**World Sailing Offshore Special Regulations** 

#### Extract for Category 3 Multihulls with Liferaft

#### JANUARY 2024 – DECEMBER 2025

World Sailing

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#### Version 1.13 – 24 February 2024

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

The inspection card is attached as  $\underline{Appendix F}$  below.

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Official interpretations shall take precedence over these Special Regulations and will be indexed, numbered, dated and displayed on the World Sailing website:

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 BLUE TYPE indicates a {state your MNA here} prescription.

#### BOLD Green TYPE indicates a {state your race here} prescription.

*Guidance notes and recommendations have been removed from the Regulations and are available on* <u>https://www.sailing.org/inside-world-sailing/rules-regulations/offshore-special-regulations/</u>

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

#### Administration

The Offshore Special Regulation are administered by the World Sailing Special Regulation Sub-Committee whose terms of reference (available at: <u>https://www.sailing.org/inside-world-sailing/rules-regulations/constitution-regulations/</u>) are as follows:

World Sailing Regulation 6.9.8.3 - The Special Regulations Sub-Committee shall:

- (a) be responsible for the maintenance, revision and changes to the World Sailing Offshore Special Regulations governing offshore racing, under licence from ORC Ltd. Such changes shall be biennial with revised editions published in January of each even year, except that matters of an urgent nature affecting safety may be dealt with by changes to the Regulations on a shorter time scale.
- (b) monitor developments in offshore racing relative to the standards of safety and seaworthiness.

Any queries please email: <u>technical@sailing.org</u>

# **SECTION 1 – FUNDAMENTAL AND DEFINITIONS**

Categories	1.01	<b>Purpose and</b>	Use
**	1.01.1		the Offshore Special Regulations ( <u>OSR</u> ) is to establish uniform minimum commodation and training standards for <b>monohull</b> and <b>multihull</b>
		• •	a [asymmetrical catamaran]) boats racing offshore.
**	1.01.2	Classification S	t replace, but supplement, the requirements of governmental authority, ociety certification, the Racing Rules of Sailing ( <u>RRS</u> ), Equipment Rules of
**	1.01.3	Use of the <u>OSR</u> attention is dra adequate shelt	class rules and rating systems. does not guarantee total safety of the boat and her crew. Particular wn to the description of <u>OSR</u> for inshore racing which includes that er and or effective rescue is available all along the course. This is not re onerous <u>OSR</u> categories.
	1.02	Responsibilit	y of Person in Charge
**	<u>1.02.1</u>	Under <u>RRS</u> 3	the responsibility for a boat's decision to participate in a race or
		inescapable r ensure that t experienced a weather. The	ng is hers alone. The safety of a boat and her crew is the sole and responsibility of the <i>person in charge</i> who shall do his best to he boat is fully found, thoroughly seaworthy and manned by an and appropriately trained crew who are physically fit to face all <i>person in charge</i> shall also assign a person to take over his
**	<u>1.02.2</u>	Neither the est inspection of a	es in the event of his incapacitation. ablishment of the <u>OSR</u> , nor their use by <i>organising authorities</i> , nor the boat under the <u>OSR</u> in any way limits or reduces the complete and onsibility of the <i>person in charge</i> .
**	1.02.3	•	g in a race conducted under the <u>OSR</u> , the <i>person in charge</i> , each competito
			r agrees to reasonably cooperate with the <i>organising authority</i> and World
		Sailing in the d	evelopment of an independent incident report as specified in OSR 2.02.
	1.03	Definitions, A	bbreviations, Word Usage
**	1.03.1	Table 1 – Def	initions 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
		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>
Lн	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

# **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.
**	<u>2.04.2</u>	Heavy items shall be permanently installed or securely fastened.

Categories		A boat shall be/have:
-	3.01	Strength of Build and Rig
**	3.01.1	Properly rigged, fully seaworthy and shall meet the OSR.
**	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.
	<u>3.02</u>	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> .
	3.05	Stability and Flotation – Multihulls
Mu0,1,2,3,4	<u>3.05.1</u>	Watertight bulkheads and compartments (which may include permanently installed
		flotation material) in each hull, to ensure that the boat is effectively unsinkable and capable
		of floating in a stable position with at least half the length of one hull flooded (see <u>OSR</u>
		3.13.2).
Mu0,1,2,3,4	3.05.2	If <u>first launched</u> after 1998, a boat shall have transverse watertight bulkheads at intervals
		of not more than 4 m (13'-3") in every hull without accommodations.
Mu0,1,2,3,4	3.05.3	Designed and built to resist capsize.
	3.07	Exits, Escape Hatches, Underside Clipping Points and Handholds – Multihulls
M. 0 1 2 2	<u>3.07.1</u>	
Mu0,1,2,3	2 07 2	<ul> <li>a) At least two exits in each hull which contains accommodations.</li> <li>Escape Hatches – General</li> </ul>
Mu0,1,2,3,4	<u>3.07.2</u>	a) If 12 m (39'-4") $L_{\rm H}$ and greater each hull which contains accommodation shall have:
Mu0,1,2,3,4 Mu0,1,2,3,4		i an escape <u>hatch</u> for access to and from the hull in the event of an inversion,
Mu0,1,2,3,4		ii <u>first launched</u> after 2002, a minimum clearance diameter through each escape
140,1,2,3,1		hatch of 450 mm (18") or when an escape hatch is not circular, sufficient
		clearance to allow a <u>crewmember</u> to pass through fully clothed,
Mu0,1,2,3,4		iii each escape <u>hatch</u> to be above the <b>waterline</b> when the boat is inverted,
Mu0,1,2,3,4		iv if <u>first launched</u> after 2000, each escape <u>hatch</u> to be at or near the midships
, , , , ,		station.
Mu0,1,2,3,4		b) Each escape <u>hatch</u> shall have been opened both from inside and outside within 6
		months prior to the race.
	3.07.3	Escape Hatches – Catamarans
Mu0,1,2,3,4		If <u>first launched</u> after 2002, each escape <u>hatch</u> to be on the side nearest the vessel's
		central axis.
	3.07.4	Escape Hatches – Trimarans
Mu0,1,2,3,4		a) If <u>first launched</u> after 2002 with $\underline{L}_{H}$ 12 m (39'-4") and greater, at least two escape
		hatches in compliance with the dimensions in OSR 3.07.2 a) ii,
	<u>3.07.5</u>	
Mu0,1,2,3,4		On the underside, appropriate handholds and clipping points of sufficient capacity to enable
		all <u>crewmembers</u> to hold on and/or clip on securely.
Mu0,1,2,3,4		a) On a trimaran these shall be around the central hull.
Mu0,1,2,3,4		b) On a catamaran <u>first launched</u> after 2002, with a central nacelle, these shall be
	2 07 6	around the central nacelle. Escape Hatch Alternatives
Mu2,3,4	5.07.0	If a boat has $L_{\rm H}$ less than 12 m (39'-4") it shall have escape <u>hatches</u> in compliance with
Muz,J,T		OSR 3.07.2 a), 3.07.4 a) and 3.07.4 b) or:
Mu2,3,4		a) in each hull which contains accommodation, a station where an emergency <u>hatch</u> may
		be cut. The cutting line shall be clearly marked both inside and outside with an outline
		and the words "ESCAPE CUT HERE", and
Mu2,3,4		b) tools suitable for cutting the emergency <u>hatch</u> , ready for instant use, adjacent to the
		cutting site. Each tool shall be secured to the vessel by a lanyard.

