**World Sailing Offshore Special Regulations** 

Extract for Category 1 Multihulls

## JANUARY 2024 – DECEMBER 2025

World Sailing

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### 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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## 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	
		and boat owner 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
		<u>OSR</u> to suit local conditions.
	2.01.2	Category 1
MoMu1		Races of long distance and well offshore, where boats must be completely self-sufficient for extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies without the expectation of outside assistance.
	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.
	<u>2.04</u>	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:
categoneo	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
	5.01.2	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
	5.01.5	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.
	5.02.1	centreboard or daggerboard trunks and the like shall not open into the interior of a hull
	2 02	except via a watertight maintenance <u>hatch</u> with the opening entirely above the <b>waterline</b> .
MaM.0 1 2	3.03	Hull Construction Standards (Scantlings)
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:
MoMu0,1,2		c) the EC Recreational Craft Directive for Category A having obtained the CE mark, or
MoMu0,1,2		d) <u>ISO</u> 12215 Category A, with written statements signed by the designer and builder
		confirming that they have respectively designed and built the boat in accordance with
		the <u>ISO</u> standard, and
MoMu0,1,2		e) have written statements or approvals in accordance with a), or b) or c) and d) above
		for all significant repairs or modifications to the hull, deck, coachroof, keel or
		appendages, on board, except
MoMu0,1,2		f) that an <i>organising authority</i> or class rules may accept, when that described in a), b),
		c), d) or e) above is not available, the signed statement by a naval architect or other
		person familiar with the standards listed above that the boat fulfils these
		requirements.
	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 OSR
		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
	<u>3.07.1</u>	Exits
Mu0,1,2,3		a) At least two exits in each hull which contains accommodations.
	<u>3.07.2</u>	Escape Hatches – General
Mu0,1,2,3,4		a) If 12 m (39'-4") $\underline{L}_{\underline{H}}$ and greater each hull which contains accommodation shall have:
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 if <u>first launched</u> after 2002, a minimum clearance diameter through each escape
		hatch of 450 mm (18") or when an escape hatch is not circular, sufficient
		clearance to allow a crewmember 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 first launched after 2000, each escape hatch 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	
Mu0,1,2,3,4		If first launched after 2002, each escape hatch to be on the side nearest the vessel's
		central axis.
	3.07.4	
Mu0,1,2,3,4		a) If <u>first launched</u> after 2002 with $L_{\rm H}$ 12 m (39'-4") and greater, at least two escape
		hatches in compliance with the dimensions in OSR 3.07.2 a) ii,

#### SECTION 3 – STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT Categories A boat shall be/have: If <u>first launched</u> after 2002 with $\underline{L}_{H}$ less than 12 m (39'-4"), at least one escape <u>hatch</u> Mu0,1 b) in compliance with the dimensions in OSR 3.07.2 a) ii, 3.07.5 Underside Clipping Points and Handholds On the underside, appropriate handholds and clipping points of sufficient capacity to enable Mu0,1,2,3,4 all crewmembers to hold on and/or clip on securely. Mu0,1,2,3,4 On a trimaran these shall be around the central hull. a) Mu0,1,2,3,4 b) On a catamaran first launched after 2002, with a central nacelle, these shall be around the central nacelle. 3.08 **Hatches & Companionways** \*\* 3.08.1 Hatch covers forward of the maximum beam station shall not open toward the interior of the boat, except hatches 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>). \*\* A <u>hatch</u>, including a <u>hatch</u> over a locker shall be: 3.08.2 \*\* permanently attached and capable of being firmly shut immediately and remaining a) firmly shut in a 180° capsize, \*\* Hatches not conforming with OSR 3.08.1 and OSR 3.08.2 shall be clearly labelled and used 3.08.3 in accordance with the following instruction "NOT TO BE OPENED AT SEA". \*\* 3.08.4 Companionway hatches: \*\* 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: \*\* capable of being retained in position with the hatch open or shut, i \*\* 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 3.08.7 If a **multihull** with a companionway <u>hatch</u> extending below the local sheerline a boat shall either: have a minimum sill height of 300 mm (12") and be capable of being blocked off up Mu0,1,2,3,4 a) to the level of the local sheerline whilst giving access to the interior with the blocking device(s) in place, or be in compliance with ISO 11812 to design category A. Mu0,1,2,3 b) Cockpits 3.09 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, a cockpit sole shall be at least 2% LwL above the waterline (or in IMS boats with first \*\* b) launch before 2003, at least 2% L above the waterline), and \*\* a bow, lateral, central, or stern well is a cockpit for the purposes of OSR 3.09. c) 3.09.2 Cockpit Volume \*\* The maximum combined volume below lowest coamings of all contained cockpits shall be: MoMu0,1 series date before April 1992: 6% (LwL x maximum beam x freeboard abreast the a) cockpit), \*\* series date after March 1992 as above for the appropriate category except that c) "lowest coamings" 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: \*\* if less than 8.5 m (28') $\underline{L}$ : 2 x 25 mm (1") diameter or equivalent, a) \*\* if 8.5 m (28') $L_{H}$ or greater: 4 x 20 mm (3/4") diameter or equivalent. b) <u>3.10</u> Sea Cocks or Valves \*\* Permanently installed sea cocks or valves on all through-hull openings below the waterline except for integral deck scuppers and instrument through-hulls.

