racing which includes that
		adequate shelter and or effective rescue is available all along the course. This is not
		included in more onerous <u>OSR</u> categories.
	1.02	Responsibility of Person in Charge
**	1.02.1	Under RRS 3 the responsibility for a boat's decision to participate in a race or
		continue racing is hers alone. The safety of a boat and her crew is the sole and
		inescapable responsibility of the <i>person in charge</i> who shall do his best to
		ensure that the boat is fully found, thoroughly seaworthy and manned by an
		experienced and appropriately trained crew who are physically fit to face all
		weather. The <i>person in charge</i> shall also assign a person to take over his
		responsibilities in the event of his incapacitation.
**	1.02.2	Neither the establishment of the <u>OSR</u> , nor their use by <i>organising authorities</i> , nor the
		inspection of a boat under the <u>OSR</u> in any way limits or reduces the complete and
**	1 00 0	unlimited responsibility of the <i>person in charge</i> .
**	1.02.3	By participating in a race conducted under the <u>OSR</u> , the <i>person in charge</i> , each competitor
		and boat owner agrees to reasonably cooperate with the <i>organising authority</i> and World
	1 02	Sailing in the development of an independent incident report as specified in <u>OSR</u> 2.02.
**	1.03	Definitions, Abbreviations, Word Usage
ጥጥ	1.03.1	Table 1 – Definitions of Terms used in this document

Abbreviation	Description
#	Pound force (lbf)
ABS	American Bureau of Shipping
AIS	Automatic Identification Systems
Coaming	The part of the cockpit, including the transverse after limit, over which water would run when the boat is floating level and the cockpit is filled to overflowing
COLREGS	International Regulations for Preventing Collisions at Sea
Contained Cockpit	A cockpit where the combined area open aft to the sea is less than 50% maximum cockpit depth x maximum cockpit width
Crewmember	Every person on board
DSC	Digital Selective Calling
EN	European Norm
EPIRB	Emergency Position-Indicating Radio Beacon
ERS	World Sailing - Equipment Rules of Sailing
First Launch	Month & year of the first launching when the individual boat, was completed and equipped for sailing
GMDSS	Global Maritime Distress & Safety System
GNSS	Global Navigation Satellite System

`ataa	Orioc
Jacey	ories

GPS	Global Positioning System
Hatch	The term hatch includes the entire hatch assembly including the lid or cover as part of that assembly
HMPE	High Modulus Polyethylene (Dyneema®/Spectra® or equivalent)
IBRD	International Beacon Registration Database
IMO	International Maritime Organization
ISAF	International Sailing Federation – (now World Sailing)
ISO	International Standard Organization or International Organization for Standardization
Jackstay	A <u>securely fastened</u> webbing or rope which permits a <u>crewmember</u> to move from one part of the boat to another without having to unclip a safety harness <u>tether</u>
L <sub>H</sub>	Hull Length as defined by the ERS
Lifeline	Rope or wire line rigged as guardrail/guardline around the deck
LSA	IMO International Life-Saving Appliance Code
LwL	(Length of) loaded waterline
Moveable Ballast	Material carried for the sole purpose of increasing weight and/or influencing stability and/or trim and which may be moved transversely but not varied in weight while a boat is racing
ORC	Offshore Racing Congress (formerly Offshore Racing Council)
OSR	Offshore Special Regulation(s)
Permanently Installed	The item is effectively built-in by e.g. bolting, welding, glassing etc. and may not be removed for or during racing
PLB	Personal Locator Beacon
Rode	Rope, chain, or a combination of both, which is used to connect an anchor to the boat
RRS	World Sailing – Racing Rules of Sailing
Securely Fastened	Held strongly in place by a method (e.g. rope lashings, wing nuts) which will safely retain the fastened object in severe conditions including a 180° capsize and allows for the item to be removed and replaced during racing
SOLAS	Safety of Life at Sea Convention
STCW	Standards of Training, Certification and Watchkeeping for Seafarers
SSS	The Safety and Stability Screening numeral
STIX	ISO 12217-2 Stability Index
Tether	A safety line used to connect a safety harness to a strong point or Jackstay
Variable Ballast	Water carried for the sole purpose of influencing stability and/or trim and which may be varied in weight and/or moved while a boat is racing.
World Sailing	formerly the International Sailing Federation or ISAF

1.03.2 The words "shall" and "must" are mandatory, and "should" and "may" are permissive.

## SECTION 2 – APPLICATION & GENERAL REQUIREMENTS

Categories	2.01	Categories of Events		
**		Organising authorities shall select from one of the following categories and may modify the		
		OSR to suit local conditions.		
	2.01.4	Category 3		
MoMu3		Races across open water, most of which is relatively protected or close to shorelines.		
	2.02	Incident Reporting		
**		The <i>organising authority</i> of a race will establish whether any incidents occurred, which if reported would likely be relevant to evolving the Offshore Special Regulations, the plan review process, or in increasing safety. The <i>organising authority</i> will follow any guidelines issued by World Sailing concerning incident reporting.		
	2.03	Inspection		
**		A boat may be inspected at any time. If she fails to comply with the <u>OSR</u> her entry may be rejected, or she will be subject to protest.		
	2.04	General Requirements		
**	2.04.1	All equipment required by <u>OSR</u> shall:		
**		a) function properly,		
**		b) be regularly checked, cleaned and serviced,		
**		c) if it has an expiry date, it will not have exceeded its expiry date whilst racing,		
**		d) when not in use be stowed in conditions in which deterioration is minimised,		
**		e) be readily accessible, and		
**		f) be of a type, size and capacity suitable and adequate for the intended use and size of the boat.		
**	2.04.2	Heavy items shall be <u>permanently installed</u> or <u>securely fastened.</u>		

SECTION .	<i>,</i> 5.	ROCTORAL TEATORES, STADILITY, TIALD EQUIT FILM
Categories		A boat shall be/have:
	3.01	Strength of Build and Rig
**	3.01.1	Properly rigged, fully seaworthy and shall meet the <u>OSR.</u>
**	3.01.2	Equipped with <b>shrouds</b> and at least one <b>forestay</b> that shall remain connected to the mast
		and the boat while racing (not applicable to boats with free-standing masts).
**	3.01.3	The <b>forestay</b> referenced above shall be sized and connected in a way that ensures it is
		capable of withstanding the full sailing loads independent of any headsail luff load capacity.
	3.02	Watertight and Structural Integrity of a Boat
**	3.02.1	Essentially watertight and all openings shall be capable of being immediately secured.
		centreboard or daggerboard trunks and the like shall not open into the interior of a hull
		except via a watertight maintenance <u>hatch</u> with the opening entirely above the <b>waterline</b> .
Mo0,1,2	3.02.2	Structural Inspection – Consult the owner's manual for any instructions for keel bolt
		checking and re-tightening. The following inspection to be conducted by a qualified person
		externally with the boat out of the water. Check that there are no visible stress cracks
		particularly around the keel, hull/keel attachment, hull appendages and other stress points,
		inside the hull, backing plates, bolting arrangements and keel floors. (See Appendix L –
		Model Keel and Rudder Inspection Procedure).
Mo0,1,2	3.02.3	Evidence of a structural inspection in accordance with 3.02.2 within 24 months before the
		start of the race or after a grounding whichever is the later.
Mo0,1,2,3	3.02.5	Inspection after Grounding – an appropriately qualified person shall conduct an internal
		and external inspection after each unintentional grounding.
	3.03	Hull Construction Standards (Scantlings)
		For a boat with Series Date earlier than 2010 the Organizing Authority (OA)
		may, at its sole discretion, accept the offshore sailing history of the boat or a
		sister ship in lieu of OSR 3.03.
Mo0,1,2	3.03.1	A monohull with a series date after 2009
Mo0,1,2		a) of less than 24 m (78'-9") $\underline{L}_{H}$ shall have:
Mo0,1,2		i been designed, built and maintained in accordance with the requirements of <u>ISO</u>
		12215 Category A, and
Mo0,1,2		ii a World Sailing/ISAF building plan review certificate issued from an organisation
		recognised by World Sailing. Plan review certificates can be found at World
		Sailing.
Mo0,1,2		b) of 24 m (78'-9") L <sub>H</sub> and greater shall have been designed, built and maintained in
		accordance with the requirements of a Classification Society recognised by World
		Sailing <sub></sub>
Mo0,1,2		c) shall have a builder's declaration signed and dated by the builder to confirm the boat
		is built in accordance with the reviewed plans. In cases when a builder no longer
		exists, an organising authority or class rules may accept a signed statement by a
		naval architect or other person familiar with the requirements of above in lieu of the
		builder's declaration, and
Mo0,1,2		d) shall have an additional World Sailing/ <u>ISAF</u> certificate of building plan review in
		accordance with a) or b), and c) above for all significant repairs or modifications to
		the hull, deck, coachroof or <b>appendages</b> .
MoMu0,1,2	3.03.2	A monohull with series date between 1987 and 2010, and all multihulls, shall have
		been designed, built, maintained, modified or repaired in accordance with the requirements
		of:
Mo0,1,2		a) <u>OSR</u> 3.03.1, or
Mo0,1,2		b) the <u>ABS</u> Guide for Building and Classing Offshore Yachts and have on board either an
		ABS certificate of plan approval, or written statements signed by the designer and