Categories		A boat shall be/have:	
	3.08	Hatches & Companionways	
**	<u>3.08.1</u>	<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	
-tt-		0.071 m <sup>2</sup> (110 in <sup>2</sup> ).	
**	<u>3.08.2</u>	A <u>hatch</u> , including a <u>hatch</u> over a locker shall be:	
**		<ul> <li>permanently attached and capable of being firmly shut immediately and remaining firmly shut in a 180° capsize,</li> </ul>	
**	<u>3.08.3</u>	<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 hatches:	
**	<u>5.00. 1</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.	
Mu0,1,2,3,4	<u>3.08.7</u>	If a <b>multihull</b> with a companionway <u>hatch</u> extending below the local sheerline a boat shall either:	
Mu0,1,2,3,4		a) have a minimum sill height of 300 mm (12") and be capable of being blocked off up to the level of the local sheerline whilst giving access to the interior with the blocking device(s) in place, or	
Mu0,1,2,3		b) be in compliance with <u>ISO</u> 11812 to design category A.	
	<u>3.09</u>	Cockpits	
	3.09.1	General	
**		<ul> <li>cockpits shall self-drain quickly by gravity at all angles of heel and are permanently incorporated as an integral part of the boat,</li> </ul>	
**		<ul> <li>b) a cockpit sole shall be at least 2% LwL above the waterline (or in IMS boats with <u>first</u> launch before 2003, at least 2% L above the waterline), and</li> </ul>	
**		c) a bow, lateral, central, or stern well is a cockpit for the purposes of <u>OSR</u> 3.09.	
	3 00 2	Cockpit Volume	
**	5.05.2	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% (LwL x maximum beam x freeboard abreast the	
		cockpit),	
**		<ul> <li>c) series date 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</li> </ul>	
		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') $\underline{L}_{\underline{H}}$ : 2 x 25 mm (1") diameter or equivalent,	
**		b) if 8.5 m (28') $\underline{L}_{\mathrm{H}}$ or greater: 4 x 20 mm (3/4") diameter or equivalent.	
	3.10	Sea Cocks or Valves	
**	0110	<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.	
	3.11	Sheet Winches	
**	0.111	Sheet winches mounted in such a way that an operator is not required to be substantially below deck.	
	2 1 2	Mast Step	
**	<u>3.12</u>	The heel of a keel stepped mast <u>securely fastened</u> to the mast step or adjoining structure.	
	3.13		
ΜοΩΜυ**		Watertight Bulkheads	
Mo0Mu**	<u>3.13.1</u>	Either a watertight "crash" bulkhead within 15% of $\underline{L}_{\underline{H}}$ from the bow and abaft the forward end of $\underline{L}_{WL}$ , or <u>permanently installed</u> closed-cell foam buoyancy effectively filling the	
		forward 30% $L_{\rm H}$ of the hull.	

	IRUCIU	JRAL FEATURES, STABILITY, FIXED EQUIPMENT
Categories		A boat shall be/have:
Mo0Mu**	3.13.2 <b>3.14</b>	Any required watertight bulkhead to be strongly built to take a full head of water pressure without allowing any leakage into the adjacent compartment. <b>Pulpits, Stanchions, Lifelines</b>
	3.14.1	General
**	5.14.1	The perimeter of the deck surrounded by system of <u>lifelines</u> and pulpits as follows:
**		a) continuous lifelines 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> ,
**		b) minimum heights of <u>lifelines</u> and pulpit rails above the working deck and vertical
		openings:
**		i upper: 600 mm (24"),
**		ii intermediate: 230 mm (9"),
**		iii 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"),
MoMu3,4		iv a boat less than 8.5 m (28') <u>L</u> may use a single <u>lifeline</u> system with a height between 450 mm (18") and 560 mm (22").
**		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,
**		d) pulpit and stanchion bases <u>permanently installed</u> with pulpits and stanchions
deale		mechanically retained in their bases,
**		e) <u>if a boat's first launch date is after 2024</u> , 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, where 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.
<b>*</b> *		<ul> <li>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"),</li> </ul>
		Ø360 mm

