ISAF OFFSHORE SPECIAL REGULATIONS

JANUARY 2014 - DECEMBER 2015 (Incorporating Amendments Effective 1st January 2015) www.sailing.org/specialregs



Extract for Race Category 4 Monohulls

 \odot ORC Ltd. 2002, all amendments from 2003 \odot International Sailing Federation, (IOM) Ltd. Version 2 - 2015

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

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Official interpretations shall take precedence over these Special Regulations and will be indexed, numbered, dated and displayed on the ISAF web site www.sailing.org/specialregs

Language & Abbreviations Used

- Mo Monohull
- Mu Multihull

" ** " means the item applies to all types of yacht in all Categories except 5 for which see Appendix J or 6 for which see Appendix L.

RED TYPE indicates a significant changes in 2015 *Guidance notes and recommendations are in italics*

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

Administration

The Offshore Special Regulation are administered by the ISAF Special Regulation Sub-Committee whose terms of reference are as follows: (www.sailing.org/regulations)

ISAF Regulation 6.8.8.3 - The Special Regulations Sub-Committee shall: (a) be responsible for the maintenance, revision and changes to the ISAF 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 E-Mail: technical@isaf.co.uk

SECTION 1 - FUNDAMENTAL AND DEFINITIONS

1.01 Purpose and Use

- 1.01.1 It is the purpose of these Special Regulations to establish uniform minimum equipment, accommodation and training standards for monohull and multihull yachts racing offshore. A Proa is excluded from these regulations.
- 1.01.2 These Special Regulations do not replace, but rather supplement, the requirements ** of governmental authority, the Racing Rules and the rules of Class Associations

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and Rating Systems. The attention of persons in charge is called to restrictions in the Rules on the location and movement of equipment.

1.01.3 These Special Regulations, adopted internationally, are strongly recommended for use by all organizers of offshore races. Race Committees may select the category deemed most suitable for the type of race to be sailed.

1.02 Responsibility of Person in Charge

- 1.02.1 The safety of a yacht and her crew is the sole and inescapable responsibility of the person in charge who must do his best to ensure that the yacht is fully found, thoroughly seaworthy and manned by an experienced crew who have undergone appropriate training and are physically fit to face bad weather. He must be satisfied as to the soundness of hull, spars, rigging, sails and all gear. He must ensure that all safety equipment is properly maintained and stowed and that the crew know where it is kept and how it is to be used. He shall also nominate a person to take over the responsibilities of the Person in Charge in the event of his incapacitation.
- 1.02.2 Neither the establishment of these Special Regulations, their use by race organizers, nor the inspection of a yacht under these Special Regulations in any way limits or reduces the complete and unlimited responsibility of the person in charge.

1.02.3 Decision to race -The responsibility for a yacht's decision to participate in ** a race or to continue racing is hers alone - RRS Fundamental Rule 4.

1.03 Definitions, Abbreviations, Word Usage

1.03.1 Definitions of Terms used in this document TABLE 1

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Age DateMonth/year of first launchAISAutomatic Identification SystemsCENComité Européen de NormalisationCPRCardio-Pulmonary ResuscitationCoamingIncludes the transverse after limit of the cockpit over which water would run in the event that when the yacht is floating level the cockpit is flooded or filled to overflowing.DSCDigital Selective CallingENEuropean NormEPFSElectronic Position-Fixing SystemEPIRBEmergency Position-Indicating Radio BeaconFA StationThe transverse station at which the upper corner of the transom meets the sheerline.Foul-WeatherA foul weather suit is clothing designed to keep the wearer dry and maybe either a jacket and trousers worn together, or a single garment comprising jacket and trousers.GMDSSGlobal Maritime Distress & Safety SystemGPIRBEPIRB, with integral GPS position-fixingITUInternational Telecommunications UnionGPSGlobal Positioning SystemHatchThe term hatch includes the entire hatch assembly and also the lid or cover as part of that assembly (the part itself may be described as a hatch).INMARSATThis is Inmarsat Global Limited, the private company that provides GMDSS satellite OrganisationIMOInternational Maritime OrganisationIMSOThe International Mobile Satellite Organisation, the independent, intergovernmental organisation that oversees Inmarsat's performance of its Public Service Obligations for the GMDSS and reports on these to IMOISAFInternational Sailing Federation.	TABLE I	
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GMDSS and reports on these to IMO		
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ISAF International Sailing Federation.		
	ISAF	International Sailing Federation.