Categories		boat shall be/have:	
	3.11	heet Winches	
**		neet winches mounted in such a way that an operator is not required	to be substantially
		elow deck.	
	<u>3.12</u>	ast Step	
**		ne heel of a keel stepped mast <u>securely fastened</u> to the mast step or	adjoining structure.
	3.13	/atertight Bulkheads	
Mo0Mu**	<u>3.13.1</u>	ther a watertight "crash" bulkhead within 15% of $\underline{L}_{\underline{H}}$ from the bow ar	id abaft the forward
		nd of $\underline{L}_{WL}$ , or <u>permanently installed</u> closed-cell foam buoyancy effectiv	ely filling the
		rward 30% $\underline{L}$ of the hull.	
Mo0Mu**	3.13.2	ny required watertight bulkhead to be strongly built to take a full hea	d of water pressure
		ithout allowing any leakage into the adjacent compartment.	
	<u>3.14</u>	ulpits, Stanchions, Lifelines	
	3.14.1	eneral	
**		ne perimeter of the deck surrounded by system of <u>lifelines</u> and pulpit	
**		continuous lifelines fixed only at (or near) the bow and stern. How	
		each side of a boat is permitted. Except at its end fittings and at g	
		of a <u>lifeline</u> in a fore-and-aft direction shall not be constrained. Te	mporary sleeving
		shall not modify tension in the <u>lifeline</u> ,	
**		minimum heights of <u>lifelines</u> and pulpit rails above the working de	ck and vertical
		openings:	
**		i upper: 600 mm (24"),	
**		ii intermediate: 230 mm (9"),	
**		iii vertical opening: no greater than 380 mm (15") except that o	
		series date before 1993 where it shall be no greater than 5	• •
**		lifelines permanently supported at intervals of not more than 2.2	m (7'-2 1/2") and
		not passing outboard of supporting stanchions,	
**		pulpit and stanchion bases <u>permanently installed</u> with pulpits and	stanchions
		mechanically retained in their bases,	
**		if a boat's first launch date is after 2024, the outside of pulpit and	
		tubes no further inboard from the perimeter of the deck than 5%	
		150 mm (6"), whichever is greater, nor further outboard than the	-
		deck, where the perimeter of the deck is defined as the hull and o	
		an angle of not more than 15 degrees to the horizontal in a trans	verse plane when
**		the yacht is upright,	
**		stanchions straight and vertical except that:	at ha dianlagad
		i within the first 50 mm (2") from the deck, stanchions shall no	•
		horizontally from the point at which they emerge from the de	ick of stanchion base
**		by more than 10 mm (3/8"),	at any point above
		ii stanchions may be angled to not more than $10^{\circ}$ from vertical 50 mm (2") from the dock	מג מוזע אטוווג מטטעפ
**		50 mm (2") from the deck. a bow pulpit may be open provided the opening between the pulp	ait and any part of
		<ul> <li>a bow pulpit may be open provided the opening between the pulp the boat does not exceed 360 mm (14"),</li> </ul>	nt and any part of
		(1 + j)	