#### 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,

		IRAL FEATURE			
Categories		A boat shall be			
**			-		lifeline at the mid-point of the
		longest sp	an between supp	orts that are aft of the mas	st, the deflection shall not
		exceed:			
**			• • • • • •	er or single <u>lifeline,</u>	
**		ii 120 r	nm (4 ¾") for an	intermediate <u>lifeline.</u>	
	3.14.2			lpits, Stanchions, Lifelin	
Mu0,1,2,3,4					arding pulpits, stanchions,
			-	ohulls shall be followed as	closely as possible.
	3.14.3	Lifeline Speci			
Mo4Mu**		b) <u>lifelines</u> of			
Mo4Mu**			ded stainless stee	l wire, or	
Mo4Mu**		ii <u>HMPE</u>			
**		•		pecified in table 4 below,	
**					hout close-fitting sleeving,
		-	· ·	ig may be fitted provided it	is regularly removed for
		inspection	•		
**			• •		<u>lines</u> provided the gap it closes
steste			•	4"). This lanyard shall be re	
**				<u>ne</u> enclosure system shall h	ave a breaking strength no less
NA ANA 44		than the <u>l</u>			
Mo4Mu**				-	and spliced in accordance with
**				ended procedures.	
<u>ት</u>			line Diameter R	1	1
		<u>L</u> H			HMPE Core (Braid on braid)
			diameter	min. <u>lifeline</u> diameter	min. <u>lifeline</u> outside
					diameter
		under 8.5 m	3 mm (1/8″)	4 mm (5/32″)	6 mm (1/4″)
		(28')			
		8.5m – 13 m	4 mm (5/32")	5 mm (3/16")	7 mm (9/32″)
		L		E (2/1 <i>C/</i> )	7 mm (0/22//)
		over 13 m	5 mm (3/16")	$15 \text{ mm} (3/16^{\circ})$	
		over 13 m (42' 8")	5 mm (3/16")	5 mm (3/16")	7 mm (9/32")
	2.15	(42′ 8″)			7 mm (9/32)
	<u>3.15</u>	(42' 8") Multihull Net	5 mm (3/16") s or Trampoline		7 mm (9/32)
Μυθ 1 2 3 4	<u>3.15</u> 3.15.1	(42' 8") Multihull Net General	s or Trampoline	s	
Mu0,1,2,3,4		(42' 8") Multihull Net General The words "net	s or Trampoline		
Mu0,1,2,3,4		(42' 8") Multihull Net General The words "net a) essentially	s or Trampoline	<b>s</b> " are interchangeable. A n	et shall be:
		(42' 8") Multihull Net General The words "net a) essentially b) made from	s or Trampoline " and "trampoline horizontal, n durable woven	s " are interchangeable. A n webbing, water permeable	et shall be: fabric, or mesh with openings
Mu0,1,2,3,4		(42' 8") Multihull Net General The words "net a) essentially b) made from not larger	s or Trampoline " and "trampoline horizontal, n durable woven than 5 cm (2") ir	s " are interchangeable. A n webbing, water permeable any dimension. Attachmen	et shall be: fabric, or mesh with openings nt points shall be planned to
Mu0,1,2,3,4		(42' 8") Multihull Net General The words "net a) essentially b) made from not larger avoid char	s or Trampoline " and "trampoline horizontal, n durable woven than 5 cm (2") ir	s " are interchangeable. A n webbing, water permeable	et shall be: fabric, or mesh with openings nt points shall be planned to
Mu0,1,2,3,4 Mu0,1,2,3,4		(42' 8") Multihull Net General The words "net a) essentially b) made from not larger avoid char trapping,	s or Trampoline " and "trampoline " horizontal, n durable woven than 5 cm (2") ir fe. The junction b	s " are interchangeable. A n webbing, water permeable any dimension. Attachmen etween a net and a boat sl	et shall be: fabric, or mesh with openings nt points shall be planned to nall present no risk of foot
Mu0,1,2,3,4		(42' 8") Multihull Net General The words "net a) essentially b) made from not larger avoid chai trapping, c) solidly fixe	s or Trampoline " and "trampoline horizontal, n durable woven than 5 cm (2") in fe. The junction b	s " are interchangeable. A n webbing, water permeable any dimension. Attachmen etween a net and a boat sl vals on transverse and long	et shall be: fabric, or mesh with openings nt points shall be planned to
Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4		<ul> <li>(42' 8")</li> <li>Multihull Net:</li> <li>General</li> <li>The words "net</li> <li>a) essentially</li> <li>b) made from not larger avoid char trapping,</li> <li>c) solidly fixe be fine sti</li> </ul>	s or Trampoline " and "trampoline horizontal, n durable woven than 5 cm (2") ir fe. The junction b ed at regular inter tched to a bolt ro	<b>s</b> " are interchangeable. A n webbing, water permeable any dimension. Attachmen etween a net and a boat sl vals on transverse and long pe, and	et shall be: fabric, or mesh with openings nt points shall be planned to nall present no risk of foot gitudinal support lines and shall
Mu0,1,2,3,4 Mu0,1,2,3,4		<ul> <li>(42' 8")</li> <li>Multihull Net: General</li> <li>The words "net a) essentially</li> <li>b) made fror not larger avoid chai trapping,</li> <li>c) solidly fixe be fine stii</li> <li>d) able to cai</li> </ul>	s or Trampoline " and "trampoline horizontal, n durable woven y than 5 cm (2") ir fe. The junction b ed at regular inter tched to a bolt ro rry the full weight	s " are interchangeable. A n webbing, water permeable any dimension. Attachmen etween a net and a boat sl vals on transverse and long pe, and to f the crew either in norm	et shall be: fabric, or mesh with openings nt points shall be planned to nall present no risk of foot
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SECTION 3 – S	STRUCTL	JRAL FEATURES, STABILITY, FIXED EQUIPMENT
Categories		A boat shall be/have:
	3.15.3	Trimarans with Single Crossbeams
Mu0,1,2,3,4		A trimaran with a single crossbeam shall have nets between the central hull and each
		outrigger on each side between two straight lines from the intersection of the crossbeam
		and the outrigger, respectively to the aft end of the pulpit on the central hull, and to the
		aftermost point of the cockpit or steering position on the central hull (whichever is furthest
		aft).
	3.15.4	Catamarans
Mu0,1,2,3,4		A catamaran shall have nets covering the area defined laterally by the hulls and
		longitudinally by transverse stations through the forestay base and the aftermost point of
		the boom lying fore and aft. However, a catamaran with a central nacelle (non-immersed)
		may satisfy the regulations for a trimaran.
**	3.16	Spare
	3.18	Toilet
MoMu3,4	<u>3.18.2</u>	Permanently installed toilet or fitted bucket.
	3.19	Bunks
MoMu1,2,3,4	<u>3.19.1</u>	Permanently installed bunks.
	<u>3.20</u>	Cooking Facilities
MoMu0,1,2,3		Permanently installed 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>	-
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.
	<u>3.21.3</u>	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).
	<u>3.22</u>	Hand Holds
**		Adequate hand holds fitted below deck.
	3.23	Bilge Pumps and Buckets
**	<u>3.23.1</u>	a) two strong buckets, each with a lanyard and of at least 9 L (2.4 US Gal) capacity,
Mu0,1,2,3,4		e) provision to pump out all watertight compartments (except those filled with
steate		impermeable buoyancy).
**	<u>3.23.2</u>	All required <u>permanently installed</u> bilge pumps shall be operable with all cockpit seats,
		hatches and companionways shut and with permanently installed discharge pipe(s) of
**	2 22 2	sufficient capacity.
<b>*</b> *	3.23.3	Bilge pumps shall not be connected to cockpit drains and shall not discharge into a
**	2 22 4	contained cockpit.
**	3.23.4 3.23.5	Bilge pumps shall be readily accessible for maintenance and for clearing out debris.
		All removable bilge pump handles retained by a lanyard.
MoMu0,1,2,3	<u>3.24</u>	<b>Compass</b> 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.
1101100,1,2,5	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
. 101 100/172/5	512512	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.
	-	