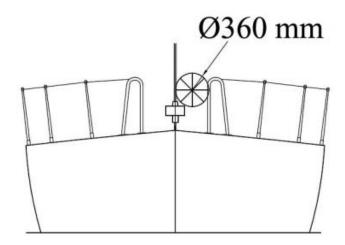
Categories							
		A bo	at shall be/have:				
			builder confirming that they have respectively designed	and	built the	boat	in
			accordance with the <u>ABS</u> Guide, or				
MoMu0,1,2		c) the EC Recreational Craft Directive for Category A having obtained the CE mark			mark, or		
MoMu0,1,2		d)	ISO 12215 Category A, with written statements signed by	by th	e designe	er and	d builder
			confirming that they have respectively designed and bui	ilt th	e boat in	accor	dance wit
			the <u>ISO</u> standard, and				
MoMu0,1,2		e)	have written statements or approvals in accordance with	h a),	or b) or	c) and	d d) above
			for all significant repairs or modifications to the hull, dec	ck, c	oachroof,	keel	or
			appendages, on board, except				
MoMu0,1,2		f)	that an organising authority or class rules may accept, v	when	that des	cribe	d in a), b),
			c), d) or e) above is not available, the signed statement	by a	a naval ar	chite	ct or other
			person familiar with the standards listed above that the	boat	t fulfils th	ese	
			requirements.				
	3.04	Stal	pility – Monohulls				
Mo0,1,2	3.04.1	a)	Able to demonstrate compliance with ISO 12217-2* des	ign d	category A	A or h	nigher,
			either by EC Recreational Craft Directive certification have	ving	obtained	the C	CE mark o
			the designer's declaration				
Mo0,1,2,3			e latest effective version of $\underline{\rm ISO}$ 12217-2 should be used	unle	ess the bo	oat wa	as already
			gned to a previous version.				
Mo0,1,2,3	3.04.2		re compliance in accordance with $\underline{\text{OSR}}$ 3.04.1 cannot be	dem	onstrated	l, a b	oat shall b
			to demonstrate either:				
Mo0,1,2,3			le 2 - STIX, AVS and m*A <sub>GZ</sub> Requirements				
Mo0,1,2,3		a)	Race Category		0,1,2		3
			minimum ISO 12217-2 Stability Index (STIX)		32		23
			minimum ISO 12217-2 Angle of Vanishing Stability (AVS	S) <sub>1</sub>	30-0.002	1*m	130-
				1	130-0.002		0.005*m
						- 1	
			but AVS always >=		100°		95°
			·		100°		95°
			a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the				
			·		100°	)	95° 57000
			a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the			)	
			a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre		172000		57000
			a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)	1"	172000	kg .	57000 <b>1,500 kg</b>
			a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available,	7"	172000	kg .	57000
Mo0,1,2,3		or	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).	7"	172000	kg .	57000 <b>1,500 kg</b>
Mo0,1,2,3		Tab	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).  le 3 – ORC Stability Index or SSS Requirements		172000 3,000 k (6,600	(g . #) (	57000 1,500 kg (3,300#)
		-	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).  le 3 – ORC Stability Index or SSS Requirements  Race Category	0	3,000 k (6,600 a	(g	57000 1,500 kg (3,300#)
Mo0,1,2,3		Tab	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).  le 3 – ORC Stability Index or SSS Requirements		3,000 k (6,600 a	(g . #) (	57000 1,500 kg (3,300#)
Mo0,1,2,3		Tab	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).  Ile 3 – ORC Stability Index or SSS Requirements  Race Category  minimum Stability Index in ORC Rating System, or minimum IRC Safety and Stability Screening numeral	0	172000 3,000 k (6,600#	2 110	57000 1,500 kg (3,300#) 3 0 103
Mo0,1,2,3		Tab	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).  le 3 – ORC Stability Index or SSS Requirements  Race Category  minimum Stability Index in ORC Rating System, or	0	3,000 k (6,600 a	(g	57000 1,500 kg (3,300#) 3 0 103
Mo0,1,2,3		Tab	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).  Ile 3 – ORC Stability Index or SSS Requirements  Race Category  minimum Stability Index in ORC Rating System, or minimum IRC Safety and Stability Screening numeral	0	172000 3,000 k (6,600#	2 110	3 0 103
Mo0,1,2,3	3.06	Tab	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).  Ile 3 – ORC Stability Index or SSS Requirements  Race Category  minimum Stability Index in ORC Rating System, or minimum IRC Safety and Stability Screening numeral (SSS) Base value	0	172000 3,000 k (6,600#	2 110 28	3 0 103
Mo0,1,2,3	3.06 3.06.1	Table b)	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).  Ie 3 – ORC Stability Index or SSS Requirements  Race Category  minimum Stability Index in ORC Rating System, or minimum IRC Safety and Stability Screening numeral (SSS) Base value  SSS may only be used if the series date is before	0 120	172000 3,000 k (6,600 ± 1 0 115 35	2 110 28 199	57000  1,500 kg (3,300#)  3 0 103 15 5 2000
Mo0,1,2,3 Mo0,1,2,3		Table b)  Exit	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).  Ite 3 – ORC Stability Index or SSS Requirements  Race Category  minimum Stability Index in ORC Rating System, or minimum IRC Safety and Stability Screening numeral (SSS) Base value  SSS may only be used if the series date is before  s – Monohulls	0 120	172000 3,000 k (6,600 a 1 0 115 35	2 110 28 199 shall I	57000  1,500 kg (3,300#)  3 103 15 5 2000  have at
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Mo0,1,2,3 Mo0,1,2,3		Exit If the least structure	a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)  If the minimum righting energy is not available, the boat shall have a minimum sailing weight "mof 3,000 kg (6,600#).  Ile 3 – ORC Stability Index or SSS Requirements  Race Category  minimum Stability Index in ORC Rating System, or minimum IRC Safety and Stability Screening numeral (SSS) Base value  SSS may only be used if the series date is before s – Monohulls e series date is after 1994 and LH is 8.5 m (28') and green two exits. One exit shall be located forward of the forence is the series date is determined to the forence in the series date is after 1994 and LH is 8.5 m (28') and green two exits. One exit shall be located forward of the forence in the series date is after 1994 and LH is 8.5 m (28') and green two exits.	0 120 eaternost	172000 3,000 k (6,600 a 1 0 115 35 7, a boat s mast exce	2 110 28 199 shall I	57000  1,500 kg (3,300#)  3 103 15 5 2000  have at

	IKUCIL	JRAL FEATURES, STABILITY, FIXED EQUIPMENT
Categories		A boat shall be/have:
Mo0,1,2,3,4		b) any other shape with minimum dimension of 380 mm (15") and minimum area of 0.18 m² (1.9 ft²) (see figure 1).
Mo0,1,2,3,4		+ + + +
	3.08	Figure 1 — Measurements of Minimum Clear Opening Hatches & Companionways
**		
	3.08.1	<u>Hatch</u> covers forward of the maximum beam station shall not open toward the interior of the boat, except <u>hatches</u> in the side of a coachroof or ports having an area of less than 0.071 m <sup>2</sup> (110 in <sup>2</sup> ).
**	3.08.2	A <u>hatch</u> , including a <u>hatch</u> over a locker shall be:
**		a) permanently attached and capable of being firmly shut immediately and remaining firmly shut in a 180° capsize,
Mo0,1,2,3,4		b) above the water when the boat is heeled 90°.
Mo0,1,2,3,4		A boat may have a maximum of two <u>hatches</u> on each side of centerline that do not
		conform to the requirement in b), provided that the opening of each is less than 0.071 m <sup>2</sup> (110 in <sup>2</sup> ).
**	3.08.3	<u>Hatches</u> not conforming with <u>OSR</u> 3.08.1 and <u>OSR</u> 3.08.2 shall be clearly labelled and used in accordance with the following instruction "NOT TO BE OPENED AT SEA".
**	3.08.4	Companionway <u>hatches</u> :
**		a) fitted with a strong securing arrangement which shall be operable from the exterior and interior even when the boat is inverted,
**		b) blocking devices:
**		i capable of being retained in position with the <u>hatch</u> open or shut,
**		ii secured to the boat (e.g. by lanyard) for the duration of the race, and
**		iii permit exit in the event of inversion.
Mo0,1,2,3,4	3.08.5	If a <b>monohull</b> with cockpit(s) that is/are not <u>contained cockpit(s)</u> a boat shall have:
Mo0,1,2,3,4		a) a companionway sill that does not extend below the local sheerline, or
Mo0,1,2,3,4		b) a companionway in full compliance with <u>ISO</u> 11812 category A.
Mo0,1,2,3,4	3.08.6	If a <b>monohull</b> with <u>contained cockpit(s)</u> where the companionway extends below the local
		sheerline, a boat shall have panels capable of blocking the companionway up to the level of
		the local sheerline whilst giving access to the interior.
	<u>3.09</u>	Cockpits
	3.09.1	General
**		a) cockpits shall self-drain quickly by gravity at all angles of heel and are permanently incorporated as an integral part of the boat,
**		b) a cockpit sole shall be at least 2% <u>Lwl</u> above the <b>waterline</b> (or in IMS boats with <u>first launch</u> before 2003, at least 2% L above the <b>waterline</b> ), and
**		c) a bow, lateral, central, or stern well is a cockpit for the purposes of <u>OSR</u> 3.09.
	3.09.2	Cockpit Volume
**		The maximum combined volume below lowest <u>coamings</u> of all <u>contained cockpits</u> shall be:
MoMu2,3,4		b) <b>series date</b> before April 1992: 9% ( <u>Lw.</u> x maximum beam x freeboard abreast the cockpit),

