World Sailing Offshore Special Regulations

Extract for Category 2 Monohulls

JANUARY 2024 - DECEMBER 2025

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

The inspection card is attached as Appendix F below.

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

Language & Abbreviations Used

Mo - Monohulls

Mu - Multihulls

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

RED TYPE indicates a significant change in 2024.

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

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

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

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

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: https://www.sailing.org/inside-world-sailing/rules-regulations/constitution-regulations/) 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: technical@sailing.org

SECTION 1 – FUNDAMENTAL AND DEFINITIONS

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

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

Categories

Llatab	The tarms hatch includes the autim batch accountly including the lides					
Hatch	The term hatch includes the entire hatch assembly including the lid or cover as part of that assembly					
HMPE	High Modulus Polyethylene (Dyneema®/Spectra® or equivalent)					
IBRD	International Beacon Registration Database					
IMO	International Maritime Organization					
ISAF	International Sailing Federation – (now World Sailing)					
ISO	International Standard Organization or International Organization for Standardization					
Jackstay	A <u>securely fastened</u> webbing or rope which permits a <u>crewmember</u> to move from one part of the boat to another without having to unclip a safety harness <u>tether</u>					
L _H	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 <u>ISAF</u>					

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

SECTION 2 – APPLICATION & GENERAL REQUIREMENTS

		<u> </u>				
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.				
	2.01.3	Category 2				
MoMu2		Races of extended duration along or not far removed from shorelines or in large,				
		unprotected bays or lakes, where a high degree of self-sufficiency is required of the boats.				
	2.02	Incident Reporting				
**		The <i>organising authority</i> of a race will establish whether any incidents occurred, which if reported would likely be relevant to evolving the Offshore Special Regulations, the plan review process, or in increasing safety. The <i>organising authority</i> will follow any guidelines issued by World Sailing concerning incident reporting.				
	2.03	Inspection				
**		A boat may be inspected at any time. If she fails to comply with the <u>OSR</u> her entry may be				
		rejected, or she will be subject to protest.				
	2.04	General Requirements				
**	2.04.1	All equipment required by <u>OSR</u> shall:				
**		a) function properly,				
**		b) be regularly checked, cleaned and serviced,				
**		c) if it has an expiry date, it will not have exceeded its expiry date whilst racing,				
**		d) when not in use be stowed in conditions in which deterioration is minimised,				
**		e) be readily accessible, and				
**		f) be of a type, size and capacity suitable and adequate for the intended use and size of the boat.				
**	2.04.2	Heavy items shall be <u>permanently installed</u> or <u>securely fastened</u> .				

Categories	· ·	A boat shall be/have:
Categories	3.01	Strength of Build and Rig
**	3.01.1	Properly rigged, fully seaworthy and shall meet the <u>OSR</u> .
**	3.01.1	Equipped with shrouds and at least one forestay that shall remain connected to the mast
	3.01.2	and the boat while racing (not applicable to boats with free-standing masts).
**	3.01.3	The forestay referenced above shall be sized and connected in a way that ensures it is
	3.01.3	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.
	3.02.1	centreboard or daggerboard trunks and the like shall not open into the interior of a hull
M-0 1 2	2 02 2	except via a watertight maintenance <u>hatch</u> with the opening entirely above the waterline .
Mo0,1,2	3.02.2	Structural Inspection – Consult the owner's manual for any instructions for keel bolt
		checking and re-tightening. The following inspection to be conducted by a qualified person
		externally with the boat out of the water. Check that there are no visible stress cracks
		particularly around the keel, hull/keel attachment, hull appendages and other stress points,
		inside the hull, backing plates, bolting arrangements and keel floors. (See Appendix L –
Ma0 1 2	2 02 2	Model Keel and Rudder Inspection Procedure).
Mo0,1,2	3.02.3	Evidence of a structural inspection in accordance with 3.02.2 within 24 months before the
Ma0 1 2 2	3.02.5	start of the race or after a grounding whichever is the later.
Mo0,1,2,3	3.02.3	Inspection after Grounding – an appropriately qualified person shall conduct an internal and external inspection after each unintentional grounding.
	3.03	Hull Construction Standards (Scantlings)
Mo0,1,2	3.03.1	A monohull with a series date after 2009
Mo0,1,2	5.05.1	a) of less than 24 m (78'-9") L _H shall have:
Mo0,1,2		i been designed, built and maintained in accordance with the requirements of <u>ISO</u>
		12215 Category A, and
Mo0,1,2		ii a World Sailing/ISAF building plan review certificate issued from an organisation
		recognised by World Sailing. Plan review certificates can be found at World Sailing.
Mo0,1,2		b) of 24 m (78'-9") LH and greater shall have been designed, built and maintained in
		accordance with the requirements of a Classification Society recognised by World
		Sailing
Mo0,1,2		c) shall have a builder's declaration signed and dated by the builder to confirm the boat
		is built in accordance with the reviewed plans. In cases when a builder no longer
		exists, an organising authority or class rules may accept a signed statement by a
		naval architect or other person familiar with the requirements of above in lieu of the
		builder's declaration, and
Mo0,1,2		d) shall have an additional World Sailing/ <u>ISAF</u> certificate of building plan review in
		accordance with a) or b), and c) above for all significant repairs or modifications to
		the hull, deck, coachroof or appendages .
MoMu0,1,2	3.03.2	A monohull with series date between 1987 and 2010, and all multihulls, shall have
		been designed, built, maintained, modified or repaired in accordance with the requirements
		of:
Mo0,1,2		a) <u>OSR</u> 3.03.1, or
Mo0,1,2		b) the <u>ABS</u> Guide for Building and Classing Offshore Yachts and have on board either an
		ABS certificate of plan approval, or written statements signed by the designer and
		builder confirming that they have respectively designed and built the boat in
MaM. 0 1 2		accordance with the <u>ABS</u> Guide, or
MoMu0,1,2		c) the EC Recreational Craft Directive for Category A having obtained the CE mark, 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