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Categories		A boat shall be/have:
**	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
	3.28.1	Propulsion Engines
**		a) engines and associated systems installed in accordance with their manufacturers'
		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 $\sqrt{L_{WL}}$ in metres) or
		$(\sqrt{L_{WL}} \text{ in feet}),$
Mu1,2,3		d) inboard engine, however, if less than 12.0 m (39'-4") $\underline{L}_{\underline{H}}$ either an inboard engine, or
		an outboard engine together with <u>permanently installed</u> power supply systems,
**		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>
		installed power supply, adequate heavy weather protection and have an engine
		control system.
	3.28.2	,
**		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	-
MoMu0,1,2,3		a) all fuel tanks for storage of liquid fuels shall be rigid (but may have <u>permanently</u>
		installed flexible linings) and shall have a shutoff valve,
MoMu0,1,2,3		b) 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.
	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		c) a dedicated engine/generator starting battery when an electric starter is the only
		method for starting the engine and/or separate generator,
	3.29	Communications Equipment, GPS, Radar, AIS
Mo1,2,3	<u>3.29.1</u>	A hand-held marine VHF transceiver for each grab bag, watertight or with a waterproof
Mu1,2,3,4		cover. When not in use to be stowed in the grab bag or emergency container (see OSR
		4.21).
**	<u>3.29.4</u>	A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of
		receiving weather bulletins.
MoMu0,1,2,3	<u>3.29.5</u>	A marine radio transceiver with an emergency antenna when the regular antenna depends
		upon the mast.
MoMu0,1,2,3	<u>3.29.6</u>	If the marine radio transceiver is a VHF:
MoMu0,1,2,3		a) a minimum rated output power of 25 W,
MoMu1,2,3		b) if installed after 2015 be <u>DSC</u> capable,
MoMu3		e) a masthead antenna and co-axial feeder cable with not more than 40% power loss,
MoMu1,2,3		f) <u>DSC</u> capable VHF transceivers shall be programmed with an assigned MMSI (unique
		to the boat), be connected to a <u>GPS</u> receiver and be capable of making distress alert
		calls as well as sending and receiving a <u>DSC</u> position report with another <u>DSC</u>
		equipped station,
Mo0,1,2,3	<u>3.29.7</u>	An <u>AIS</u> Transponder which either:
Mu1,2,3		
MoMu0,1,2,3		a) shares the masthead VHF antenna via a low loss <u>AIS</u> antenna splitter, or

# SECTION 3 – STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT Categories A boat shall be/have: MoMu0,1,2,3 b) has a dedicated <u>AIS</u> antenna not less than 38 cm (15") in length mounted with its base not less than 3 m (10') above the **waterline** and co-axial feeder cable with not more than 40% power loss. MoMu3 3.29.8 A <u>GPS</u>.