ISO	International Standard or International Organization for Standardization.
Lifeline	Rope or wire line rigged as guardrail / guardline around the deck
LOA	Length overall not including pulpits, bowsprits, boomkins etc.
LWL	(Length of) loaded waterline
Monohull	Yacht in which the hull depth in any section does not decrease towards the centre-line.
Moveable Ballast	Lead or other material including water which has no practical function in the boat other than to increase weight and/or to influence 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	Means 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
Proa	Asymmetric Catamaran
RRS	ISAF - Racing Rules of Sailing
SAR	Search and Rescue
SART	Search and Rescue Transponder
Series Date	Month & Year of first launch of the first yacht of the production
	series
SOLAS	Safety of Life at Sea Convention
Safety Line	A tether used to connect a safety harness to a strong point
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 degree capsize and allows for the item to be removed and replaced during racing
Static Ballast	Lead or other material including water which has no practical function in the boat other than to increase weight and/or to influence stability and/or trim and which may not be moved or varied in weight while a boat is racing.
Static Safety Line	A safety line (usually shorter than a safety line carried with a harness) kept clipped on at a work-station
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.
	and "must" are mandatory, and "should" and "may" are
permissive.	

SECTION 2 - APPLICATION & GENERAL REQUIREMENTS

2.01 Categories of Events

In many types of race, ranging from trans-oceanic sailed under adverse conditions ** to short-course day races sailed in protected waters, seven categories are established, to provide for differences in the minimum standards of safety and accommodation required for such varying circumstances:

2.01.5 Category 4

1.03.2

1.03.3

Short races, close to shore in relatively warm or protected waters normally held in MoMu,4 daylight.

2.02 Inspection

A yacht may be inspected at any time. If she does not comply with these Special Regulations her entry may be rejected, or she will be liable to disqualification or such other penalty as may be prescribed by the national authority or the race organizers.

2.03 General Requirements

- 2.03.1 All equipment required by Special Regulations shall:-
- a) function properly