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Categories	A boat shall be/have:							
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, dec	ck, c	coac	hroof,	keel o	r
			appendages, on board, except					
MoMu0,1,2		f)	that an organising authority or class rules may accept, v	vhei	n th	at desc	cribed	in a), b),
			c), d) or e) above is not available, the signed statement	by	a na	aval ar	chitect	or other
			person familiar with the standards listed above that the	boa	at fu	Ifils the	ese	
			requirements.					
	3.04	Stab	pility – Monohulls					
Mo0,1,2	3.04.1	a)	Able to demonstrate compliance with ISO 12217-2* des	ign	cate	egory A	or hig	jher,
		,	either by EC Recreational Craft Directive certification have	ving	ob	tained	the CE	mark or
			the designer's declaration					
Mo0,1,2,3		* Th	e latest effective version of ISO 12217-2 should be used	unl	ess	the bo	at was	already
		desig	gned to a previous version.					
Mo0,1,2,3	3.04.2	Whe	re compliance in accordance with OSR 3.04.1 cannot be	den	nons	strated	, a boa	at shall be
		able	to demonstrate either:					
Mo0,1,2,3		Tabl	e 2 - STIX, AVS and m*A _{GZ} Requirements					
Mo0,1,2,3		a)	Race Category			0,1,2		3
			minimum <u>ISO</u> 12217-2 Stability Index (STIX)			32		23
			minimum ISO 12217-2 Angle of Vanishing Stability (AVS	5)	420	0.000		130-
					130	-0.002 ³	^{►m} ∥ 0.	005*m
			but AVS always >=			100°		95°
			a minimum righting energy m*A _{GZ} (where A _{GZ} is the	TÌ				
			positive area under the righting lever curve in the			72222	١.	-7000
			minimum operating condition, expressed in kg metre		1	72000	:	57000
			degrees from upright to AVS)					
Mo0,1,2,3		or						
Mo0,1,2,3		-	e 3 – ORC Stability Index or SSS Requirements					
Mo0,1,2,3		b)	Race Category	0)	1	2	3
			minimum Stability Index in <u>ORC</u> Rating System, or	12	20	115	110	103
			minimum IRC Safety and Stability Screening numeral			_	20	4.5
			(SSS) Base value		3)	28	15
			SSS may only be used if the series date is before				1995	2000
	2.06	-					1555	2000
M-0 1 2 2 4	3.06		s – Monohulls			L 4 -	L - II L -	
Mo0,1,2,3,4	3.06.1		e series date is after 1994 and \underline{L}_{H} is 8.5 m (28') and great the stress with the forest stress H_{H}		-			
			two exits. One exit shall be located forward of the forem	1050	. IIIc	ist exce	ept wii	ere
Ma0 1 2 2 4	2.06.2		tural features prevent its installation.		hall	ha.		
Mo0,1,2,3,4	3.06.2		st launched after 2013, the minimum clear hatch opening	JS S	IIdII	be.		
Mo0,1,2,3,4		a) b)	a circular <u>hatch</u> with diameter 450 mm (18"), or any other shape with minimum dimension of 380 mm (1	E "\	200	d minin	num ai	on of
Mo0,1,2,3,4		D)	·	.5)	anc	ווווווווו ג	iuiii ai	ea oi
Mo0 1 2 2 4			0.18 m ² (1.9 ft ²) (see figure 1).					
Mo0,1,2,3,4			380			$ \wedge $		
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		(V		10	
		- 1	(+) $((+)$ $((+)$		1	4	\	
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		Figu	re 1 – Measurements of Minimum Clear Opening					