#### SECTION 3 – STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT Categories A boat shall be/have: Ø360 mm Figure 2 – Diagram Showing Pulpit Opening \*\* lifelines may terminate at or pass through adequately braced stanchions set inside h) and overlapping the bow pulpit, \*\* when a deflecting force of 4 kg (8.8 #) is applied to a lifeline at the mid-point of the i) longest span between supports that are aft of the mast, the deflection shall not exceed: \*\* i 50 mm (2") for an upper or single lifeline, \*\* 120 mm (4 3/4") for an intermediate lifeline. ii 3.14.2 Special Requirements for Pulpits, Stanchions, Lifelines on Multihulls When on a boat it is impractical to precisely follow OSR regarding pulpits, stanchions, Mu0,1,2,3,4 lifelines, the regulations for monohulls shall be followed as closely as possible. 3.14.3 Lifeline Specifications Mo4Mu\*\* b) lifelines of either: Mo4Mu\*\* stranded stainless steel wire, or i Mo4Mu\*\* HMPE, ii \*\* The minimum diameter is specified in table 4 below, c) \*\* Stainless steel lifelines shall be uncoated and used without close-fitting sleeving, d) however, temporary sleeving may be fitted provided it is regularly removed for inspection, \*\* A lanyard of synthetic rope may be used to secure lifelines provided the gap it closes e) does not exceed 100 mm (4"). This lanyard shall be replaced annually, \*\* f) All components of the lifeline enclosure system shall have a breaking strength no less than the lifeline, Mo4Mu\*\* When HMPE is used, it shall be protected from chafe and spliced in accordance with g) the manufacturer's recommended procedures. \*\* Table 4 – Lifeline Diameter Requirements LH Wire Min. lifeline HMPE rope (Single braid) HMPE Core (Braid on braid) diameter min. lifeline diameter min. lifeline outside diameter under 8.5 m 3 mm (1/8") 4 mm (5/32") 6 mm (1/4") (28') 8.5m – 13 m 7 mm (9/32") 4 mm (5/32") 5 mm (3/16") over 13 m 5 mm (3/16") 5 mm (3/16") 7 mm (9/32") (42' 8") **Multihull Nets or Trampolines** <u>3.15</u> 3.15.1 General Mu0,1,2,3,4 The words "net" and "trampoline" are interchangeable. A net shall be: Mu0,1,2,3,4 essentially horizontal, a)

Categories		A boat shall be/have:		
Mu0,1,2,3,4		b) made from durable woven webbing, water permeable fabric, or mesh with openings not larger than 5 cm (2") in any dimension. Attachment points shall be planned to		
		avoid chafe. The junction between a net and a boat shall present no risk of foot		
M-0 1 2 2 4		trapping,		
Mu0,1,2,3,4		c) solidly fixed at regular intervals on transverse and longitudinal support lines and shall be fine stitched to a bolt rope, and		
Mu0,1,2,3,4		d) able to carry the full weight of the crew either in normal working conditions at sea or in case of capsize when the boat is inverted.		
	3.15.2			
Mu0,1,2,3,4		A trimaran with double crossbeams shall have nets on each side covering:		
Mu0,1,2,3,4		a) the area formed by the crossbeams, central hull and outriggers,		
Mu0,1,2,3,4		b) the triangles formed by the aft end of the central pulpit, the mid-point of each forward crossbeam, and the intersection of the crossbeam and the central hull,		
Mu0,1,2,3,4		c) the triangles formed by the aftermost part of the cockpit or steering position (whichever is furthest aft), the mid-point of each after crossbeam, and the		
		intersection of the crossbeam and the central hull, except that:		
Mu0,1,2,3,4		d) <u>OSR</u> 3.15.2(c) is not a requirement when cockpit <u>coamings</u> and/or <u>lifelines</u> are present which comply with the minimum height requirements in <u>OSR</u> 3.14.		
	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			
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		
MoMu0,1,2	<u>3.18.1</u>	Permanently installed toilet.		
	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		<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>	Drinking Water Tanks		
MoMu1		b) <u>permanently installed</u> delivery pump and water tanks dividing the water supply into at least two compartments.		
	<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,		
Mo3Mu0,1,2		c) one <u>permanently installed</u> manual bilge pump,		
Mu0,1,2,3,4		e) provision to pump out all watertight compartments (except those filled with		
		impermeable buoyancy).		
**	<u>3.23.2</u>	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.		