	INOCIC	JRAL FEATURES, STABILITY, FIXED EQUIPMENT
Categories		A boat shall be/have:
**		c) <b>series date</b> after March 1992 as above for the appropriate category except that "lowest <u>coamings</u> " shall not include any aft of the FA station (the transverse station at which the upper corner of the transom meets the sheerline) and no extension of a cockpit aft of the working deck shall be included in calculation of cockpit volume.
	3.09.3	Cockpit Drains
**		Cockpit drain cross section area of unobstructed openings (after allowance for screens if fitted) shall be at least that of:
**		a) if less than 8.5 m (28') $\underline{\mathbb{L}}$ : 2 x 25 mm (1") diameter or equivalent,
**		b) if 8.5 m (28') $\underline{L}_H$ or greater: 4 x 20 mm (3/4") diameter or equivalent.
	<u>3.10</u>	Sea Cocks or Valves
**		<u>Permanently installed</u> sea cocks or valves on all through-hull openings below the
		waterline except for integral deck scuppers and instrument through-hulls.
dede	3.11	Sheet Winches
**		Sheet winches mounted in such a way that an operator is not required to be substantially below deck.
	3.12	Mast Step
**		The heel of a keel stepped mast <u>securely fastened</u> to the mast step or adjoining structure.
	3.14	Pulpits, Stanchions, Lifelines
**	3.14.1	
**		The perimeter of the deck surrounded by system of <u>lifelines</u> and pulpits as follows:
		a) continuous <u>lifelines</u> fixed only at (or near) the bow and stern. However, a gate on each side of a boat is permitted. Except at its end fittings and at gates, the movement of a <u>lifeline</u> in a fore-and-aft direction shall not be constrained. Temporary sleeving shall not modify tension in the <u>lifeline</u> ,
**		<ul> <li>minimum heights of <u>lifelines</u> and pulpit rails above the working deck and vertical openings:</li> </ul>
**		i upper: 600 mm (24"),
**		ii intermediate: 230 mm (9"),
**		vertical opening: no greater than 380 mm (15") except that on a boat with a <b>series date</b> before 1993 where it shall be no greater than 560 mm (22"),
**		<ul> <li>c) <u>lifelines</u> permanently supported at intervals of not more than 2.2 m (7'-2 1/2") and not passing outboard of supporting stanchions,</li> </ul>
**		<ul> <li>d) pulpit and stanchion bases <u>permanently installed</u> with pulpits and stanchions mechanically retained in their bases,</li> </ul>
**		e) if a boat's first launch date is after 2024, the outside of pulpit and stanchion base tubes no further inboard from the perimeter of the deck than 5% of <b>boat beam</b> or 150 mm (6"), whichever is greater, nor further outboard than the perimeter of the deck. If a boat's first launch date is after 2024, the perimeter of the deck is defined as
		the hull and deck intersection at an angle of not more than 15 degrees to the horizontal in a transverse plane when the yacht is upright,
**		f) stanchions straight and vertical except that:
**		i within the first 50 mm (2") from the deck, stanchions shall not be displaced horizontally from the point at which they emerge from the deck or stanchion base by more than 10 mm (3/8"),
**		ii stanchions may be angled to not more than 10° from vertical at any point above 50 mm (2") from the deck.
**		g) a bow pulpit may be open provided the opening between the pulpit and any part of the boat does not exceed 360 mm (14"),

Categories

A boat shall be/have:



#### Figure 2 - Diagram Showing Pulpit Opening

- h) <u>lifelines</u> may terminate at or pass through adequately braced stanchions set inside and overlapping the bow pulpit,
- i) when a deflecting force of 4 kg (8.8 #) is applied to a <u>lifeline</u> at the mid-point of the longest span between supports that are aft of the mast, the deflection shall not exceed:
  - i 50 mm (2") for an upper or single <u>lifeline</u>,
  - ii 120 mm (4 ¾") for an intermediate <u>lifeline</u>.

#### 3.14.3 Lifeline Specifications

- a) <u>lifelines</u> of stranded stainless steel wire,
- c) The minimum diameter is specified in table 4 below,
- Stainless steel <u>lifelines</u> shall be uncoated and used without close-fitting sleeving, however, temporary sleeving may be fitted provided it is regularly removed for inspection,
- e) A lanyard of synthetic rope may be used to secure <u>lifelines</u> provided the gap it closes does not exceed 100 mm (4"). This lanyard shall be replaced annually,
- f) All components of the <u>lifeline</u> enclosure system shall have a breaking strength no less than the <u>lifeline</u>,

#### **Table 4 – Lifeline Diameter Requirements**

<u>L</u> <sub>H</sub>	Wire Min. <u>lifeline</u>	HMPE rope (Single braid)	HMPE Core (Braid on braid)
	diameter		min. <u>lifeline</u> outside
			diameter
under 8.5 m (28')	3 mm (1/8")	4 mm (5/32")	6 mm (1/4")
8.5m – 13 m	4 mm (5/32")	5 mm (3/16")	7 mm (9/32")
over 13 m (42' 8")	5 mm (3/16")	5 mm (3/16")	7 mm (9/32")

#### 3.17 Toe Rail or Foot-Stop

Mo0,1,2,3	3.17.1	<u>Permanently installed</u> toe rail of minimum height 25 mm (1"), located at or no more than
		100 mm (4") inboard of the perimeter of the deck from at least forward of the mast.
Mo0,1,2,3	3.17.2	On a boat with <b>series date</b> before 1984, an additional <u>lifeline</u> of between 25–50 mm (1–

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3.17.2 On a boat with **series date** before 1984, an additional <u>lifeline</u> of between 25–50 mm (1–2") high is permitted in lieu of a toe rail

#### 3.18 Toilet

MoMu0,1,2 <u>3.18.1</u> <u>Permanently installed</u> toilet.

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Mo0,1,2,3

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	SIKUCIU	JRAL FEATURES, STABILITY, FIXED EQUIPMENT	
Categories		A boat shall be/have:	
	3.19	Bunks	
MoMu1,2,3,4	3.19.1	<u>Permanently installed</u> bunks.	
	3.20	Cooking Facilities	
MoMu0,1,2,3		<u>Permanently installed</u> cooking stove, capable of being operated safely at sea, with fuel	
		shutoff control.	
	3.21	Drinking Water Tanks & Drinking Water	
	<u>3.21.1</u>	<del>-</del>	
MoMu2,3		c) <u>permanently installed</u> delivery pump and water tank(s)), or reusable container(s)	
		capable of providing sufficient amount of drinking water per person per day for the	
		likely duration of the voyage.	
	3.21.3	Emergency Drinking Water	
MoMu1,2,3		a) at least 2 L (0.5 US Gal) per person of drinking water for emergency use in a	
		dedicated and sealed container or container(s).	
slesle	3.22	Hand Holds	
**		Adequate hand holds fitted below deck.	
**	3.23	Bilge Pumps and Buckets	
	3.23.1	a) two strong buckets, each with a lanyard and of at least 9 L (2.4 US Gal) capacity,	
Mo0,1,2		b) two <u>permanently installed</u> manual bilge pumps, one operable from above, the other	
**	2 22 2	from below deck,	
10.40	3.23.2	All required <u>permanently installed</u> bilge pumps shall be operable with all cockpit seats,	
		<u>hatches</u> and companionways shut and with <u>permanently installed</u> discharge pipe(s) of sufficient capacity.	
**	3.23.3	Bilge pumps shall not be connected to cockpit drains and shall not discharge into a	
	3.23.3	contained cockpit.	
**	3.23.4	Bilge pumps shall be readily accessible for maintenance and for clearing out debris.	
**	3.23.5	All removable bilge pump handles retained by a lanyard.	
	3.24	Compass	
MoMu0,1,2,3		Marine magnetic compass capable of being used as a steering compass:	
**		a) <u>Permanently installed</u> marine magnetic steering compass, independent of any power	
		supply, correctly adjusted with deviation card,	
MoMu0,1,2,3		b) a second compass which may be hand-held and/or electronic.	
	3.25	Halyards	
**	3.25.1	A minimum of two halyards, each capable of hoisting a sail, on each mast.	
MoMu0,1,2,3	3.25.2	No halyard shall be locked, lashed, or otherwise secured to the mast in a way that requires	
		a person to go aloft to lower a sail in a controlled manner, except for a headsail in use with	
		a furling device.	
	3.27	Navigation Lights	
**	3.27.1	That conform to the International Regulations for Preventing Collisions at Sea (Part C and	
		Technical Annex I) and shall be exhibited as required by those regulations.	
**	3.27.2	Mounted above sheerline and so that they will not be masked by sails or the heeling of the	
		boat.	
MoMu0,1,2,3	3.27.3	Reserve lights having the same specifications as above, and that can be powered	
		independently.	
**	3.27.4	Spare bulbs (not required for LED).	
	3.28	Engines, Generators, Fuel	
<b>4 4</b>	3.28.1	Propulsion Engines	
**		a) engines and associated systems installed in accordance with their manufacturers'	
MoMuO 1 2 2		guidelines and suitable for the size and intended use of the boat,	
MoMu0,1,2,3		b) an engine which provides a minimum speed in knots of (1.8 x $\sqrt{\underline{L_{WL}}}$ in metres) or	
MoO 1 2MuO		$(\sqrt{\underline{L_{WL}}} \text{ in feet}),$ c) inboard engine,	
Mo0,1,2Mu0		c) inboard engine,	