Figure 1 – Measurements of Minimum Clear Opening

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Categories		A boat shall be/have:
	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
4 4	2.00.2	0.071 m ² (110 in ²).
**	3.08.2	A <u>hatch</u> , including a <u>hatch</u> over a locker shall be:
**		 a) permanently attached and capable of being firmly shut immediately and remaining firmly shut in a 180° capsize,
Mo0,1,2,3,4		b) above the water when the boat is heeled 90°.
Mo0,1,2,3,4		A boat may have a maximum of two <u>hatches</u> on each side of centerline that do not conform to the requirement in b), provided that the opening of each is less than 0.071 m ² (110 in ²).
**	3.08.3	<u>Hatches</u> not conforming with <u>OSR</u> 3.08.1 and <u>OSR</u> 3.08.2 shall be clearly labelled and used in accordance with the following instruction "NOT TO BE OPENED AT SEA".
**	3.08.4	Companionway 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:
**		i capable of being retained in position with the <u>hatch</u> open or shut,
**		ii secured to the boat (e.g. by lanyard) for the duration of the race, and iii permit exit in the event of inversion.
Mo0,1,2,3,4	3.08.5	If a monohull with cockpit(s) that is/are not <u>contained cockpit(s)</u> a boat shall have:
Mo0,1,2,3,4		a) a companionway sill that does not extend below the local sheerline, or
Mo0,1,2,3,4		b) a companionway in full compliance with <u>ISO</u> 11812 category A.
Mo0,1,2,3,4	3.08.6	If a monohull with <u>contained cockpit(s)</u> where the companionway extends below the local
		sheerline, a boat shall have panels capable of blocking the companionway up to the level of
	2.00	the local sheerline whilst giving access to the interior.
	3.09	Cockpits
4 4	3.09.1	General
**		a) cockpits shall self-drain quickly by gravity at all angles of heel and are permanently
**		incorporated as an integral part of the boat,
*		b) a cockpit sole shall be at least 2% <u>LwL</u> above the waterline (or in IMS boats with <u>first</u>
**		launch before 2003, at least 2% L above the waterline), and
	2 00 2	c) a bow, lateral, central, or stern well is a cockpit for the purposes of <u>OSR</u> 3.09. Cockpit Volume
**	3.09.2	The maximum combined volume below lowest <u>coamings</u> of all <u>contained cockpits</u> shall be:
MoMu2,3,4		b) series date before April 1992: 9% (Lw. x maximum beam x freeboard abreast the
1101142,5,1		cockpit),
**		c) series date after March 1992 as above for the appropriate category except that
		"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:
**		a) if less than 8.5 m (28') \underline{L}_{H} : 2 x 25 mm (1") diameter or equivalent,
**		b) if 8.5 m (28') \underline{L}_{H} or greater: 4 x 20 mm (3/4") diameter or equivalent.
	3.10	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.
	3.11	Sheet Winches
**		Sheet winches mounted in such a way that an operator is not required to be substantially
		below deck.
	<u>3.12</u>	Mast Step
**		The heel of a keel stepped mast <u>securely fastened</u> to the mast step or adjoining structure.

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A boat shall be/have:

3.14 Pulpits, Stanchions, Lifelines

3.14.1 General

The perimeter of the deck surrounded by system of <u>lifelines</u> and pulpits as follows:

- continuous <u>lifelines</u> fixed only at (or near) the bow and stern. However, a gate on
 each side of a boat is permitted. Except at its end fittings and at gates, the movement
 of a <u>lifeline</u> in a fore-and-aft direction shall not be constrained. Temporary sleeving
 shall not modify tension in the <u>lifeline</u>,
- o) 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"),
 - vertical opening: no greater than 380 mm (15") except that on a boat with a **series date** before 1993 where it shall be no greater than 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 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 **boat beam** 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"),
 - stanchions may be angled to not more than 10° from vertical at any point above 50 mm (2") from the deck.
- g) a bow pulpit may be open provided the opening between the pulpit and any part of the boat does not exceed 360 mm (14"),

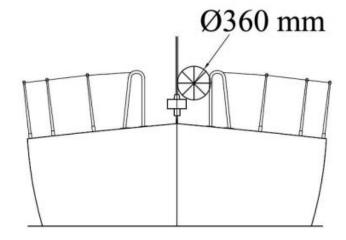


Figure 2 – Diagram Showing Pulpit Opening

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

SECTION 3 –	STRUCTURAL	FEATURES.	STABILITY.	. FIXED E	OUIPMENT
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Categories		A boat shall be					
Categories	2 1 4 2	•					
M-0 1 2 2	3.14.3	Lifeline Specifications					
Mo0,1,2,3 **			· · · · · · · · · · · · · · · · · · ·				
		•		•			
**		-		be uncoated and used wit			
		•		g may be fitted provided it	is regularly removed for		
		inspection	•				
**					<u>lines</u> provided the gap it closes		
		does not e	exceed 100 mm (4	1"). This lanyard shall be re	placed annually,		
**		f) All compo	nents of the <u>lifelin</u>	<u>ie</u> enclosure system shall h	ave a breaking strength no less		
		than the <u>li</u>	<u>feline</u> ,				
**		Table 4 – Life	line Diameter R	equirements			
		<u>L</u> u	Wire Min. lifeline	HMPE rope (Single braid)	HMPE Core (Braid on braid)		
			diameter	min. <u>lifeline</u> diameter	min. <u>lifeline</u> outside		
			diarricter	illin <u>incinic</u> didiffeet	diameter		
			a (4.60)	4 (= (0.0 f)			
		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")		
		over 13 m	5 mm (3/16")	5 mm (3/16")	7 mm (9/32")		
		(42' 8")	3 11111 (3/10)	5 11111 (5/10)	7 11111 (3/32)		
dede		,					
**	3.16	Spare					
	3.17	Toe Rail or Fo	•				
Mo0,1,2,3	3.17.1			_ ,	"), located at or no more than		
			•	meter of the deck from at l			
Mo0,1,2,3	3.17.2				ine of between 25–50 mm (1–		
		,	nitted in lieu of a t	toe rail			
	3.18	Toilet					
MoMu0,1,2	3.18.1	<u>Permanently installed</u> toilet.					
	3.19	Bunks					
MoMu1,2,3,4	3.19.1	Permanently installed bunks.					
	3.20	Cooking Facilities					
MoMu0,1,2,3		<u>Permanently installed</u> cooking stove, capable of being operated safely at sea, with fuel					
		shutoff control.	shutoff control.				
	3.21	Drinking Wat	er Tanks & Drin	king Water			
	3.21.1	_		_			
MoMu2,3		_	tly installed delive	ery pump and water tank(s)), or reusable container(s)		
,					er per person per day for the		
		•	tion of the voyage	•	the beautiful to the		
	3.21.3						
MoMu1,2,3			_	r person of drinking water	for emergency use in a		
		•		iner or container(s).	ior emergency acc in a		
	3.22	Hand Holds	ana scalca contai	mer or container(s).			
**	<u> </u>		holds fitted below	v deck			
	3.23	Bilge Pumps a		v deck.			
**	3.23.1			ith a lanyard and of at load	t 9 L (2.4 US Gal) capacity,		
	3.23.1			•			
Mo0,1,2		b) two <u>perma</u> from below		nanuai biige pumps, one op	perable from above, the other		
**	3.23.2				rable with all cockpit seats,		
		hatches and co	mpanionways shu	it and with <u>permanently ins</u>	stalled discharge pipe(s) of		
		sufficient capac	city.				
**	3.23.3	Bilge pumps sh	all not be connect	ed to cockpit drains and sh	nall not discharge into a		
		contained cock	<u>oit</u> .				
**	3.23.4	Bilge pumps sh	all be readily acce	essible for maintenance and	for clearing out debris.		
**	3.23.5		•	s retained by a lanyard.	-		
	_		- · ·				