# **SECTION 4 – PORTABLE EQUIPMENT**

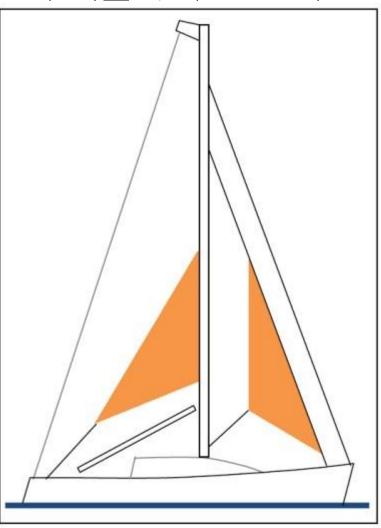
Categories		A boat shall have:
	4.01	Sail Letters & Numbers
**	<u>4.01.1</u>	Identification on sails which complies with <u>RRS</u> 77 and <u>RRS</u> Appendix G.
MoMu0,1,2,3	<u>4.01.2</u>	An alternative means of displaying identification as required under <u>RRS</u> Appendix G for a
		mainsail, to be displayed when none of the numbered sails are set.
	4.02	Search and Rescue Visibility
Mu0,1,2,3,4	<u>4.02.3</u>	A 1 m <sup>2</sup> (11 ft <sup>2</sup> ) area of highly visible pink, orange or yellow showing when the boat is
		inverted.
	<u>4.03</u>	Soft Wood Plugs
**		A tapered soft wood plug stowed adjacent to every through-hull opening.
M-M-0 1 2 2	4.04	Jackstays and Clipping Points
MoMu0,1,2,3	4.04.1	<u>Permanently Installed</u> fittings for <u>jackstay</u> ends and clipping points.
MoMu0,1,2,3	<u>4.04.2</u>	<u>Jackstays</u> which shall:
MoMu0,1,2,3		<ul><li>a) be independent on each side of the deck,</li><li>b) enable a <u>crewmember</u> to move readily between the working areas on deck and the</li></ul>
MoMu0,1,2,3		<ul> <li>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,</li> </ul>
MoMu0,1,2,3		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 <u>HMPE</u> rope.
MoMu0,1,2,3	4.04.3	Clipping points which shall:
MoMu0,1,2,3	110 115	a) be adjacent to stations such as the helm, sheet winches and masts, where
		crewmembers work,
MoMu0,1,2,3		b) enable a <u>crewmember</u> to clip on before coming on deck and unclip after going below,
MoMu0,1,2,3		c) enable two-thirds of the crew to be simultaneously clipped on without depending on
		jackstays,
Mu0,1,2,3		d) on a trimaran with a rudder on the outrigger, permit a <u>crewmember</u> to repair the
	4.05	steering mechanism whilst attached to a clipping point. Fire Fighting Equipment
**	4.05 4.05.1	A fire blanket adjacent to every cooking device.
MoMu1 2 3		· · ·
MoMu1,2,3	4.05.2	2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the
MoMu1,2,3	<u>4.05.2</u>	2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.
	<u>4.05.2</u> <b>4.06</b>	2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat. Anchors
MoMu1,2,3 MoMu1,2,3	<u>4.05.2</u>	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>2 un-modified anchors that meet the anchor manufacturer's recommendation based on the</li> </ul>
	<u>4.05.2</u> <b>4.06</b>	2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat. Anchors
	<u>4.05.2</u> <b>4.06</b>	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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</li> </ul>
	<u>4.05.2</u> <b>4.06</b>	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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</li> </ul>
MoMu1,2,3 Mo0,1,2,3	4.05.2 4.06 4.06.1	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') LH there shall be 1 anchor meeting the same criteria.</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu**	4.05.2 4.06 4.06.1	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') L there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> </ul>
MoMu1,2,3 Mo0,1,2,3	4.05.2 4.06 4.06.1	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') LH there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3	4.05.2 4.06 4.06.1	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') Lit there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mo0,1,2,3	4.05.2 4.06 4.06.1	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') LH there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mo0,1,2,3 Mu**	4.05.2 4.06 4.06.1	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') L there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> <li>b) stowed in each grab bag (see OSR 4.21), a flashlight in addition to OSR 4.07 a).</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mo0,1,2,3	4.05.2 4.06 4.06.1 4.07	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors <ul> <li>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') LH there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> </ul> </li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> <li>b) stowed in each grab bag (see OSR 4.21), a flashlight in addition to OSR 4.07 a).</li> </ul> <li>c) the flashlight in OSR 4.07 b) shall be stowed in the grab bag (see OSR 4.21).</li>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mo0,1,2,3 Mu** Mo0,1,2,3 Mu**	4.05.2 4.06 4.06.1	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors <ul> <li>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') LH there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> <li>b) stowed in each grab bag (see <u>OSR 4.21</u>), a flashlight in addition to <u>OSR 4.07 a</u>).</li> </ul> </li> <li>c) the flashlight in <u>OSR 4.07 b</u>) shall be stowed in the grab bag (see <u>OSR 4.21</u>).</li> <li>First Aid Manual and First Aid Kit</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mo0,1,2,3 Mu** Mo0,1,2,3	4.05.2 4.06 4.06.1 4.07	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') L<sub>H</sub> there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> <li>b) stowed in each grab bag (see <u>OSR 4.21</u>), a flashlight in addition to <u>OSR 4.07 a</u>).</li> <li>c) the flashlight in <u>OSR 4.07 b</u>) shall be stowed in the grab bag (see <u>OSR 4.21</u>).</li> <li>First Aid Manual and First Aid Kit</li> <li>A First Aid Manual and First Aid Kit. The contents and storage of the First Aid Kit shall</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mo0,1,2,3 Mu** Mo0,1,2,3 Mu**	4.05.2 4.06 4.06.1 4.07 4.07	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') L<sub>H</sub> there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> <li>b) stowed in each grab bag (see <u>OSR 4.21</u>), a flashlight in addition to <u>OSR 4.07 a</u>).</li> <li>c) the flashlight in <u>OSR 4.07 b</u>) shall be stowed in the grab bag (see <u>OSR 4.21</u>).</li> <li>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>.</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mu** Mo0,1,2,3 Mu** **	4.05.2 4.06 4.06.1 4.07	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') L<sub>H</sub> there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> <li>b) stowed in each grab bag (see <u>OSR 4.21)</u>, a flashlight in addition to <u>OSR 4.07 a</u>).</li> <li>c) the flashlight in <u>OSR 4.07 b</u>) shall be stowed in the grab bag (see <u>OSR 4.21)</u>.</li> <li>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>.</li> <li>Foghorn</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mo0,1,2,3 Mu** Mo0,1,2,3 Mu**	4.05.2 4.06 4.06.1 4.07 4.07 4.08 4.09	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors <ul> <li>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') L there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> <li>b) stowed in each grab bag (see <u>OSR 4.21)</u>, a flashlight in addition to <u>OSR 4.07 a</u>).</li> </ul> </li> <li>c) the flashlight in <u>OSR 4.07 b</u>) shall be stowed in the grab bag (see <u>OSR 4.21</u>).</li> <li>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>. Foghorn <ul> <li>A foghorn.</li> </ul> </li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mu** Mo0,1,2,3 Mu** **	4.05.2 4.06 4.06.1 4.07 4.07 4.08 4.09 4.10	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') Lt there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> <li>b) stowed in each grab bag (see OSR 4.21), a flashlight in addition to OSR 4.07 a).</li> <li>c) the flashlight in OSR 4.07 b) shall be stowed in the grab bag (see OSR 4.21).</li> <li>First Aid Manual and First Aid Kit</li> <li>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 crewmembers.</li> <li>Foghorn</li> <li>A foghorn.</li> <li>Radar Reflector</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mu** Mo0,1,2,3 Mu** **	4.05.2 4.06 4.06.1 4.07 4.07 4.08 4.09	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') Lt there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> <li>b) stowed in each grab bag (see OSR 4.21), a flashlight in addition to OSR 4.07 a).</li> <li>c) the flashlight in OSR 4.07 b) shall be stowed in the grab bag (see OSR 4.21).</li> <li>First Aid Manual and First Aid Kit</li> <li>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 crewmembers.</li> <li>Foghorn</li> <li>A foghorn.</li> <li>Radar Reflector</li> <li>A passive radar reflector with:</li> </ul>
MoMu1,2,3 Mo0,1,2,3 Mu** MoMu0,1,2,3 Mu** Mo0,1,2,3 Mu** ** **	4.05.2 4.06 4.06.1 4.07 4.07 4.08 4.09 4.10	<ul> <li>2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat.</li> <li>Anchors</li> <li>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') Lt there shall be 1 anchor meeting the same criteria.</li> <li>Flashlights and Searchlights</li> <li>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.</li> <li>a) a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> <li>b) stowed in each grab bag (see OSR 4.21), a flashlight in addition to OSR 4.07 a).</li> <li>c) the flashlight in OSR 4.07 b) shall be stowed in the grab bag (see OSR 4.21).</li> <li>First Aid Manual and First Aid Kit</li> <li>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 crewmembers.</li> <li>Foghorn</li> <li>A foghorn.</li> <li>Radar Reflector</li> </ul>