<u>3ECTION 3 - 3</u>	1110010	JRAL FEATURES, STABILITY, FIXED EQUIPMENT
Categories		A boat shall be/have:
**		f) an inboard combustion engine shall have a <u>permanently installed</u> exhaust, cooling system, fuel supply, fuel tank(s) and shall have adequate heavy weather protection,
**		g) an inboard electrical engine, when fitted, shall be provided with a <u>permanently</u> <u>installed</u> power supply, adequate heavy weather protection and have an engine control system.
	3.28.2	Generator
**		If an optional generator separate from the propulsion engine is carried, it shall be installed in accordance with the manufacturer's guidelines.
	3.28.3	Liquid Fuel Systems
MoMu0,1,2,3		a) all fuel tanks for storage of liquid fuels shall be rigid (but may have <u>permanently</u> <u>installed</u> flexible linings) and shall have a shutoff valve,
MoMu0,1,2,3		<ul> <li>at the start a boat with a combustion engine shall carry sufficient fuel to meet charging requirements for the duration of the race and to motor at the above minimum speed for at least 5 hours.</li> </ul>
	3.28.4	Battery Systems
**		a) batteries installed after 2011 shall be of the sealed type from which liquid electrolyte cannot escape,
**		b) At the start a boat with an electric engine shall carry sufficient capacity to meet electrical requirements for the duration of the race and to motor at the above minimum speed for at least 5 hours.
MoMu0,1,2,3		<ul> <li>a dedicated engine/generator starting battery when an electric starter is the only method for starting the engine and/or separate generator,</li> </ul>
	2 22	
	3.29	Communications Equipment, GPS, Radar, AIS
Mo1,2,3	3.29 3.29.1	Communications Equipment, GPS, Radar, AIS  A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof
Mo1,2,3 Mu1,2,3,4		
		A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof cover. When not in use to be stowed in the grab bag or emergency container (see OSR
Mu1,2,3,4	3.29.1	A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof cover. When not in use to be stowed in the grab bag or emergency container (see OSR 4.21).  A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of
Mu1,2,3,4 **	3.29.1	A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof cover. When not in use to be stowed in the grab bag or emergency container (see OSR 4.21).  A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of receiving weather bulletins.  A marine radio transceiver with an emergency antenna when the regular antenna depends
Mu1,2,3,4  **  MoMu0,1,2,3  MoMu0,1,2,3  MoMu0,1,2,3	3.29.1 3.29.4 3.29.5	A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof cover. When not in use to be stowed in the grab bag or emergency container (see OSR 4.21).  A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of receiving weather bulletins.  A marine radio transceiver with an emergency antenna when the regular antenna depends upon the mast.  If the marine radio transceiver is a VHF:  a) a minimum rated output power of 25 W,
Mu1,2,3,4  **  MoMu0,1,2,3  MoMu0,1,2,3	3.29.1 3.29.4 3.29.5	A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof cover. When not in use to be stowed in the grab bag or emergency container (see OSR 4.21).  A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of receiving weather bulletins.  A marine radio transceiver with an emergency antenna when the regular antenna depends upon the mast.  If the marine radio transceiver is a VHF:
Mu1,2,3,4  **  MoMu0,1,2,3  MoMu0,1,2,3  MoMu0,1,2,3	3.29.1 3.29.4 3.29.5	A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof cover. When not in use to be stowed in the grab bag or emergency container (see OSR 4.21).  A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of receiving weather bulletins.  A marine radio transceiver with an emergency antenna when the regular antenna depends upon the mast.  If the marine radio transceiver is a VHF:  a) a minimum rated output power of 25 W,
Mu1,2,3,4  **  MoMu0,1,2,3  MoMu0,1,2,3  MoMu0,1,2,3  MoMu1,2,3	3.29.1 3.29.4 3.29.5	A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof cover. When not in use to be stowed in the grab bag or emergency container (see OSR 4.21).  A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of receiving weather bulletins.  A marine radio transceiver with an emergency antenna when the regular antenna depends upon the mast.  If the marine radio transceiver is a VHF:  a) a minimum rated output power of 25 W,  b) if installed after 2015 be DSC capable,  d) a masthead antenna not less than 38 cm (15") in length and co-axial feeder cable
Mu1,2,3,4  **  MoMu0,1,2,3  MoMu0,1,2,3  MoMu0,1,2,3  MoMu1,2,3  MoMu1,2,3	3.29.1 3.29.4 3.29.5	A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof cover. When not in use to be stowed in the grab bag or emergency container (see OSR 4.21).  A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of receiving weather bulletins.  A marine radio transceiver with an emergency antenna when the regular antenna depends upon the mast.  If the marine radio transceiver is a VHF:  a) a minimum rated output power of 25 W,  b) if installed after 2015 be DSC capable,  d) a masthead antenna not less than 38 cm (15") in length and co-axial feeder cable with not more than 40% power loss,  f) DSC capable VHF transceivers shall be programmed with an assigned MMSI (unique to the boat), be connected to a GPS receiver and be capable of making distress alert calls as well as sending and receiving a DSC position report with another DSC
Mu1,2,3,4  **  MoMu0,1,2,3  MoMu0,1,2,3  MoMu0,1,2,3  MoMu1,2,3  MoMu1,2,3  MoMu1,2,3	3.29.4 3.29.5 3.29.6	A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof cover. When not in use to be stowed in the grab bag or emergency container (see OSR 4.21).  A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of receiving weather bulletins.  A marine radio transceiver with an emergency antenna when the regular antenna depends upon the mast.  If the marine radio transceiver is a VHF:  a) a minimum rated output power of 25 W,  b) if installed after 2015 be DSC capable,  d) a masthead antenna not less than 38 cm (15") in length and co-axial feeder cable with not more than 40% power loss,  f) DSC capable VHF transceivers shall be programmed with an assigned MMSI (unique to the boat), be connected to a GPS receiver and be capable of making distress alert calls as well as sending and receiving a DSC position report with another DSC equipped station,
Mu1,2,3,4  **  MoMu0,1,2,3  MoMu0,1,2,3  MoMu1,2,3  MoMu1,2,3  MoMu1,2,3  MoMu1,2,3  MoMu1,2,3	3.29.4 3.29.5 3.29.6	A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof cover. When not in use to be stowed in the grab bag or emergency container (see OSR 4.21).  A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of receiving weather bulletins.  A marine radio transceiver with an emergency antenna when the regular antenna depends upon the mast.  If the marine radio transceiver is a VHF:  a) a minimum rated output power of 25 W,  b) if installed after 2015 be DSC capable,  d) a masthead antenna not less than 38 cm (15") in length and co-axial feeder cable with not more than 40% power loss,  f) DSC capable VHF transceivers shall be programmed with an assigned MMSI (unique to the boat), be connected to a GPS receiver and be capable of making distress alert calls as well as sending and receiving a DSC position report with another DSC equipped station,  An AIS Transponder which either:

## **SECTION 4 – PORTABLE EQUIPMENT**

P(	A heat shall have:
4.04	A boat shall have:
	Sail Letters & Numbers
4.01.1	Identification on sails which complies with <u>RRS</u> 77 and <u>RRS</u> Appendix G.
	A boat should comply with the requirements of Appendix G governing class
	insignia, national letters and numbers on sails. This changes RRS 77, OSR 4.01
	and the US Sailing prescription to RRS Appendix G.
4.01.2	An alternative means of displaying identification as required under <u>RRS</u> Appendix G for a
	mainsail, to be displayed when none of the numbered sails are set.
<u>4.03</u>	Soft Wood Plugs
	A tapered soft wood plug stowed adjacent to every through-hull opening.
	Jackstays and Clipping Points
4.04.1	<u>Permanently Installed</u> fittings for <u>jackstay</u> ends and clipping points.
4.04.2	<u>Jackstays</u> which shall:
	a) be independent on each side of the deck,
	b) enable a <u>crewmember</u> to move readily between the working areas on deck and the cockpit(s) with the minimum of clipping and unclipping operations,
	c) have a breaking strength of 2040 kg (4500#) and be uncoated and non-sleeved stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16"), webbing or <a href="https://example.com/HMPE">HMPE</a>
4 04 3	rope. Clipping points which shall:
<u>T.UT.5</u>	
	,
	crewmembers work,
	b) enable a <u>crewmember</u> to clip on before coming on deck and unclip after going below,
	<ul> <li>enable two-thirds of the crew to be simultaneously clipped on without depending on jackstays,</li> </ul>
	Fire Fighting Equipment
4.05.1	A fire blanket adjacent to every cooking device.
4.05.2	2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.
4.06	Anchors
4.06.1	2 un-modified anchors that meet the anchor manufacturer's recommendation based on the boat's dimensions with suitable combination of chain and rope, ready for immediate assembly, and ready for deployment within 5 minutes except that for a boat less than 8.5 m (28') Lu there shall be 1 anchor meeting the same criteria.
4.07	Flashlights and Searchlights
	Watertight lights (minimum IP67 rated) with spare batteries and bulbs as follows, or a
	watertight (minimum IP67 rated) rechargeable LED torch, of at least 400 Lumens.
	<ul> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> </ul>
	b) stowed in each grab bag (see <u>OSR 4.21)</u> , a flashlight in addition to <u>OSR</u> 4.07 a).
	c) the flashlight in <u>OSR</u> 4.07 b) shall be stowed in the grab bag (see <u>OSR 4.21</u> ).
4.08	First Aid Manual and First Aid Kit
	A First Aid Manual and First Aid Kit. The contents and storage of the First Aid Kit shall
	reflect the likely conditions and duration of the passage, and the number of <u>crewmembers</u> .
4.09	
4.09	reflect the likely conditions and duration of the passage, and the number of <u>crewmembers</u> .
<u>4.09</u> 4.10	reflect the likely conditions and duration of the passage, and the number of <u>crewmembers</u> . <b>Foghorn</b>
	4.01.2 4.03.3 4.04.1 4.04.1 4.04.2 4.05.1 4.05.2 4.06.1

SECTION 4 - F	OKTABI	
Categories		A boat shall have:
**		a) octahedral circular plates of minimum diameter 30 cm (12"),
**		b) octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or
**		c) a non-octahedral reflector with a documented root mean square minimum Radar
		Cross Section (RCS) area of 2 m <sup>2</sup> (22 ft <sup>2</sup> ) from $0-360^{\circ}$ of azimuth and $\pm 20^{\circ}$ of heel.
	4.11	Navigation Equipment
MoMu0,1,2,3	4.11.1	Navigational charts (not solely electronic), light list and chart plotting equipment.
		National Oceanic and Atmospheric Administration (NOAA) or Canadian
		Hydrographic Services (CHS) charts (not solely electronic) as follows:
		a) NOAA 1 or CHS 1 - Symbols, Terms and Abbreviations,
		b) CHS 4003 - Cape Breton to Cape Cod, or equivalent,
		c) Either:
		i NOAA 13274 (Pocket Fold) Portsmouth Harbor to Boston Harbor, or
		ii NOAA 13275 - Salem and Lynn Harbors, and NOAA 13279 – Ipswich Bay
		to Clausester Harber
		Gloucester Harbor,
		d) CHS 4012 – Yarmouth to Halifax,
		e) CHS 4237 – Approaches to Halifax Harbour, and
		f) CHS 4203 – Halifax Harbour – Black Point to Point Pleasant.
dede	4.12	Safety Equipment Location Chart
**		A safety equipment location diagram in durable waterproof material, clearly displayed in
		the main accommodation, marked with the location of principal items of safety equipment.
	4.13	Depth, Speed and Distance Instruments
MoMu0,1,2,3	4.13.1	A knotmeter or distance measuring instrument (log).
MoMu1,2,3,4	4.13.2	A depth sounder.
	4.14	Spare Number
	4.15	Emergency Steering
MoMu0,1,2,3	4.15.1	An emergency tiller capable of being fitted to the rudder stock except when:
MoMu0,1,2,3		a) the principal method of steering is by means of an unbreakable metal tiller,
MoMu0,1,2,3		b) there are two methods (e.g. tillers, wheels) of controlling a rudder, neither of which
		shares components with the other except for the rudder stock.
MoMu0,1,2,3	4.15.2	A proven method of emergency steering with the rudder disabled.
	4.16	Tools and Spare Parts
**	4.16.1	Tools and spare parts, suitable for the duration and nature of the passage.
**	4.16.2	An effective means to quickly disconnect or sever the standing rigging from the boat.
	4.17	Boat's Name
**		The boat's name on miscellaneous buoyant equipment, such as lifejackets, cushions,
		lifebuoys, recovery slings, grab bags, etc.
	4.18	Retro-Reflective Material
**		Marine grade retro-reflective material on lifebuoys, recovery slings, liferafts and lifejackets.
	4.19	<b>EPIRBs</b>
MoMu1,2	4.19.2	A water and manually activated 406 MHz <u>EPIRB</u> .
MoMu0,1,2	4.19.3	A 406 MHz <u>EPIRB</u> registered after 2015 shall include an internal <u>GPS</u> .
MoMu0,1,2	4.19.4	All <u>EPIRBs</u> registered with the appropriate authority associated with the country code in the
1 101 100/1/2	112511	hexadecimal identification (15 Hex ID) of the beacon. A beacon can be registered online
		with the Cospas-Sarsat <u>IBRD</u> if the country does not provide a registration facility and the
		country has allowed direct registration in the <u>IBRD</u> .
	4.20	Liferafts
	4.20.1	Liferaft Construction
MoMul 2	7.20.1	
MoMu1,2		a) one or more inflatable liferafts with a total capacity to accommodate at least the total
MaMed 2		number of people on board which complies with:
MoMu1,2		i <u>LSA</u> Code 1997 Chapter IV or later version,

<u>SECTION 4 – P</u>		
Categories	A bo	at shall have:
MoMu1,2		ii <u>ISO</u> 9650-1:2005, Type 1, Group A – Small Craft – Inflatable,
MoMu1,2		iii <u>ISAF</u> liferafts manufactured before 2016 until replacement is due at end of
		service life, or
MoMu1,2		iv ORC liferafts manufactured before 2003 until replacement is due at end of service
,		life.
	4.20.2 Mini	imum Liferaft Equipment
MoMu0,1,2	Life	rafts shall be equipped with an insulated floor.
MoMu0,1,2		<u>PLAS</u> liferaft shall contain as a minimum a <u>SOLAS</u> A pack,
MoMu2	c)	an ISO 9650 liferaft shall contain as a minimum Pack 2 (less than 24 hours pack),
MoMu1,2	d)	the minimum contents of the <u>ISO</u> liferaft equipment packs are listed below. Some
,	,	items, as indicated below, may be carried within accompanying waterproof grab
		bag(s) which shall be in a readily accessible location:
MoMu1,2		i portable buoyant bailer easily operable by hand,
MoMu1,2		ii 2 sponges,
MoMu1,2		iii pair of buoyant paddles with handles (not mitts) tied into raft adjacent to an
		entrance,
MoMu1,2		iv whistle,
MoMu2		v waterproof torch with 6 h duration, and
MoMu2		vi spare waterproof torch or spare battery and bulb,
MoMu1,2		vii signalling mirror,
MoMu1,2		viii 6 anti-seasickness pills per person, *
MoMu1,2		ix seasickness bag per person, each with a simple, effective, closure system, *
MoMu2		x 3 red hand flares in accordance with <u>LSA</u> Code Chapter III, 3.2,
MoMu1,2		xi 2 red parachute flares in accordance with LSA Code Chapter III, $3.1 - 1$ may be
		stowed in the grab bag,
MoMu1,2		xii kit to repair leaks in most inflatable compartments, operable in wet conditions
		and during violent motion,
MoMu1,2		xiii hand operable air pump, capable of and ready for immediate use to inflate most
		compartments – Loose parts captive to the pump,
MoMu1,2		ay be packed in grab bag instead of liferaft.
	4.20.3 Life	raft Packing and Stowage
MoMu0,1,2	a)	Each liferaft shall be packed either in:
MoMu0,1,2		i a rigid container securely stowed on the working deck, in the cockpit or in an
		open space, or
MoMu0,1,2		ii a rigid container or valise securely stowed in a dedicated weather tight locker
		containing liferaft and abandon ship equipment only which is readily accessible
		and opens onto the cockpit or working deck, or transom.
MoMu0,1,2	b)	On a <b>monohull</b> with <u>moveable ballast</u> or a <b>multihull</b> , the liferaft shall be readily
M-M 0 1 2	,	deployable whether or not the boat is inverted.
MoMu0,1,2	c)	The end of each liferaft painter should be <u>securely fastened</u> to the boat.
MoMu0,1,2	d)	Each raft shall be capable of being moved to the <u>lifelines</u> or launched within 15
	,	seconds.
MoMu1,2	e)	In a boat with <b>series date</b> before June 2001, a liferaft may be packed in a valise not
	4 20 4 1 16-	exceeding 40 kg securely stowed below deck adjacent to a companionway.
MaNuO 1 2		raft Servicing
MoMu0,1,2	a)	A liferaft shall be serviced at a manufacturer authorized service station at the
MaN. 0 1 2		following maximum intervals:
MoMu0,1,2		i SOLAS liferafts annually,
MoMu0,1,2		ii <u>ISO</u> 9650 canister packed liferafts every 3 years,
MoMu0,1,2		iii <u>ISO</u> 9650 valise packed liferafts every 3 years except that hired liferafts shall be
		serviced annually,