	TROCT	JRAL FEATURES, STABILITY, FIXED EQUIPMENT
Categories		A boat shall be/have:
	3.24	Compass
MoMu0,1,2,3		Marine magnetic compass capable of being used as a steering compass:
**		a) <u>Permanently installed</u> marine magnetic steering compass, independent of any power
		supply, correctly adjusted with deviation card,
MoMu0,1,2,3		b) a second compass which may be hand-held and/or electronic.
	3.25	Halyards
**	3.25.1	A minimum of two halyards, each capable of hoisting a sail, on each mast.
MoMu0,1,2,3	3.25.2	No halyard shall be locked, lashed, or otherwise secured to the mast in a way that requires
		a person to go aloft to lower a sail in a controlled manner, except for a headsail in use with
		a furling device.
	3.27	Navigation Lights
**	3.27.1	That conform to the International Regulations for Preventing Collisions at Sea (Part C and
		Technical Annex I) and shall be exhibited as required by those regulations.
**	3.27.2	Mounted above sheerline and so that they will not be masked by sails or the heeling of the
		boat.
MoMu0,1,2,3	3.27.3	Reserve lights having the same specifications as above, and that can be powered
		independently.
**	3.27.4	Spare bulbs (not required for LED).
	3.28	Engines, Generators, Fuel
	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 $\sqrt{\underline{L}_{WL}}$ in metres) or
		$(\sqrt{\underline{L_{WL}}} \text{ in feet}),$
Mo0,1,2Mu0		c) inboard engine,
**		f) an inboard combustion engine shall have a <u>permanently installed</u> exhaust, cooling
4.4		system, fuel supply, fuel tank(s) and shall have adequate heavy weather protection,
**		g) an inboard electrical engine, when fitted, shall be provided with a <u>permanently</u>
		<u>installed</u> power supply, adequate heavy weather protection and have an engine
		control system.
**	3.28.2	Generator
ተ ተ		If an optional generator separate from the propulsion engine is carried, it shall be installed
	2 20 2	in accordance with the manufacturer's guidelines.
MaMuO 1 2 2	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>
MaMuO 1 2 2		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	·
**	<u> </u>	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
1 101 100,1,2,3		method for starting the engine and/or separate generator,
	3.29	Communications Equipment, GPS, Radar, AIS
Mo1,2,3	3.29.1	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).
**	3.29.4	A second radio receiver, which may be the handheld VHF in OSR 3.29.1 above, capable of
		receiving weather bulletins.
	-	

Categories		A boat shall be/have:			
MoMu0,1,2,3	3.29.5	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 GPS 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	3.29.7	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 <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.			

SECTION 4	4 — P(DRIABLE EQUIPMENT
Categories		A boat shall have:
	4.01	Sail Letters & Numbers
**	4.01.1	Identification on sails which complies with RRS 77 and RRS Appendix G.
MoMu0,1,2,3	4.01.2	An alternative means of displaying identification as required under RRS Appendix G for a
		mainsail, to be displayed when none of the numbered sails are set.
	4.03	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	4.04.2	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	110 113	a) be adjacent to stations such as the helm, sheet winches and masts, where
1101100,1,2,3		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
1 101 100/1/2/3		jackstays,
	4.05	Fire Fighting Equipment
**	4.05.1	A fire blanket adjacent to every cooking device.
MoMu1,2,3	4.05.2	2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the
1 101 101/2/3	110512	boat.
	4.06	Anchors
MoMu1,2,3	4.06.1	2 un-modified anchors that meet the anchor manufacturer's recommendation based on the
11011011,2,5	1.00.1	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') $L_{\rm H}$ there shall be 1 anchor meeting the same criteria.
	4.07	Flashlights and Searchlights
Mo0,1,2,3	1102	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
1 101 100/1/2/3		avoidance,
Mo0,1,2,3		b) stowed in each grab bag (see OSR 4.21), a flashlight in addition to OSR 4.07 a).
Mu**		b) Stowed in each grab bag (see <u>ook 1.21)</u> , a hashiight in addition to <u>ook</u> 1.07 a).
Mo0,1,2,3		c) the flashlight in <u>OSR</u> 4.07 b) shall be stowed in the grab bag (see <u>OSR 4.21</u>).
Mu**		the hashinghe in <u>osk</u> 1.07 b) shall be stowed in the grab bag (see <u>osk 1.21)</u> .
i id	4.08	First Aid Manual and First Aid Kit
**	4.00	A First Aid Manual and First Aid Kit. The contents and storage of the First Aid Kit shall
		reflect the likely conditions and duration of the passage, and the number of <u>crewmembers</u> .
	4.09	Foghorn
**	4.03	A foghorn.
	4.10	Radar Reflector
**	4.10.1	A passive radar reflector with:
**	4.10.1	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 ² (22 ft ²) from 0–360° of azimuth and ± 20 ° of heel.
	4.11	Navigation Equipment
MoMu0,1,2,3	4.11.1	Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment.
1.101.100,1,2,3	7.11.1	mangadorial charts (not solely electronic), high hist and chart plotting equipment.