Categories		A boa	it shall be/have:
**	3.23.3	Bilge	pumps shall not be connected to cockpit drains and shall not discharge into a
		-	ined cockpit.
**	3.23.4	Bilge	pumps shall be readily accessible for maintenance and for clearing out debris.
**	3.23.5	All re	movable bilge pump handles retained by a lanyard.
	<u>3.24</u>	Com	pass
MoMu0,1,2,3		Marin	e magnetic compass capable of being used as a steering compass:
**			<u>Permanently installed</u> marine magnetic steering compass, independent of any power supply, correctly adjusted with deviation card,
MoMu0,1,2,3			a second compass which may be hand-held and/or electronic.
	3.25	Haly	
**	3.25.1	-	nimum of two halyards, each capable of hoisting a sail, on each mast.
MoMu0,1,2,3	3.25.2		alyard shall be locked, lashed, or otherwise secured to the mast in a way that requires
			son to go aloft to lower a sail in a controlled manner, except for a headsail in use with
		a furl	ing device.
	3.27	Navi	gation Lights
**	<u>3.27.1</u>	That	conform to the International Regulations for Preventing Collisions at Sea (Part C and
		Techr	nical Annex I) and shall be exhibited as required by those regulations.
**	3.27.2	Moun boat.	ted above sheerline and so that they will not be masked by sails or the heeling of the
MoMu0,1,2,3	<u>3.27.3</u>	Reser	ve lights having the same specifications as above, and that can be powered
		indep	endently.
**	<u>3.27.4</u>	-	e bulbs (not required for LED).
	3.28	-	nes, Generators, Fuel
	<u>3.28.1</u>	-	ulsion Engines
**		-	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		-	an engine which provides a minimum speed in knots of (1.8 x $\sqrt{L_{WL}}$ in metres) or $(\sqrt{L_{WL}}$ in feet),
Mu1,2,3			inboard engine, however, if less than 12.0 m (39'-4") $\underline{L}$ either an inboard engine, or
			an outboard engine together with <u>permanently installed</u> power supply systems,
**		-	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,
**			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
	2 20 2		control system.
**	3.28.2		
			optional generator separate from the propulsion engine is carried, it shall be installed cordance with the manufacturer's guidelines.
	2 20 2		id Fuel Systems
MoMu0,1,2,3	<u>J.20.J</u>	-	all fuel tanks for storage of liquid fuels shall be rigid (but may have <u>permanently</u>
1101100,1,2,5		-	installed flexible linings) and shall have a shutoff valve,
MoMu0,1,2,3		-	at the start a boat with a combustion engine shall carry sufficient fuel to meet
1101100717270		-	charging requirements for the duration of the race and to motor at the above
			minimum speed for at least 5 hours.
	3.28.4		ery Systems
**			batteries installed after 2011 shall be of the sealed type from which liquid electrolyte
		-	cannot escape,
**			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,

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Categories		A boat shall be/have:
	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 <u>OSR</u> 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	3.29.6	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,
MoMu0,1,2		d) a masthead antenna not less than 38 cm (15") in length 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 DSC position report with another DSC
		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
MoMu0,1,2,3		b) has a dedicated AIS antenna not less than 38 cm $(15'')$ in length mounted with its
		base not less than 3 m (10') above the <b>waterline</b> and co-axial feeder cable with not
		more than 40% power loss.
MoMu1	3.29.9	A hand-held satellite telephone for each grab bag, watertight or with waterproof cover and
		internal battery. Stow in the grab bag (see <u>OSR</u> 4.21) when not in use.