SECTION 4 - P	ORTABL	LE EQUIPMENT
Categories		A boat shall have:
**		<ul> <li>a non-octahedral reflector with a documented root mean square minimum Radar</li> <li>Cross Section (RCS) area of 2 m<sup>2</sup> (22 ft<sup>2</sup>) from 0–360° of azimuth and ±20° of heel.</li> </ul>
	4.11	Navigation Equipment
MoMu0,1,2,3	<u>4.11.1</u>	Navigational charts (not solely electronic) <del>, light list</del> and chart plotting equipment.
	<u>4.12</u>	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	<u>4.13.1</u>	A knotmeter or distance measuring instrument (log).
MoMu1,2,3,4	<u>4.13.2</u>	A depth sounder.
	4.14	Spare Number
	4.15	Emergency Steering
MoMu0,1,2,3	<u>4.15.1</u>	An emergency tiller capable of being fitted to the rudder stock except when:
MoMu0,1,2,3 MoMu0,1,2,3		<ul><li>a) the principal method of steering is by means of an unbreakable metal tiller,</li><li>b) there are two methods (e.g. tillers, wheels) of controlling a rudder, neither of which</li></ul>
		shares components with the other except for the rudder stock.
MoMu0,1,2,3	<u>4.15.2</u>	A proven method of emergency steering with the rudder disabled.
	4.16	Tools and Spare Parts
**	<u>4.16.1</u>	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.
	<u>4.17</u>	Boat's Name
**		The boat's name on miscellaneous buoyant equipment, such as lifejackets, cushions,
		lifebuoys, recovery slings, grab bags, etc.
	<u>4.18</u>	Retro-Reflective Material
**		Marine grade retro-reflective material on lifebuoys, recovery slings, liferafts and lifejackets.
	4.20	Liferafts
	<u>4.20.1</u>	
MoMu1,2		a) one or more inflatable liferafts with a total capacity to accommodate at least the total number of people on board which complies with:
MoMu1,2		i <u>LSA</u> Code 1997 Chapter IV or later version,
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 <u>ORC</u> liferafts manufactured before 2003 until replacement is due at end of service life.
	<u>4.20.2</u>	Minimum Liferaft Equipment
MoMu0,1,2		a) a <u>SOLAS</u> liferaft shall contain as a minimum a <u>SOLAS</u> A pack,
MoMu2		c) an <u>ISO</u> 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
M M 4 2		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		<li>iii pair of buoyant paddles with handles (not mitts) tied into raft adjacent to an entrance,</li>
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 LSA Code Chapter III, 3.2,
MoMu1,2		<ul> <li>xi 2 red parachute flares in accordance with <u>LSA</u> Code Chapter III, 3.1 – 1 may be stowed in the grab bag,</li> </ul>

SECTION 4 – F	PORTABL	LE EQUIPMENT
Categories		A boat shall have:
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		* may be packed in grab bag instead of liferaft.
110110172	4.20.3	
MoMu0,1,2	4.20.5	
MoMu0,1,2		<ul> <li>a rigid container securely stowed on the working deck, in the cockpit or in an open space, or</li> </ul>
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
		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		<ul> <li>Each raft shall be capable of being moved to the <u>lifelines</u> or launched within 15 seconds.</li> </ul>
MoMu1,2		e) In a boat with <b>series date</b> before June 2001, a liferaft may be packed in a valise not
		exceeding 40 kg securely stowed below deck adjacent to a companionway.
	4.20.4	
MoMu0,1,2		a) A liferaft shall be serviced at a manufacturer authorized service station at the
11011007172		following maximum intervals:
MoMu0,1,2		i <u>SOLAS</u> liferafts annually,
MoMu0,1,2		ii <u>ISO</u> 9650 canister packed liferafts every 3 years,
MoMu0,1,2		iii ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be
1101100,1,2		serviced annually,
MoMu0,1,2		iv <u>ISAF</u> liferafts annually,
MoMu0,1,2		v <u>ORC</u> liferafts annually.
MoMu0,1,2	4.24	b) Servicing certificates (original or a copy) on board.
M-0 1 2 2	4.21	Grab Bags
Mo0,1,2,3 Mu**	<u>4.21.1</u>	A grab bag shall have inherent flotation, at least $0.1 \text{ m}^2$ (1 ft <sup>2</sup> ) area of highly visible colour (e.g. dayglo yellow or orange) on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip. If a grab bag has to accompany a specific life raft, it shall
		be clearly marked with the identity of its corresponding raft.
	4.22	Crew Overboard Identification and Recovery
MoMu1,2,3	<u>4.22.2</u>	a) For boats with only two <u>crewmembers</u> , a GPS capable of recording a crew overboard position, within 10 seconds, and monitoring that position without having to go below deck.
	<u>4.22.3</u>	Lifebuoys
MoMu3,4		<ul> <li>a lifebuoy with a self-igniting light, a whistle, and a drogue within reach of the helmsman and ready for immediate use,</li> </ul>
**		e) each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions.
	4.22.4	
**		A heaving line, no less than 6 mm (1/4") diameter, 15–25 m (50–75') long, readily accessible to cockpit.
	4 22 E	Recovery Sling
	7.22.3	A recovery sling which includes a:
MoMu0,1,2,3		
MoMu0,1,2,3		a) buoyant line of length no less than the shorter of 4 times $\underline{L}_{\underline{H}}$ 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.