<u> 3ECTION 4 - F</u>	OKTADI	LE EQUIPMENT
Categories		A boat shall have:
	4.12	Safety Equipment Location Chart
**		A safety equipment location diagram in durable waterproof material, clearly displayed in
		the main accommodation, marked with the location of principal items of safety equipment.
	4.13	Depth, Speed and Distance Instruments
MoMu0,1,2,3	4.13.1	A knotmeter or distance measuring instrument (log).
MoMu1,2,3,4	4.13.2	A depth sounder.
	4.14	Spare Number
	4.15	Emergency Steering
MoMu0,1,2,3	4.15.1	An emergency tiller capable of being fitted to the rudder stock except when:
MoMu0,1,2,3		a) the principal method of steering is by means of an unbreakable metal tiller,
MoMu0,1,2,3		b) there are two methods (e.g. tillers, wheels) of controlling a rudder, neither of which shares components with the other except for the rudder stock.
MoMu0,1,2,3	4.15.2	A proven method of emergency steering with the rudder disabled.
	4.16	Tools and Spare Parts
**	4.16.1	Tools and spare parts, suitable for the duration and nature of the passage.
**	4.16.2	An effective means to quickly disconnect or sever the standing rigging from the boat.
	4.17	Boat's Name
**		The boat's name on miscellaneous buoyant equipment, such as lifejackets, cushions,
		lifebuoys, recovery slings, grab bags, etc.
	4.18	Retro-Reflective Material
**		Marine grade retro-reflective material on lifebuoys, recovery slings, liferafts and lifejackets.
	4.19	EPIRBs
MoMu1,2	4.19.2	A water and manually activated 406 MHz <u>EPIRB</u> .
MoMu0,1,2	4.19.3	A 406 MHz EPIRB registered after 2015 shall include an internal GPS.
MoMu0,1,2	4.19.4	All EPIRBs 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> .
	4.20	Liferafts
	4.20.1	Liferaft Construction
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.
	4.20.2	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
		bag(s) which shall be in a readily accessible location:
MoMu1,2		i portable buoyant bailer easily operable by hand,
MoMu1,2		ii 2 sponges,
MoMu1,2		iii pair of buoyant paddles with handles (not mitts) tied into raft adjacent to an entrance,
MoMu1,2		iv whistle,
MoMu2		v waterproof torch with 6 h duration, and
MoMu2		vi spare waterproof torch or spare battery and bulb,
MoMu1,2		vii signalling mirror,
MoMu1,2		viii 6 anti-seasickness pills per person, *
MoMu1,2		ix seasickness bag per person, each with a simple, effective, closure system, *
	_	

<u>SECTION 4 – P</u>	OKTABL	LE EQUIPMENT
Categories		A boat shall have:
MoMu2		x 3 red hand flares in accordance with <u>LSA</u> Code Chapter III, 3.2,
MoMu1,2		xi 2 red parachute flares in accordance with LSA Code Chapter III, 3.1 – 1 may be
. 101 101/2		stowed in the grab bag,
MoMu1,2		
141014111,2		
M M 4 2		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.
	4.20.3	Liferaft Packing and Stowage
MoMu0,1,2		a) Each liferaft shall be packed either in:
MoMu0,1,2		i a rigid container securely stowed on the working deck, in the cockpit or in an
, ,		open space, or
MoMu0,1,2		ii a rigid container or valise securely stowed in a dedicated weather tight locker
101100/1/2		containing liferaft and abandon ship equipment only which is readily accessible
		and opens onto the cockpit or working deck, or transom.
MaMuO 1 2		·
MoMu0,1,2		b) On a monohull with <u>moveable ballast</u> or a multihull , 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		d) Each raft shall be capable of being moved to the <u>lifelines</u> or launched within 15
		seconds.
MoMu1,2		e) In a boat with series date 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	Liferaft Servicing
MoMu0,1,2		a) A liferaft shall be serviced at a manufacturer authorized service station at the
, _ , _ , _		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 <u>ISO</u> 9650 valise packed liferafts every 3 years except that hired liferafts shall be
		serviced annually,
MoMu0,1,2		iv <u>ISAF</u> liferafts annually,
MoMu0,1,2		v <u>ORC</u> liferafts annually.
MoMu0,1,2		b) Servicing certificates (original or a copy) on board.
	4.21	Grab Bags
Mo0,1,2,3	4.21.1	A grab bag shall have inherent flotation, at least 0.1 m ² (1 ft ²) area of highly visible colour
Mu**		(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.
MoMu1,2	4.21.2	A grab bag for each liferaft, readily accessible whether or not the boat is inverted.
,	4.22	Crew Overboard Identification and Recovery
	4.22.1	
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
140140,1,2		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>	
MoMu1,2,3		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.
MoMu1,2		b) a GPS capable of recording a crew overboard position within 10 seconds and
		monitoring that position.
	4.22.3	
MoMu0,1,2		b) a lifebuoy with a self-igniting light, a whistle, and a drogue,
/ /=		, , , , , , , , , , , , , , , , , , , ,