Catagorias		A boat shall have:	
Categories	4.01	Sail Letters & Numbers	
**	4.01		
	<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	
Mo1Mu1,2	<u>4.02.2</u>	A 1 m <sup>2</sup> (11 ft <sup>2</sup> ) solid area of highly visible pink, orange or yellow capable of being	
		displayed on the coachroof and/or deck.	
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.	
	4.04	Jackstays and Clipping Points	
MoMu0,1,2,3	4.04.1	Permanently Installed fittings for jackstay ends and clipping points.	
MoMu0,1,2,3	<u>4.04.2</u>	Jackstays which shall:	
MoMu0,1,2,3		a) be independent on each side of the deck,	
MoMu0,1,2,3		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,	
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 HMPE	
		rope.	
MoMu0,1,2,3	4.04.3	Clipping points which shall:	
MoMu0,1,2,3		a) be adjacent to stations such as the helm, sheet winches and masts, where	
1101100/1/2/2/0		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		<ul> <li>c) enable two-thirds of the crew to be simultaneously clipped on without depending on</li> </ul>	
1101100,1,2,5		jackstays,	
Mu0,1,2,3		d) on a trimaran with a rudder on the outrigger, permit a <u>crewmember</u> to repair the	
Mu0,1,2,5		steering mechanism whilst attached to a clipping point.	
	4.05	Fire Fighting Equipment	
**			
	<u>4.05.1</u>	A fire blanket adjacent to every cooking device.	
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	
	4.06	boat.	
MaMut 2 2	4.06	Anchors	
MoMu1,2,3	<u>4.06.1</u>	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') $\underline{L}$ there shall be 1 anchor meeting the same criteria.	
	<u>4.07</u>	Flashlights and Searchlights	
Mo0,1,2,3		Watertight lights (minimum IP67 rated) with spare batteries and bulbs as follows, or a	
Mu**		watertight (minimum IP67 rated) rechargeable LED torch, of at least 400 Lumens	
MoMu0,1,2,3		a) a searchlight, suitable for searching for a person overboard at night and for collision	
		avoidance,	
Mo0,1,2,3 Mu**		b) stowed in each grab bag (see <u>OSR 4.21)</u> , a flashlight in addition to <u>OSR</u> 4.07 a).	
Mo0,1,2,3 Mu**		c) the flashlight in $\underline{OSR}$ 4.07 b) shall be stowed in the grab bag (see $\underline{OSR}$ 4.21).	
	<u>4.08</u>	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 crewmembers.	
	4.09	Foghorn	
**		A foghorn.	
	4.10	Radar Reflector	
**	4.10.1	A passive radar reflector with:	
		•	