SECTION 4 – P	TABLE EQUIPMENT	
Categories	A boat shall have:	
MoMu0,1,2	iv <u>ISAF</u> liferafts annually,	
MoMu0,1,2	v <u>ORC</u> liferafts annually.	
MoMu0,1,2	b) Servicing certificates (original or a copy) on board.	
,	21 Grab Bags	
Mo0,1,2,3	$\frac{21.1}{21.1}$ A grab bag shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of highly visible	e colour
Mu**	(e.g. dayglo yellow or orange) on the outside, shall be marked with the name of the	
	and shall have a lanyard and clip. If a grab bag has to accompany a specific life raf	-
	be clearly marked with the identity of its corresponding raft.	c, ic silali
MoMu <mark>1,2</mark>	21.2 A grab bag for each liferaft, readily accessible whether or not the boat is inverted.	
1101111112	22 Crew Overboard Identification and Recovery	
	22.1 Locator Beacons	
MaMuO 1 2		
MoMu0,1,2	a) an <u>AIS</u> personal crew overboard beacon for each <u>crewmember</u> ,	طائن امما
MoMu0,1,2	Where possible every <u>PLB</u> shall be registered with the appropriate authority associa	
	the country code in the hexadecimal identification (15 Hex ID) of the beacon. A beat	acon can
	be registered online with the Cospas-Sarsat <u>IBRD</u> if the country does not provide a	
	registration facility and the country has allowed direct registration in the <u>IBRD</u> .	
	22.2 GPS Crew Overboard Position	
MoMu1,2,3	a) For boats with only two <u>crewmembers</u> , a GPS capable of recording a crew over	
	position, within 10 seconds, and monitoring that position without having to go	below
	deck.	
MoMu1,2	b) a <u>GPS</u> capable of recording a crew overboard position within 10 seconds and	
	monitoring that position.	
	22.3 Lifebuoys	
MoMu0,1,2	b) a lifebuoy with a self-igniting light, a whistle, and a drogue,	
MoMu0,1,2	c) in addition to <u>OSR</u> 4.22.3 b) above, within reach of the helmsman and ready f	or
	immediate use, a second lifebuoy equipped with:	
MoMu0,1,2	i a whistle, a drogue, a self-igniting light, and	
MoMu0,1,2	ii a pole and flag. The pole shall be either permanently extended or be capa	able of
	being fully automatically extended,	
MoMu0,1,2	d) at least one lifebuoy shall depend entirely on permanent buoyancy (e.g. foam)	•
**	e) each inflatable lifebuoy and any automatic device shall be tested and serviced	at
	intervals in accordance with its manufacturer's instructions.	
	22.4 Heaving Line	
**	A heaving line, no less than 6 mm (1/4") diameter, 15–25 m (50–75') long, readily	
	accessible to cockpit.	
	22.5 Recovery Sling	
MoMu0,1,2,3	A recovery sling which includes a:	
MoMu0,1,2,3	a) buoyant line of length no less than the shorter of 4 times $\underline{L}_{H}$ or 36m (120'),	
MoMu0,1,2,3	b) buoyancy section (horseshoe) with no less than 90 N (20#) buoyancy,	
MoMu0,1,2,3	c) minimum strength capable to hoist a <u>crewmember</u> aboard.	
	23 Pyrotechnic and Light Signals	
**	Pyrotechnic signals shall be provided conforming to <u>LSA</u> Code Chapter III Visual Signals	ınals
	and not older than the stamped expiry date (if any) or if no expiry date stamped, n	ot older
	than 4 years:	
**	a) 2 orange smoke <u>LSA</u> III 3.3,	
MoMu0,1,2,3	b) 4 red hand flares <u>LSA</u> III 3.2.	
	24 Spare Number	
	25 Cockpit Knife	
**	A strong, sharp knife, in a securely restrained sheath shall be readily accessible from	m the
	deck or a cockpit.	
	-	

Categories		A boat shall have:
	4.26	Storm & Heavy Weather Sail Inventory
**		the following storm & heavy weather sails as specified in OSR 4.27:
MoMu1,2	4.26.1	either a storm trysail or mainsail reefing to reduce the luff by at least 50% (or rotating
		wing mast if suitable),
MoMu0,1,2,3	4.26.2	heavy weather jib,
MoMu0,1,2	4.26.3	storm jib.
	4 27	Storm 9. Hopey Worthor Soil Specifications

#### 4.27 Storm & Heavy Weather Sail Specifications

Where required by OSR 4.26, the specifications of heavy weather sails shall follow:

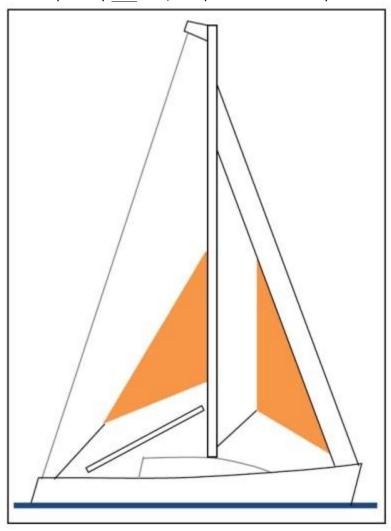


Figure 3 - Storm Sails

#### 4.27.1 Design

- a) the material of the body of a storm sail purchased after 2013 shall have a highly visible colour (e.g. dayglo pink, orange or yellow),
- b) aromatic polyamides, carbon and similar fibres shall not be used in a trysail or storm jib, but <u>HMPE</u> and similar materials are permitted,
- c) sheeting positions on deck for each storm and heavy-weather sail,
- d) sheeting positions for the trysail independent of the boom, and
- e) the maximum area of storm and heavy weather sails shall be lesser of the areas below or as specified by the boat designer or sailmaker.
- f) the primary purpose of any storm sail or heavy weather sail shall be to provide propulsion and steerage in storm & heavy weather conditions, and they shall be designed, manufactured and maintained as such. Storm sails shall be designed to

### SECTION 4 – PORTABLE EQUIPMENT

3ECTION 4 - F	OKTADI	LE EQUIPMENT
Categories		A boat shall have:
		provide propulsion and steerage in Beaufort scale 8 and on all points of sail. Heavy weather sails shall be designed to provide propulsion and steerage in Beaufort scale 6
		and on all points of sail.
	4.27.2	A Storm Trysail with:
MoMu0,1,2,3		a) area not greater than 17.5% mainsail hoist (P) x mainsail foot length (E),
MoMu0,1,2,3		b) for sails made after 2011: The storm trysail area calculated as (0.5 x leech length x shortest distance between tack point and leech),
MoMu0,1,2,3		c) no headboard,
MoMu0,1,2,3		d) no battens,
MoMu0,1,2,3		e) sail number and letters on both sides, as large as practicable, and
MoMu1,2,3		f) in the case of a boat with an in-mast furling mainsail, the storm trysail shall be
		capable of being set while the mainsail is furled.
	4.27.3	A Heavy Weather Jib (or Heavy Weather Sail in a Boat with no Forestay) with:
**		a) area, in unreefed condition, of 13.5% height of the <b>foretriangle</b> squared, and
**		b) readily available method, independent of a luff groove, to attach to the stay.
**		For sails made after 2011: Storm and heavy weather jib areas calculated as: (0.255 x luff
		length x (luff perpendicular $+ 2 x$ half width)).
	4.27.4	A Storm Jib with:
MoMu0,1,2		a) area of 5% (height of the <b>foretriangle</b> ) squared,
MoMu0,1,2		b) maximum luff length 65% of height of the <b>foretriangle</b> , and
MoMu0,1,2		c) permanently attached method, independent of a luff groove, to attach to the stay.
MoMu0,1,2		For sails made after 2011: Storm and heavy weather jib areas calculated as: (0.255 x luff
		length x (luff perpendicular + 2 x half width)).
	<u>4.30</u>	Emergency Pumps,
Mo0,1,2		either fixed or portable pump to remove ingress water from any compartment. This pump shall:
Mo0,1,2		a) have a minimum rated capacity of 200 l/min (3200 US gph),
Mo0,1,2		b) be operated by battery, main engine powered or a separate engine,
Mo0,1,2		c) if portable electric-powered, power cables to be terminated with alligator clips, and
Mo0,1,2		d) have sufficient hose to discharge directly overboard or into the cockpit.
Mo0,1,2		A combination of <u>permanently installed</u> and portable pumps may be combined to meet the above requirement.