SECTION 4 - P	OKTABL	LE EQUIPMENT
Categories		A boat shall have:
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.
	4.22.4	Heaving Line
**		A heaving line, no less than 6 mm (1/4") diameter, 15–25 m (50–75') long, readily
		accessible to cockpit.
	<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 $\underline{L}_{\underline{H}}$ 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.
	<u>4.23</u>	Pyrotechnic and Light Signals
**		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
alasta		than 4 years:
**		a) 2 orange smoke <u>LSA</u> III 3.3,
MoMu0,1,2,3	4.24	b) 4 red hand flares <u>LSA</u> III 3.2.
	4.24	Spare Number
**	<u>4.25</u>	Cockpit Knife
71-71-		A strong, sharp knife, in a securely restrained sheath shall be readily accessible from the
	4.26	deck or a cockpit. Storm & Heavy Weather Sail Inventory
**	4.20	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
1401411,2	7.20.1	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 <u>OSR</u> 4.26, the specifications of heavy weather sails shall follow:

Categories

A boat shall have:

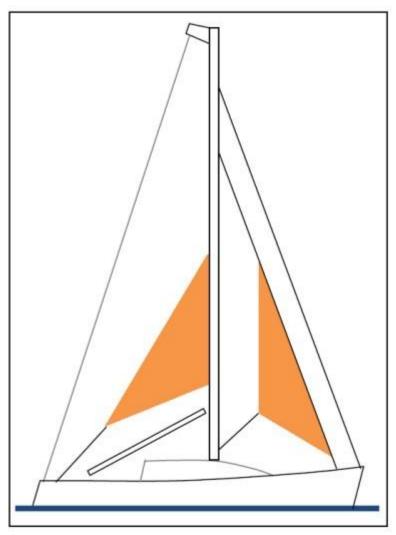


Figure 3 - Storm Sails

4.27.1 Design

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

4.27.2 A Storm Trysail with:

- a) area not greater than 17.5% mainsail hoist (P) x mainsail foot length (E),
- b) for sails made after 2011: The storm trysail area calculated as (0.5×1) leech length x shortest distance between tack point and leech),
- c) no headboard,
- d) no battens,
- e) sail number and letters on both sides, as large as practicable, and
- f) in the case of a boat with an in-mast furling mainsail, the storm trysail shall be capable of being set while the mainsail is furled.

4.27.3 A Heavy Weather Jib (or Heavy Weather Sail in a Boat with no Forestay) with:

- a) area, in unreefed condition, of 13.5% height of the foretriangle 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: (0.255×10^{-2}) length x (luff perpendicular + 2 x half width)).

Figure 3 – Storm

**

** **

**

MoMu0,1,2,3

MoMu0,1,2,3

MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3

MoMu1,2,3

k* k*

**

		<u> </u>
Categories		A boat shall have:
	4.27.4	A Storm Jib with:
MoMu0,1,2		a) area of 5% (height of the foretriangle) squared,
MoMu0,1,2		b) maximum luff length 65% of height of the foretriangle , and
MoMu0,1,2		c) permanently attached method, independent of a luff groove, to attach to the stay.
MoMu0,1,2		For sails made after 2011: Storm and heavy weather jib areas calculated as: (0.255 x luff
		length x (luff perpendicular $+ 2 x$ half width)).
	4.30	Emergency Pumps,
Mo0,1,2		either fixed or portable pump to remove ingress water from any compartment. This pump
		shall:
Mo0,1,2		a) have a minimum rated capacity of 200 l/min (3200 US gph),
Mo0,1,2		b) be operated by battery, main engine powered or a separate engine,
Mo0,1,2		c) if portable electric-powered, power cables to be terminated with alligator clips, and
Mo0,1,2		d) have sufficient hose to discharge directly overboard or into the cockpit.
Mo0,1,2		A combination of <u>permanently installed</u> and portable pumps may be combined to meet the
		above requirement.

SECTION 5 – PERSONAL EQUIPMENT

Categories		Each <u>crewmember</u> shall have:
eacego.ies	5.01	Lifejacket
**	5.01.1	A lifejacket which shall:
**		a) i if manufactured before 2012 comply with <u>ISO</u> 12402-3 (Level 150) or equivalent,
		including EN 396 or UL 1180 and:
**		• if inflatable have a gas inflation system
**		 have crotch/thigh straps (ride up prevention system)
MoMu0,1,2		 have an integral safety harness in compliance with <u>OSR</u> 5.02
**		ii if manufactured after 2011 comply with ISO 12402-3 (Level 150) and be fitted
		with a whistle, lifting loop, reflective material automatic/manual gas inflation
		system:
**		 crotch/thigh straps (ride up prevention system)
MoMu0,1,2		 an integral safety harness in compliance with <u>OSR</u> 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	5.01.2	A boat shall carry at least one gas inflatable lifejacket spare cylinder and, if appropriate,
		spare activation head for each type of lifejacket on board.
MoMu0,1,2	5.01.3	A boat shall carry at least one spare lifejacket as required in <u>OSR</u> 5.01.1, (a spare <u>PLB</u>
		described in <u>OSR</u> 5.01.1 e) is not required),
**	5.01.4	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	5.02.1	A harness that complies with <u>ISO</u> 12401 or equivalent.
MoMu0,1,2,3	5.02.2	A <u>tether</u> that shall:
MoMu0,1,2,3		a) comply with <u>ISO</u> 12401 or equivalent,
MoMu0,1,2,3		b) not exceed 2 m (6'-6") including the length of the hooks,
MoMu0,1,2,3		c) have self-closing hooks,
MoMu0,1,2,3		d) have overload indicator flag embedded in the stitching, and
MoMu0,1,2,3		e) be manufactured after 2000.
MoMu0,1,2,3	5.02.3	either:
MoMu0,1,2,3		a) a <u>tether</u> not exceeding 1 m (3'-3") including the length of the hooks, or
MoMu0,1,2,3	- 00 -	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