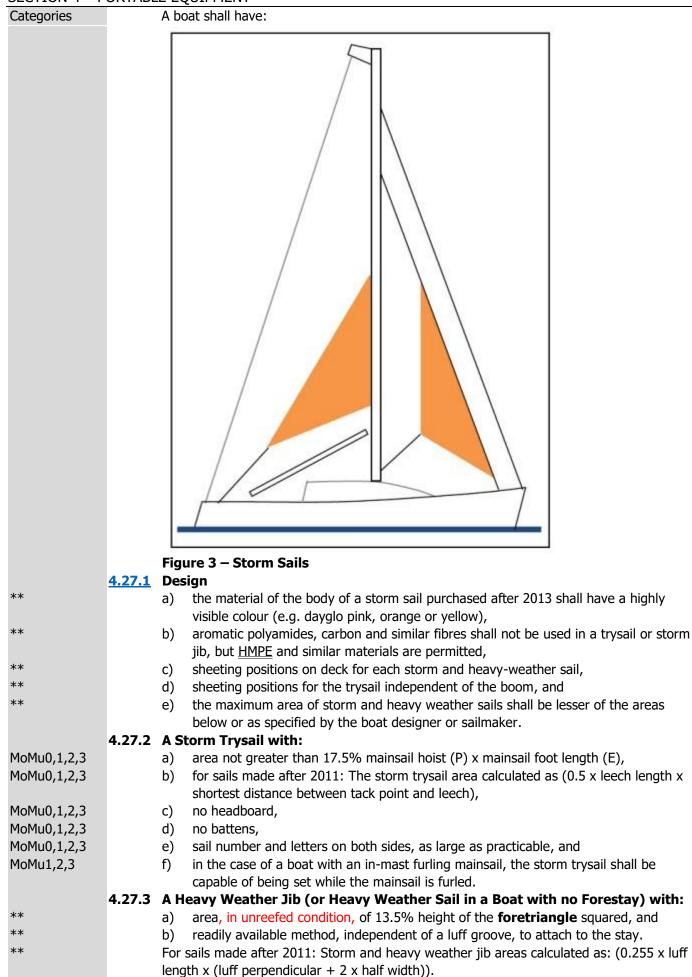
SECTION 4 - P	ORTABL	LE EQUIPMENT
Categories		A boat shall have:
**		a) octahedral circular plates of minimum diameter 30 cm (12"),
**		b) octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or
**		c) a non-octahedral reflector with a documented root mean square minimum Radar
		Cross Section (RCS) area of 2 m <sup>2</sup> (22 ft <sup>2</sup> ) from 0–360° of azimuth and $\pm 20^{\circ}$ of heel.
	4.11	Navigation Equipment
MoMu0,1,2,3	<u>4.11.1</u>	Navigational charts (not solely electronic), light list 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		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	<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
ጥ ጥ		The boat's name on miscellaneous buoyant equipment, such as lifejackets, cushions,
	4.10	lifebuoys, recovery slings, grab bags, etc.
**	<u>4.18</u>	Retro-Reflective Material
ጥጥ	4 10	Marine grade retro-reflective material on lifebuoys, recovery slings, liferafts and lifejackets. <b>EPIRBs</b>
MoMul 2	4.19	A water and manually activated 406 MHz <u>EPIRB</u> .
MoMu1,2 MoMu0,1,2	<u>4.19.2</u> 4.19.3	A 406 MHz EPIRB registered after 2015 shall include an internal GPS.
MoMu0,1,2	4.19.3	A 400 Min <u>Crisc</u> registered after 2013 shall include an internal <u>Gris</u> . All <u>EPIRBs</u> registered with the appropriate authority associated with the country code in the
1101100,1,2	1.1.5.1	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	
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 LSA Code 1997 Chapter IV or later version,
MoMu1,2		ii ISO 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.
	<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,
MoMu1		b) an <u>ISO</u> 9650 liferaft shall contain as a minimum Pack 1 (greater 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,

SECTION 4 - F	· ·	
Categories		t shall have:
MoMu1,2	i	iv whistle,
MoMu1	۱	v 2 waterproof torches with 6 h duration, and
MoMu1		vi 2 spare waterproof torches or 2 spare batteries and bulbs,
MoMu1,2		vii signalling mirror,
MoMu1,2	١	viii 6 anti-seasickness pills per person, *
MoMu1,2	i	ix seasickness bag per person, each with a simple, effective, closure system, *
MoMu1	2	x 6 red hand flares in accordance with <u>LSA</u> Code Chapter III, 3.2. 3 may be stowed in the grab bag,
MoMu1,2	2	<ul> <li>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>
MoMu1,2	)	<li>kit to repair leaks in most inflatable compartments, operable in wet conditions and during violent motion,</li>
MoMu1,2		<ul> <li>kiii hand operable air pump, capable of and ready for immediate use to inflate most compartments – Loose parts captive to the pump,</li> </ul>
MoMu1		xiv First-Aid Kit including at least 2 tubes of sunscreen. All dressings shall be capable of being effectively used in wet conditions. The first aid kit shall be clearly marked and shall be re-sealable,
MoMu1		xv 2 thermal protective aids in accordance with <u>LSA</u> Code Chapter III, 2.5, *
MoMu1		xvi 500 mL container of drinking water per person,
MoMu1		xvii 2 additional 500 mL container of drinking water per person, or desalinator, $st$
MoMu1		xviii 10 000 kJ food per person, *
MoMu1,2		y be packed in grab bag instead of liferaft.
		aft Packing and Stowage
MoMu0,1,2	a) I	Each liferaft shall be packed either in:
MoMu0,1,2	i	<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	i	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		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) <sup>–</sup>	The end of each liferaft painter should be <u>securely fastened</u> to the boat.
MoMu0,1,2		Each raft shall be capable of being moved to the <u>lifelines</u> or launched within 15 seconds.
MoMu1,2	(	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.
		aft Servicing
MoMu0,1,2		A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals:
MoMu0,1,2	i	i <u>SOLAS</u> liferafts annually,
MoMu0,1,2		ii <u>ISO</u> 9650 canister packed liferafts every 3 years,
MoMu0,1,2	i	<li><u>ISO</u> 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually,</li>
MoMu0,1,2	i	iv <u>ISAF</u> liferafts annually,
MoMu0,1,2		v <u>ORC</u> liferafts annually.
MoMu0,1,2		Servicing certificates (original or a copy) on board. Bags
Mo0,1,2,3	4.21.1 A gral	b bag shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of highly visible colour
Mu**	and sl	dayglo yellow or orange) on the outside, shall be marked with the name of the boat, hall have a lanyard and clip. If a grab bag has to accompany a specific life raft, it shall early marked with the identity of its corresponding raft.
Mo <mark>1,2</mark> Mu <mark>1,2</mark>	4.21.2 A gral	b bag for each liferaft, readily accessible whether or not the boat is inverted.