## SECTION 5 – PERSONAL EQUIPMENT

		MOONAL LOCAL PILIT
Categories		Each <u>crewmember</u> shall have:
	<u>5.01</u>	Lifejacket
**	<u>5.01.1</u>	A lifejacket which shall:
**		a) i if manufactured before 2012 comply with <u>ISO</u> 12402-3 (Level 150) or equivalent,
		including <u>EN</u> 396 or UL 1180 and:
**		<ul> <li>if inflatable have a gas inflation system</li> </ul>
**		<ul> <li>have crotch/thigh straps (ride up prevention system)</li> </ul>
MoMu0,1,2		<ul> <li>have an integral safety harness in compliance with <u>OSR</u> 5.02</li> </ul>
MoMu0,1,2		Either:
**		ii if manufactured after 2011 comply with <u>ISO</u> 12402-3 (Level 150) and be fitted
		with a whistle, lifting loop, reflective material automatic/manual gas inflation
		system:
**		<ul> <li>crotch/thigh straps (ride up prevention system)</li> </ul>
MoMu0,1,2		<ul> <li>an integral safety harness in compliance with <u>OSR</u> 5.02</li> </ul>
**		or
**		iii if manufactured after 2011 comply with UL 1180 and be fitted with a
		whistle, reflective material and:
**		<ul><li>crotch/thigh straps (ride up prevention system)</li></ul>
**		<ul> <li>an integral safety harness in compliance with OSR 5.02</li> </ul>
**		MHOR note - ISO 12402 is not currently approved by Transport Canada.
MoMu0,1,2,3		b) have an emergency position indicating light in accordance with either <u>ISO</u> 12402-8 or
		<u>LSA</u> code 2.2.3,
**		c) be clearly marked with the boat's or wearer's name,
MoMu0,1,2,3		d) have a sprayhood in accordance with <u>ISO</u> 12402-8,
**		f) if inflatable, be regularly checked for air retention.
MoMu0,1,2,3	5.01.2	A boat shall carry at least one gas inflatable lifejacket spare cylinder and, if appropriate,
		spare activation head for each type of lifejacket on board.
MoMu0,1,2	5.01.3	A boat shall carry at least one spare lifejacket as required in OSR 5.01.1, (a spare PLB
		described in OSR 5.01.1 e) is not required) MHOR Note – the text above was deleted
		since it doesn't apply to this race category.
**	5.01.4	The person in charge shall personally check each lifejacket at least once annually.
	5.02	Safety Harness and Tethers
MoMu0,1,2,3	<u>5.02.1</u>	A harness that complies with <u>ISO</u> 12401 or equivalent.
MoMu0,1,2,3	5.02.2	A <u>tether</u> that shall:
MoMu0,1,2,3		a) comply with <u>ISO</u> 12401 or equivalent,
MoMu0,1,2,3		b) not exceed 2 m (6'-6") including the length of the hooks,
MoMu0,1,2,3		c) have self-closing hooks,
MoMu0,1,2,3		d) have overload indicator flag embedded in the stitching, and
MoMu0,1,2,3		e) be manufactured after 2000.
MoMu0,1,2,3	5.02.3	either:
MoMu0,1,2,3		a) a <u>tether</u> not exceeding 1 m (3'-3") including the length of the hooks, or
MoMu0,1,2,3		b) an intermediate self-closing hook on a 2 m (6'-6") <u>tether</u> .
MoMu0,1,2,3	5.02.5	A <u>tether</u> which has been overloaded shall be replaced.
MOMU0,1,2,3	5.02.5	A <u>tetner</u> which has been overloaded shall be replaced.

## **SECTION 6 – TRAINING**

6.01	Training
6.01.2	At least 30% but not fewer than two <u>crewmembers</u> , including the <i>person in charge</i> shall
	have undertaken training within the five years before the start of the race in <u>OSR</u> 6.02
	Training Topics.
6.01.4	Except as otherwise provided in the Notice of Race, an in-date certificate gained at a World
	Sailing approved Offshore Personal Survival Training course shall be accepted by an event
	Organising Authority as evidence of compliance with <u>OSR</u> 6.01. See Appendix G – Model
	Training Course, for further details.
6.01.5	A refresher course may be taken to renew a certificate if the refresher course is completed
	within 2 years of the expiration of the individual's most recent Offshore Personal Survival
	Course certificate.
6.02	Training Topics
6.02.1	Giving Assistance to Other Craft
6.02.2	Personal Safety Gear, theory and practice
6.02.3	Care and Maintenance of Safety Gear
6.02.4	Fire Precautions and Firefighting, theory and practical
6.02.5	Crew Overboard Prevention and Recovery
6.02.6	Hypothermia, Cold Shock and Drowning
6.02.7	Crew Health
6.02.8	Marine Weather
6.02.9	Heavy Weather
6.02.10	Storm Sails
6.02.11	Damage Control
6.02.12	Search and Rescue Organisation
6.02.13	Pyrotechnics and Signalling Gear, theory and practical
6.02.14	Emergency Communications, theory and practical
6.02.15	Liferafts and Abandon Ship, theory and practical
6.03	Spare Number
<u>6.04</u>	Routine Training On-Board
	At least annually the crews shall practice the drills for:
	a) crew-overboard recovery, and
	b) abandonment of vessel.
6.05	Medical Training
6.05.2	At least one <u>crewmember</u> shall be familiar with first aid procedures, hypothermia,
	drowning, cardio-pulmonary resuscitation and relevant communications systems, and in
	addition, one other <u>crewmember</u> shall have a valid first aid certificate completed within the
	last five years meeting:
	a) A certificate listed on the <u>WS</u> website <u>https://www.sailing.org/inside-world-</u>
	sailing/activities-services/technical-offshore/technical-services/technical-and-offshore-
	safety/offshore-safety/osr-recognised-first-aid-qualifications/ of MNA recognised
	courses, or
	b) <u>STCW</u> First Aid Training complying with A-VI/1-3 - Elementary First Aid or higher
	STCW level.
	6.01.2 6.01.4 6.01.5 6.02 6.02.1 6.02.2 6.02.3 6.02.4 6.02.5 6.02.6 6.02.7 6.02.8 6.02.9 6.02.10 6.02.11 6.02.12 6.02.13 6.02.14 6.02.15 6.03 6.04

#### LIST OF APPENDICES

The appendices, other than appendix F, listed below are included in the "Complete" version of the current World Sailing OSR available at <a href="https://www.sailing.org/inside-world-sailing/rules-regulations/offshore-special-regulations/">https://www.sailing.org/inside-world-sailing/rules-regulations/offshore-special-regulations/</a>

Appendix F begins on the next page.

#### **APPENDICES TO THE OFFSHORE SPECIAL REGULATIONS**

**APPENDIX A – Moveable and Variable Ballast** 

**APPENDIX B – For Inshore Racing** 

**APPENDIX C – For Inshore Dinghy Racing** 

**APPENDIX D – A Guide to ISO and other Standards** 

**APPENDIX E – World Sailing Code for the Organisation of Oceanic Races** 

**APPENDIX F – Standard Inspection Card** 

**APPENDIX G – Model Training Course** 

**APPENDIX H – Model First Aid Training Course** 

**APPENDIX J – Hypothermia** 

**APPENDIX K – Drogues and Sea Anchors** 

**APPENDIX L – Model Keel and Rudder Inspection Procedure** 

**APPENDIX M – Optional Wording for Organising Authorities' NoRs or SIs** 



### **World Sailing Appendix F**

#### **Inspection Card**

# For Category 2 Monohulls JANUARY 2024 – DECEMBER 2025

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**Version 1.14 – 25 November 2024** 



#### **Instructions**

- **PERSON IN CHARGE** (see Racing Rules of Sailing 46): please fill in this form, prepare the boat, initial above each underline and sign where indicated.
- **INSPECTORS** mark each inspected item with a checkmark or cross. Note any deficiencies on the *Deficiency Report*. Show the *Deficiency Report* to the *Person in Charge*, then return the report to the *Race Committee* as soon as possible.