#### SECTION 4 – PORTABLE EQUIPMENT

	-	<b>v</b> -
Categories		A boat shall have:
	<u>4.23</u>	Pyrotechnic and Light Signals
**		Pyrotechnic signals shall be provided conforming to LSA Code Chapter III Visual Signals
		and not older than the stamped expiry date (if any) or if no expiry date stamped, not 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.
	4.24	Spare Number
	<u>4.25</u>	Cockpit Knife
**		A strong, sharp knife, in a securely restrained sheath shall be readily accessible from the
		deck or a cockpit.
	4.26	Storm & Heavy Weather Sail Inventory
**		the following storm & heavy weather sails as specified in OSR 4.27:
MoMu3	<u>4.26.1</u>	either a storm trysail or mainsail reefing to reduce the luff by at least 40% (or rotating
		wing mast if suitable),
MoMu0,1,2,3	<u>4.26.2</u>	heavy weather jib,
	4.27	Storm & Heavy Weather Sail Specifications
		Where required by <u>OSR</u> 4.26, the specifications of heavy weather sails shall follow:



#### Figure 3 – Storm Sails

#### 4.27.1 Design

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- 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

#### SECTION 4 – PORTABLE EQUIPMENT

Categories		A boat shall have:
**		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.
4	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	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)).

# **SECTION 5 – PERSONAL EQUIPMENT**

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>			
**		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>			
MoMu0,1,2,3		b) have an emergency position indicating light in accordance with either <u>ISO</u> 12402-8 or			
		LSA 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	<u>5.01.2</u>	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.			
**	<u>5.01.4</u>	The <i>person in charge</i> 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.			
	<u>5.02.2</u>	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	<u>5.02.3</u>	either:			
MoMu0,1,2,3		a) a <u>tether</u> not exceeding $1 \text{ m} (3'-3'')$ 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.			

# **SECTION 6 – TRAINING**

Categories	6.01	Training
MoMu3	<u>6.01.3</u>	When there are only two crewmembers, at least one shall have undertaken training within
		the five years before the start of the race in <u>OSR</u> 6.02 Training Topics.
	6.02	Training Topics
MoMu0,1,2,3	6.02.1	Giving Assistance to Other Craft
MoMu0,1,2,3	6.02.2	Personal Safety Gear, theory and practice
MoMu0,1,2,3	6.02.3	Care and Maintenance of Safety Gear
MoMu0,1,2,3	6.02.4	Fire Precautions and Firefighting, theory and practical
MoMu0,1,2,3	6.02.5	Crew Overboard Prevention and Recovery
MoMu0,1,2,3	6.02.6	Hypothermia, Cold Shock and Drowning
MoMu0,1,2,3	6.02.7	Crew Health
MoMu0,1,2,3	6.02.8	Marine Weather
MoMu0,1,2,3	6.02.9	Heavy Weather
MoMu0,1,2,3	6.02.10	Storm Sails
MoMu0,1,2,3	6.02.11	Damage Control
MoMu0,1,2,3	6.02.12	Search and Rescue Organisation
MoMu0,1,2,3	6.02.13	Pyrotechnics and Signalling Gear, theory and practical
MoMu0,1,2,3	6.02.14	Emergency Communications, theory and practical
MoMu0,1,2,3	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
MoMu3,4	<u>6.05.3</u>	At least two crewmembers shall be familiar with First Aid procedures, hypothermia,
		drowning, cardio-pulmonary resuscitation, and relevant communications systems.

## 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 <u>https://www.sailing.org/inside-world-sailing/rules-regulations/offshore-special-regulations/</u>

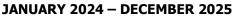
Appendix F begins on the next page.

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 3 Multihulls with Liferaft



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Inspector onlv1

Version 1.13 – 24 February 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 Number\_\_\_\_\_

No of persons on board\_\_\_\_\_

**Disclaimer of Liability** The inspection is carried out as a courtesy. An inspector cannot limit or reduce the complete and unlimited responsibility of the owner and the person in charge.

"I hereby declare that I am the *Person in Charge*, that wherever I initial an item on this checklist it conforms to its associated Offshore Special Regulations (OSR), that I have read and understand the OSRs and in particular 1.02.1 and 1.02.2

Signed\_\_\_\_\_Date\_\_\_\_\_

Printed Name

Note: PURPLE text indicates additional requirements to category 4

**Precedence:** The checklist below is in point form. In all cases the full text in the Offshore Special Regulations takes precedence.