#### SECTION 4 PORTARI E FOLITOMENIT

SECTION 4 - P	URTADL	E EQUIPMENT	
Categories		A boat shall have:	
	4.22	Crew Overboard Identification and Recovery	
	<u>4.22.1</u>	Locator Beacons	
MoMu0,1,2		a) an <u>AIS</u> personal crew overboard beacon for each <u>crewmember</u> ,	
MoMu0,1,2		Where possible every <u>PLB</u> shall be registered with the appropriate authority associated with	
		the country code in the 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> .	
	<u>4.22.2</u>	GPS Crew Overboard Position	
Mo1,2,3		a) For boats with only two <u>crewmembers</u> , a GPS capable of recording a crew overboard	
Mu1,2,3		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.	
	<u>4.22.3</u>		
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 for	
		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 capable 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.	
	<u>4.22.4</u>	-	
**		A heaving line, no less than 6 mm (1/4") diameter, 15–25 m (50–75') long, readily	
		accessible to cockpit.	
	<u>4.22.5</u>	, ,	
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		<ul> <li>b) buoyancy section (horseshoe) with no less than 90 N (20#) buoyancy,</li> <li>c) minimum strength capable to bait a crowmember aboard</li> </ul>	
MoMu0,1,2,3	4 22	c) minimum strength capable to hoist a <u>crewmember</u> aboard.	
**	<u>4.23</u>	<b>Pyrotechnic and Light Signals</b> Pyrotechnic signals shall be provided conforming to <u>LSA</u> 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 LSA III 3.2.	
1101100,1,2,3	4.24	Spare Number	
	4.25	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 <u>OSR</u> 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 & Heavy Weather Sail Specifications	
		Where required by OSP 4.26, the specifications of heavy weather sails shall follow:	

Where required by <u>OSR</u> 4.26, the specifications of heavy weather sails shall follow:



Categories		A boat shall have:
	4.27.4	A Storm Jib with:
MoMu0,1,2		a) area of 5% (height of the <b>foretriangle</b> ) squared,
MoMu0,1,2		<li>b) maximum luff length 65% of height of the <b>foretriangle</b>, and</li>
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)).

# **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>
MoMu0,1,2		<ul> <li>have an integral safety harness in compliance with <u>OSR</u> 5.02</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		• an integral safety harness in compliance with OSR 5.02
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	<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.
MoMu0,1,2	<u>5.01.3</u>	A boat shall carry at least one spare lifejacket as required in $\underline{OSR}$ 5.01.1, (a spare $\underline{PLB}$
		described in <u>OSR</u> 5.01.1 e) is not required),
**	<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.
MoMu0,1,2,3	<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 tether which has been overloaded shall be replaced.