Boat				
Sail Num	ber_			
No of pe	rsons	on board		
		<b>Liability</b> The inspection is carried out as a courtesy. An inspector cannot limit or rensibility of the owner and the person in charge.	educe the cor	mplete and
-		re that I am the <i>Person in Charge</i> , that wherever I initial an item on this checklist it nore Special Regulations (OSR), that I have read and understand the OSRs and in $\mu$		
Signed_		Date		
Printed N	lame			
Note: PUF	RPLE t	ext indicates additional requirements to category 3		
<b>Preceder</b> precedence		The checklist below is in point form. In all cases the full text in the Offshore Special	Regulations	takes
			Inspector onl	у⅂
		Person in Charge initial	s here↓	
	Lay	out on Chart Table or Other Surface		
3.02.2	Kee	el and rudder inspection certificate		
<u>4.11.1</u>	Cha	arts (not solely electronic), plotting equipment		
	a)	NOAA or CHS 1 – Symbols, Terms and Abbreviations		
	b)	CHS 4003 - Cape Breton to Cape Cod, or equivalent		
	c)	Either:		
		i NOAA 13274 (Pocket Fold) Portsmouth Harbor to Boston Harbor, or		
		NOAA 13275 - Salem and Lynn Harbors, and NOAA 13279 - Ipswich ii Bay to Gloucester Harbor		
	d)	CHS 4012 – Yarmouth to Halifax		

	e) CHS 4237 – Approaches to Halifax Harbour	
	f) CHS 4203 – Halifax Harbour – Black Point to Point Pleasant	
4.19.4	Proof of EPIRB registration with rescue authority	
<u>4.20.4</u>	Servicing certificate for each liferaft	
<u>6.01.2</u>	WS approved survival training certificate for 30% of the crew (minimum 2)	
<u>6.04</u>	Proof that crew-overboard recovery has been practiced within past year	
6.04	Proof that abandonment of vessel has been practiced within past year	
6.05.2	Elementary 1st Aid, or equivalent, certificate for 1 crew + familiarity for 2nd	
	Lay out on Bunk(s)	
3.29.4	2nd radio capable of receiving weather, could be the handheld VHF	
3.29.5	Emergency antenna for each type of installed radio transceiver	
<u>4.08</u>	First Aid Manual and First Aid Kit	
4.09	Foghorn	
4.16.1	Tools, spare parts, method to disconnect/sever standing rigging	
4.22.1	AIS personal crew overboard beacon for each crewmember	
4.22.1	Every (optional) PLB on board registered with rescue authority	
4.23	Flares, 4 red hand-held and 2 orange smoke, LSA III	
<u>5.01</u>	Lifejacket c/w lights, whistle etc., 1 for each crew, marked with name	
<u>5.01.1</u>	Each lifejacket has crotch or thigh straps & harness	
5.01.1	Each lifejacket has a sprayhood	
<u>5.01.2</u>	Spare cylinder and activation head for each type on board	
<u>5.01.3</u>	Spare lifejacket	
<u>5.01.4</u>	Each lifejacket inspected by the person in charge within past 12 months	
<u>5.02.1</u>	Safety harness for each crewmember	
<u>5.02.2</u>	2 m (6'-6") tether, with coloured overload flag, for each crewmember	
<u>5.02.3</u>	Mid-tether hook on 2 m tether, or 1 m (3'-3") tether for each crewmember	
	Grab Bag	
3.29.1	Watertight handheld VHF radio transceiver stowed in each grab bag	
4.07	2nd watertight (IP67) flashlight with spare batteries and bulbs	

4.21.1	Grab bag for each raft, with inherent flotation and 0.1 m² (1 ft²) bright colour	
	Below Deck Inspection	
<u>3.06</u>	2 exits, at least 1 forward of the foremost mast	
3.08.3	Portlights that open inward labelled "NOT TO BE OPENED AT SEA"	
3.10	Sea cocks or valves on through-hull openings below waterline	
3.12	Heel of keel-stepped mast is securely fastened to structure	
<u>3.18.1</u>	Toilet, permanently installed	
3.19.1	Bunks, permanently installed	
3.20	Cooking stove, permanently installed, with fuel shut-off	
3.21.1	Sufficient drinking water (in water tank or reusable containers)	
3.22	Hand holds below deck	
3.27.4	Spare bulbs for navigation lights (not required for LED)	
3.28.4	Batteries are of sealed type	
3.28.4	Separate engine starting battery or hand-starting device	
3.29.6	25W DSC enabled VHF w/ masthead antenna & programmed MMSI	
3.29.7	AIS Transponder w/ shared masthead or raised dedicated antenna	
4.03	Tapered soft wood plug at each through-hull opening	
4.05.1	Fire blanket adjacent to every cooking device	
4.05.2	2 fire extinguishers, 2 kg each in different parts of the boat	
<u>4.12</u>	Safety equipment location chart	
	At Helm or Ready for Rapid Deployment	
4.19.2	406 MHz EPIRB, with internal GPS	
4.22.2	For double handed, GPS to track crew overboard from on deck	
4.22.2	GPS with crew overboard locating feature (MOB button)	
4.22.3	Lifebuoy with self-igniting light, whistle and drogue	
4.22.3	Lifebuoy with self-igniting light, whistle, drogue and, pole and flag	
4.22.4	Heaving line, pref. 'Throwing sock' type, 6mm (1/4") 15-25m (50-75')	
4.22.5	Recovery Sling (Lifesling® or equivalent)	
4.25	Strong, sharp knife, sheathed and securely restrained	

	On Deck, Where Stowed or Ready for Deployment	
3.08.4	Hatch blocking devices (panels) attached and can be secured in place	
4.06.1	2 suitably sized anchors and rode ready for immediate use	
4.07	Watertight (IP67) searchlight to find person overboard or collision avoidance	
<u>4.20.1</u>	Liferaft(s) capable of carrying the whole crew	
4.20.2	Liferaft SOLAS Pack A or ISO Pack 2 (less than 24 hours)	
4.20.3	Liferaft(s) stowed in rigid container, or valise in dedicated locker	
	Rigged/Fitted to Demonstrate Use	
3.27.1	Navigation lights, above sheerline and not obscured when sailing	
3.27.3	Reserve navigation lights, can be powered separately	
4.01.2	Alternate method for displaying sail letters and numbers	
4.04.2	Jack stays are independent on each side of the deck	
4.04.2	Jack stays to permit crew to move between workstations while clipped	
4.04.3	Clipping points at workstations so that 2/3 can clip on without jack stays	
<u>4.10.1</u>	Radar reflector, 30 cm (12") dia. octahedral or minimum RCS of 2 m <sup>2</sup>	
<u>4.15.1</u>	Emergency tiller	
4.15.2	Proven method of emergency steering with the rudder disabled	
4.26.1	Either a storm trysail or reefing to reduce mainsail luff by 50%	
4.26.2	Heavy weather jib, attachable independent of luff groove	
4.26.3	Storm jib, attachable independent of luff groove (permanent)	
4.27.1	Sheeting positions for each heavy/storm sail	
	General	
<u>2.04</u>	All equipment is readily available, adequately sized, in date and functions	
2.04.2	Heavy items are permanently installed or securely fastened	
3.02	Boat is strongly built, seaworthy and watertight	
3.08.1	Forward hatches open outward only	
3.08.2	Hatches are attached, above water at 90° heel & operable if capsized	
3.08.5	Companionway sill is above local sheerline, or acceptable alternative	
3.09	Cockpit is strong, watertight and meets OSR size and drainage	

<u>3.14</u>	Double lifelines & pulpits, surround entire deck, 600 mm (24") high	
3.14.3	Lifeline materials and diameters meet OSR	
<u>3.17.1</u>	25 mm (1") toe rail around foredeck	
3.21.3	Emergency drinking water 2 L (0.5 US Gal) per person, in dedicated, sealed containers	
3.23.1	2 strong buckets, each with lanyard and 9 L (2.4 US Gal) capacity	
3.23.1	Permanently installed manual bilge pumps, 1 operable above, 1 below deck	
3.23.2	Permanently installed manual bilge pump operable with all hatches closed	
<u>3.24</u>	Magnetic compass, unpowered, with deviation chart	
3.24	2nd magnetic compass, may be hand-held and/or electronic	
<u>3.25</u>	2 halyards per mast, each capable of hoisting a sail	
3.28.1	Propulsion engine provides minimum speed of 3/4 hull speed	
3.28.1	Inboard propulsion engine	
3.28.3	Fuel or battery capacity to motor at 3/4 hull speed for 5 hours + electric needs	
<u>4.01.1</u>	Sail letters and numbers meeting RRS 77 & RRS G	
4.13.1	Knotmeter or log	
4.13.2	Depth sounder	
<u>4.17</u>	Boat's name on buoyant equipment	
<u>4.18</u>	Marine grade retro-reflective material on buoyant equipment	
4.30	Emergency pump, electric or engine powered, 200 L/min (3200 US gph)	