			· / ·
	Person in Charge initials h	lere↓	
	Lay out on Chart Table or Other Surface		
<u>4.11.1</u>	Charts (not solely electronic), plotting equipment		
<u>4.20.4</u>	Servicing certificate for each liferaft		
6.01.2	Coastal personal survival training certificate for 30% of the crew (minimum 2)		
<u>6.01.3</u>	WS approved survival training certificates (doublehanded only)		
<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		
<u>6.05.3</u>	2 crewmembers familiar with 1st Aid, CPR & communication systems		
	Lay out on Bunk(s)		
<u>3.29.4</u>	2nd radio capable of receiving weather, could be the handheld VHF		
<u>3.29.5</u>	Emergency antenna for each type of installed radio transceiver		

<u>4.08</u>	First Aid Manual and First Aid Kit	
<u>4.09</u>	Foghorn	
<u>4.16.1</u>	Tools, spare parts, method to disconnect/sever standing rigging	
<u>4.23</u>	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>5.01.4</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	
<u>3.29.1</u>	Watertight handheld VHF radio transceiver stowed in each grab bag	
<u>4.07</u>	2nd watertight (IP67) flashlight with spare batteries and bulbs	
<u>4.21.1</u>	Grab bag for each raft, with inherent flotation and $0.1 \text{ m}^2$ (1 ft <sup>2</sup> ) bright colour	
	Below Deck Inspection	
<u>3.07.1</u>	2 exits in each hull which contains accommodations	
<u>3.07.2</u>	Escape hatch in each hull which contains accommodations	
<u>3.08.3</u>	Portlights that open inward labelled "NOT TO BE OPENED AT SEA"	
<u>3.10</u>	Sea cocks or valves on through-hull openings below waterline	
<u>3.12</u>	Heel of keel-stepped mast is securely fastened to structure	
<u>3.13.1</u>	Crash bulkhead or permanently installed foam buoyancy	
<u>3.18.2</u>	Toilet, permanently installed, or fitted bucket	
<u>3.19.1</u>	Bunks, permanently installed	
<u>3.20</u>	Cooking stove, permanently installed, with fuel shut-off	
<u>3.21.1</u>	Sufficient drinking water (in water tank or reusable containers)	
<u>3.22</u>	Hand holds below deck	
<u>3.27.4</u>	Spare bulbs for navigation lights (not required for LED)	
<u>3.28.4</u>	Batteries are of sealed type	
3.28.4	Separate engine starting battery or hand-starting device	

#### APPENDIX F - INSPECTION CARD

<u>3.29.6</u>	25W DSC enabled VHF w/ masthead antenna & programmed MMSI	
<u>3.29.7</u>	AIS Transponder w/ shared masthead or raised dedicated antenna	
<u>4.03</u>	Tapered soft wood plug at each through-hull opening	
<u>4.05.1</u>	Fire blanket adjacent to every cooking device	
<u>4.05.2</u>	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	
<u>4.22.2</u>	For double handed, GPS to track crew overboard from on deck	
<u>4.22.3</u>	Lifebuoy with self-igniting light, whistle and drogue	
<u>4.22.4</u>	Heaving line, pref. 'Throwing sock' type, 6mm (1/4") 15–25m (50–75')	
<u>4.22.5</u>	Recovery Sling (Lifesling® or equivalent)	
<u>4.25</u>	Strong, sharp knife, sheathed and securely restrained	
	On Deck, Where Stowed or Ready for Deployment	
<u>3.08.4</u>	Hatch blocking devices (panels) attached and can be secured in place	
<u>4.06.1</u>	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	
<u>4.20.2</u>	Liferaft SOLAS Pack A or ISO Pack 2 (less than 24 hours)	
<u>4.20.3</u>	Liferaft(s) stowed in rigid container, or valise in dedicated locker	
	Rigged/Fitted to Demonstrate Use	
<u>3.27.1</u>	Navigation lights, above sheerline and not obscured when sailing	
<u>3.27.3</u>	Reserve navigation lights, can be powered separately	
<u>4.01.2</u>	Alternate method for displaying sail letters and numbers	
<u>4.04.2</u>	Jack stays are independent on each side of the deck	
4.04.2	Jack stays to permit crew to move between workstations while clipped	
<u>4.04.3</u>	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 $m^2$	
<u>4.15.1</u>	Emergency tiller	
<u>4.15.2</u>	Proven method of emergency steering with the rudder disabled	
<u>4.26.1</u>	Either a storm trysail or reefing to reduce mainsail luff by 40%	
<u>4.26.2</u>	Heavy weather jib, attachable independent of luff groove	

<u>4.27.1</u>	Sheeting positions for each heavy/storm sail	
	General	
<u>2.04</u>	All equipment is readily available, adequately sized, in date and functions	
<u>2.04.2</u>	Heavy items are permanently installed or securely fastened	
<u>3.02</u>	Boat is strongly built, seaworthy and watertight	
<u>3.05.1</u>	Transverse watertight bulkheads 4 m (13'-3") in non-accommodation hulls	
<u>3.07.5</u>	Handholds and clipping points on underside of boat	
<u>3.08.1</u>	Forward hatches open outward only	
<u>3.08.2</u>	Hatches are attached, above water at 90° heel & operable if capsized	
<u>3.08.7</u>	Companionway sill is above local sheerline, or acceptable alternative	
<u>3.09</u>	Cockpit is strong, watertight and meets OSR size and drainage	
<u>3.14</u>	Double lifelines & pulpits, surround entire deck, 600 mm (24") high	
<u>3.15</u>	Nets (trampolines) meet OSR	
<u>3.21.3</u>	Emergency drinking water 2 L (0.5 US Gal) per person, in dedicated, sealed containers	
<u>3.23.1</u>	2 strong buckets, each with lanyard and 9 L (2.4 US Gal) capacity	
3.23.1	Provision to pump out all watertight compartments (excluding foam filled)	
<u>3.23.2</u>	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	
<u>3.28.1</u>	Propulsion engine provides minimum speed of 3/4 hull speed	
3.28.1	Propulsion engine, inboard if LH is 12 m or over	
<u>3.28.3</u>	Fuel or battery capacity to motor at 3/4 hull speed for 5 hours + electric needs	
<u>3.29.8</u>	GPS	
<u>4.01.1</u>	Sail letters and numbers meeting RRS 77 & RRS G	
<u>4.02.3</u>	1 m <sup>2</sup> fluorescent pink, orange or yellow on underside	
<u>4.13.1</u>	Knotmeter or log	
<u>4.13.2</u>	Depth sounder	
<u>4.17</u>	Boat's name on buoyant equipment	
<u>4.18</u>	Marine grade retro-reflective material on buoyant equipment	