SECTION		
Categories	6.01	Training
MoMu1,2	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.
MoMu0,1,2	6.01.4	Except as otherwise provided in the Notice of Race, an in-date certificate gained at a World
		Sailing approved Offshore Personal Survival Training course shall be accepted by an event
		Organising Authority as evidence of compliance with <u>OSR</u> 6.01. See Appendix G – Model
		Training Course, for further details.
MoMu <mark>0,1,2</mark>	6.01.5	A refresher course may be taken to renew a certificate if the refresher course is completed
		within 2 years of the expiration of the individual's most recent Offshore Personal Survival
		Course certificate.
	6.02	Training Topics
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		Storm Sails
MoMu0,1,2,3		Damage Control
MoMu0,1,2,3		Search and Rescue Organisation
MoMu0,1,2,3		Pyrotechnics and Signalling Gear, theory and practical
MoMu0,1,2,3		Emergency Communications, theory and practical
MoMu0,1,2,3		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
4,-4,-	C 0F	b) abandonment of vessel.
MaMua	6.05	Medical Training
MoMu2	6.05.2	At least one <u>crewmember</u> shall be familiar with first aid procedures, hypothermia,
		drowning, cardio-pulmonary resuscitation and relevant communications systems, and in
		addition, one other <u>crewmember</u> shall have a valid first aid certificate completed within the last five years meeting:
MoMu0,1,2		
141014100,1,2		a) A certificate listed on the <u>WS</u> website <u>https://www.sailing.org/inside-world-sailing/activities-services/technical-offshore/technical-services/technical-and-offshore-</u>
		safety/offshore-safety/osr-recognised-first-aid-gualifications/ of MNA recognised
MoMu0,1,2		courses, or b) <u>STCW</u> First Aid Training complying with A-VI/1-3 - Elementary First Aid or higher
1-101-100,1,2		STCW level.
		<u>516W</u> [CVC].

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

Appendix F begins on the next page.

APPENDICES TO THE OFFSHORE SPECIAL REGULATIONS

APPENDIX A – Moveable and Variable Ballast

APPENDIX B - For Inshore Racing

APPENDIX C – For Inshore Dinghy Racing

APPENDIX D - A Guide to ISO and other Standards

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

APPENDIX F – Standard Inspection Card

APPENDIX G – Model Training Course

APPENDIX H - Model First Aid Training Course

APPENDIX J – Hypothermia

APPENDIX K – Drogues and Sea Anchors

APPENDIX L – Model Keel and Rudder Inspection Procedure

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

World Sailing Appendix F

Inspection Card

For Category 2 Monohulls JANUARY 2024 – DECEMBER 2025

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Instructions

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

Boat			
Sail Num	ber		
No of pe	rsons on board		
	er of Liability The inspection is carried out as a courtesy. An inspector cannot limit or reited responsibility of the owner and the person in charge.	educe the co	mplete
•	declare that I am the <i>Person in Charge</i> , that wherever I initial an item on this checklist it offshore Special Regulations (OSR), that I have read and understand the OSRs and in μ		
Signed_	Date		
Printed N	Name		
Note: PUF	RPLE text indicates additional requirements to category 3		
Preceder precedence	nce: The checklist below is in point form. In all cases the full text in the Offshore Special	Regulations	takes
precedent		Inspector onl	ly┐
	Person in Charge initial	<u>.</u>	
	Lay out on Chart Table or Other Surface		
3.02.2	Keel and rudder inspection certificate		
3.03	Certificate that boat meets accepted construction standards		
3.04.1	Proof that boat meets ISO 12217-2 category A or equivalent stability		
<u>4.11.1</u>	Charts (not solely electronic), plotting equipment		
4.19.4	Proof of EPIRB registration with rescue authority		
4.20.4	Servicing certificate for each liferaft		
6.01.2	WS approved survival training certificate for 30% of the crew (minimum 2)		
<u>6.04</u>	Proof that crew-overboard recovery has been practiced within past year		
6.04	Proof that abandonment of vessel has been practiced within past year		
6.05.2	Elementary 1st Aid, or equivalent, certificate for 1 crew + familiarity for 2nd		