# **SECTION 6 – TRAINING**

<ul> <li>MoMu1,2</li> <li>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.</li> <li>MoMu0,1,2</li> <li>6.01.4 Except as otherwise provided in the Notice of Race, an in-date certificate gained at a W</li> </ul>	/orld ent el			
Training Topics.MoMu0,1,26.01.4Except as otherwise provided in the Notice of Race, an in-date certificate gained at a W	ent el			
MoMu0,1,2 6.01.4 Except as otherwise provided in the Notice of Race, an in-date certificate gained at a W	ent el			
	ent el			
	el			
Sailing approved Offshore Personal Survival Training course shall be accepted by an eve				
Organising Authority as evidence of compliance with <u>OSR</u> 6.01. See Appendix G – Mode	ted			
Training Course, for further details.	ted			
Mo0,1,2 6.01.5 A refresher course may be taken to renew a certificate if the refresher course is comple				
	ithin 2 years of the expiration of the individual's most recent Offshore Personal Survival			
Course certificate.				
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				
	Marine Weather			
	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	-			
	Pyrotechnics and Signalling Gear, theory and practical			
MoMu0,1,2,3 6.02.14 Emergency Communications, theory and practical	Liferafts and Abandon Ship, theory and practical			
	pare Number			
6.04 Routine Training On-Board				
** At least annually the crews shall practice the drills for:				
<ul> <li>** a) crew-overboard recovery, and</li> </ul>				
** b) abandonment of vessel.				
6.05 Medical Training				
MoMu1 <u>6.05.2</u> At least two <u>crewmembers</u> shall have a valid first aid certificate completed within the last	st			
five years meeting:	00			
MoMu0,1,2 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-offsho	ore-			
safety/offshore-safety/osr-recognised-first-aid-gualifications/ of MNA recognised				
courses, or				
MoMu0,1,2 b) <u>STCW</u> First Aid Training complying with A-VI/1-3 - Elementary First Aid or higher				
STCW level.				

# 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 1 Multihulls

### JANUARY 2024 - DECEMBER 2025

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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 2

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

	Inspector only		
	Person in Charge initials here		
	Lay out on Chart Table or Other Surface		
<u>4.11.1</u>	Charts (not solely electronic), plotting equipment		
<u>4.19.4</u>	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		
<u>6.05.2</u>	Elementary First Aid, or equivalent, certificate for 2 crew		
	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>4.22.1</u>	AIS personal crew overboard beacon for each crewmember	
4.22.1	Every (optional) PLB on board registered with rescue authority	
<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>5.01.3</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	
<u>3.29.1</u>	Watertight handheld VHF radio transceiver stowed in each grab bag	
<u>3.29.9</u>	Watertight handheld satellite telephones stowed in 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>3.18.1</u>	Toilet, permanently installed	
<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>	Water delivery pump and tanks divided into at least 2 compartments	

<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	
<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>4.19.2</u>	406 MHz EPIRB, with internal GPS	
<u>4.22.2</u>	For double handed, GPS to track crew overboard from on deck	
4.22.2	GPS with crew overboard locating feature (MOB button)	
<u>4.22.3</u>	Lifebuoy with self-igniting light, whistle and drogue	
4.22.3	Lifebuoy with self-igniting light, whistle, drogue and, pole and flag	
<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>4.02.2</u>	1 m <sup>2</sup> fluorescent pink, orange, or yellow showing on deck	
<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 1 (greater 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	

- 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
- 4.10.1 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
- <u>4.26.1</u> Either a storm trysail or reefing to reduce mainsail luff by 50%
- 4.26.2 Heavy weather jib, attachable independent of luff groove
- <u>4.26.3</u> Storm jib, attachable independent of luff groove (permanent)
- 4.27.1 Sheeting positions for each heavy/storm sail
  - General
- 2.04 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
- 3.05.1 Transverse watertight bulkheads 4 m (13'-3") in non-accommodation hulls
- <u>3.07.5</u> Handholds and clipping points on underside of boat
- 3.08.1 Forward hatches open outward only
- 3.08.2 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
- 3.09 Cockpit is strong, watertight and meets OSR size and drainage
- 3.14 Double lifelines & pulpits, surround entire deck, 600 mm (24") high
- 3.15 Nets (trampolines) meet OSR
- Emergency drinking water 2 L (0.5 US Gal) per person, in dedicated, sealed 3.21.3 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 pump
- 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
- 3.25 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	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>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	