	Lay out on Bunk(s)	
3.29.4	2nd radio capable of receiving weather, could be the handheld VHF	
3.29.5	Emergency antenna for each type of installed radio transceiver	
<u>4.08</u>	First Aid Manual and First Aid Kit	
4.09	Foghorn	
<u>4.16.1</u>	Tools, spare parts, method to disconnect/sever standing rigging	
4.22.1	AIS personal crew overboard beacon for each crewmember	
4.22.1	Every (optional) PLB on board registered with rescue authority	
4.23	Flares, 4 red hand-held and 2 orange smoke, LSA III	
<u>5.01</u>	Lifejacket c/w lights, whistle etc., 1 for each crew, marked with name	
<u>5.01.1</u>	Each lifejacket has crotch or thigh straps & harness	
5.01.1	Each lifejacket has a sprayhood	
<u>5.01.2</u>	Spare cylinder and activation head for each type on board	
<u>5.01.3</u>	Spare lifejacket	
<u>5.01.4</u>	Each lifejacket inspected by the person in charge within past 12 months	
<u>5.02.1</u>	Safety harness for each crewmember	
<u>5.02.2</u>	2 m (6'-6") tether, with coloured overload flag, for each crewmember	
<u>5.02.3</u>	Mid-tether hook on 2 m tether, or 1 m (3'-3") tether for each crewmember	
	Grab Bag	
3.29.1	Watertight handheld VHF radio transceiver stowed in each grab bag	
4.07	2nd watertight (IP67) flashlight with spare batteries and bulbs	
<u>4.21.1</u>	Grab bag for each raft, with inherent flotation and 0.1 m² (1 ft²) bright colour	
	Below Deck Inspection	
3.06	2 exits, at least 1 forward of the foremost mast	
3.08.3	Portlights that open inward labelled "NOT TO BE OPENED AT SEA"	
3.10	Sea cocks or valves on through-hull openings below waterline	
3.12	Heel of keel-stepped mast is securely fastened to structure	
3.18.1	Toilet, permanently installed	
3.19.1	Bunks, permanently installed	
3.20	Cooking stove, permanently installed, with fuel shut-off	
3.21.1	Sufficient drinking water (in water tank or reusable containers)	

3.22	Hand holds below deck	
	Spare bulbs for navigation lights (not required for LED)	 П
3.27.4	,	
3.28.4	Batteries are of sealed type	
3.28.4	Separate engine starting battery or hand-starting device	
3.29.6	25W DSC enabled VHF w/ masthead antenna & programmed MMSI	
3.29.7	AIS Transponder w/ shared masthead or raised dedicated antenna	
4.03	Tapered soft wood plug at each through-hull opening	
4.05.1	Fire blanket adjacent to every cooking device	
4.05.2	2 fire extinguishers, 2 kg each in different parts of the boat	
<u>4.12</u>	Safety equipment location chart	
	At Helm or Ready for Rapid Deployment	
4.19.2	406 MHz EPIRB, with internal GPS	
4.22.2	For double handed, GPS to track crew overboard from on deck	
4.22.2	GPS with crew overboard locating feature (MOB button)	
4.22.3	Lifebuoy with self-igniting light, whistle and drogue	
4.22.3	Lifebuoy with self-igniting light, whistle, drogue and, pole and flag	
4.22.4	Heaving line, pref. 'Throwing sock' type, 6mm (1/4") 15–25m (50–75')	
4.22.5	Recovery Sling (Lifesling® or equivalent)	
<u>4.25</u>	Strong, sharp knife, sheathed and securely restrained	
	On Deck, Where Stowed or Ready for Deployment	
3.08.4	Hatch blocking devices (panels) attached and can be secured in place	
4.06.1	2 suitably sized anchors and rode ready for immediate use	
4.07	Watertight (IP67) searchlight to find person overboard or collision avoidance	
<u>4.20.1</u>	Liferaft(s) capable of carrying the whole crew	
4.20.2	Liferaft SOLAS Pack A or ISO Pack 2 (less than 24 hours)	
4.20.3	Liferaft(s) stowed in rigid container, or valise in dedicated locker	
	Rigged/Fitted to Demonstrate Use	
3.27.1	Navigation lights, above sheerline and not obscured when sailing	
<u>3.27.3</u>	Reserve navigation lights, can be powered separately	
4.01.2	Alternate method for displaying sail letters and numbers	
4.04.2	Jack stays are independent on each side of the deck	

4.04.2	Jack stays to permit crew to move between workstations while clipped	
4.04.3	Clipping points at workstations so that 2/3 can clip on without jack stays	 Ш
<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 50%	
<u>4.26.2</u>	Heavy weather jib, attachable independent of luff groove	
<u>4.26.3</u>	Storm jib, attachable independent of luff groove (permanent)	
<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	
2.04.2	Heavy items are permanently installed or securely fastened	
3.02	Boat is strongly built, seaworthy and watertight	
3.08.1	Forward hatches open outward only	
3.08.2	Hatches are attached, above water at 90° heel & operable if capsized	
3.08.5	Companionway sill is above local sheerline, or acceptable alternative	
3.09	Cockpit is strong, watertight and meets OSR size and drainage	
<u>3.14</u>	Double lifelines & pulpits, surround entire deck, 600 mm (24") high	
<u>3.14.3</u>	Lifeline materials and diameters meet OSR	
<u>3.17.1</u>	25 mm (1") toe rail around foredeck	
<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	Permanently installed manual bilge pumps, 1 operable above, 1 below deck	
3.23.2	Permanently installed manual bilge pump operable with all hatches closed	
<u>3.24</u>	Magnetic compass, unpowered, with deviation chart	
3.24	2nd magnetic compass, may be hand-held and/or electronic	
<u>3.25</u>	2 halyards per mast, each capable of hoisting a sail	
3.28.1	Propulsion engine provides minimum speed of 3/4 hull speed	
3.28.1	Inboard propulsion engine	
3.28.3	Fuel or battery capacity to motor at 3/4 hull speed for 5 hours + electric needs	
4.01.1	Sail letters and numbers meeting RRS 77 & RRS G	

APPENDIX F – INSPECTION CARD

<u>4.13.1</u>	Knotmeter or log	
4.13.2	Depth sounder	
<u>4.17</u>	Boat's name on buoyant equipment	
<u>4.18</u>	Marine grade retro-reflective material on buoyant equipment	
4.30	Emergency pump, electric or engine powered, 200 L/min (3200 US gph)	