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b)	be regularly checked, cleaned and serviced	**
c)	when not in use be stowed in conditions in which deterioration is minimised	**
d)	be readily accessible	**
e)	be of a type, size and capacity suitable and adequate for the intended use and size	**
-)	of the yacht.	
2.03.2	Heavy items:	
a)	ballast, ballast tanks and associated equipment shall be permanently installed	**
b)	heavy movable items including e.g. batteries, stoves, gas bottles, tanks, toolboxes	**
	and anchors and chain shall be securely fastened	
c)	heavy items for which fixing is not specified in Special Regulations shall be	**
	permanently installed or securely fastened, as appropriate	deele
2.03.3	When to show navigation lights	**
a)	navigation lights (OSR 3.27) shall be shown as required by the International	<u>ተ</u> ተ
	Regulations for Preventing Collision at Sea, (Part C and Technical Annex 1). All yachts shall exhibit sidelights and a sternlight at the required times.	
SECTIO	N 3 - STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT	
3.01	Strength of Build, Ballast and Rig	
5.01	Yachts shall be strongly built, watertight and, particularly with regard to hulls,	**
	decks and cabin trunks capable of withstanding solid water and knockdowns. They	
	must be properly rigged and ballasted, be fully seaworthy and must meet the	
	standards set forth herein. Shrouds shall never be disconnected.	
3.02	Watertight Integrity of a Hull	
3.02.1	A hull, including, deck, coach roof, windows, hatches and all other parts, shall form	**
	an integral, essentially watertight unit and any openings in it shall be capable of	
	being immediately secured to maintain this integrity.	
3.02.2	Centreboard and daggerboard trunks and the like shall not open into the interior of	**
	a hull except via a watertight inspection/maintenance hatch of which the opening	
2 02 2	shall be entirely above the waterline of the yacht floating level in normal trim.	**
3.02.3	A canting keel pivot shall be completely contained within a watertight enclosure	<u>ተ</u> ተ
	which shall comply with OSR 3.02.2. Access points in the watertight enclosure for	
3.02.4	control and actuation systems or any other purpose shall comply with OSR 3.02.1. Moveable ballast systems shall be fitted with a manual control and actuation	**
5.02.4	secondary system which shall be capable of controlling the full sailing load of the	
	keel in the event of failure of the primary system. Such failures would include	
	electrical and hydraulic failure and mechanical failure of the components and the	
	structure to which it mounts. The system must be capable of being operational	
	quickly and shall be operable at any angle of heel. It would be desirable if this	
	system was capable of securing the keel on the centreline.	
3.03.5	Regular inspection of the keel and keel/hull attachment structure are strongly	Mo0,1,2,3,4
	recommended	
3.04	Stability - Monohulls	Mo0,1,2,3,4
3.04.2	A yacht shall be designed and built to resist capsize.	Mo0,1,2,3,4
3.04.6	Use of the ISO or any other index does not guarantee total safety or total freedom	<i>Mo0,1,2,3,4</i>
2 0 4 7	of risk from capsize or sinking.	Ma0 1 2 2 4
3.04.7	For boats with moveable or variable ballast the method in OSR 3.04.4 shall apply	Mo0,1,2,3,4
3.04.8	plus the relevant additional requirement of OSR Appendix K. Tanks for variable ballast shall be permanently installed and shall be provided with	Mo0,1,2,3,4
J.07.0	a system of isolating valves and pump(s) capable of manual operation at any angle	1100,1,2,3,7
	of heel. A plan of the plumbing system shall be displayed aboard the boat.	
3.04.9	A boat fitted with moveable and/or variable ballast shall have a maximum static	Mo0,1,2,3,4
	heel angle in the condition of Light Craft Condition (see ISO 12217-2) with	
	moveable ballast moved fully to one side and variable ballast in the condition that	
	produces maximum angle of heel of not greater than 35 degrees.	
3.06	Exits - Monohulls	Mo0,1,2,3,4
3.06.1	Yachts of LOA of 8.5 m (28 ft) and over with age or series date after January 1995	Mo0,1,2,3,4
	and after shall have at least two exits. At least one exit shall be located forward of	
.	the foremost mast except where structural features prevent its installation.	
3.06.2	Yachts first launched on or after January 2014 have a hatch with the following	Mo0,1,2,3,4
	minimum clear openings in compliance with ISO 9094:	

- Circular shape: diameter 450mm;

- Any other shape: minimum dimension of 380mm and minimum area of 0.18m2. The dimension must be large enough to allow for a 380mm diameter circle to be inscribed.

The measurement of the minimum clear opening is illustrated in Figure 1.

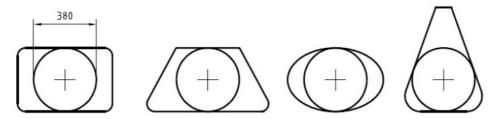


Figure 1 - Measurements of Minimum Clear Opening

3.06.3 when first launched prior to January 2014, if possible have each escape hatch in Mo0,1,2,3,4 compliance with the dimensions in OSR 3.07.2(a)(ii);

3.08 Hatches & Companionways No hatch forward of the maximum beam station, other than a hatch in the side of ** 3.08.1 a coachroof, shall open in such a way that the lid or cover moves into the open position towards the interior of the hull (excepting ports having an area of less than 0.071m2 (110 sq in)). ** 3.08.2 A hatch fitted forward of the maximum beam station, located on the side of the coachroof, opening into the interior of the boat ,and of area greater than 0.071m2 shall comply with ISO12216 design category A and be clearly labelled and used in accordance with the following instruction: "NOT TO BE OPENED AT SEA" Attention is drawn to SR 3.02.1 3.08.3 A hatch shall be: a) so arranged as to be above the water when the hull is heeled 90 degrees. Hatches Mo0,1,2,3,4 over lockers that open to the interior of the vessel shall be included in this requirement. A yacht may have a maximum of four (two on each side of centerline) hatches that do not conform to this requirement, provided that the opening of each is less than 0.071 sq m (110 sq in). Effective for boats of a series begun after January 1, 2009, a written statement signed by the designer or other person who performed the downflooding analysis shall be carried on board. For purposes of this rule the vessel's displacement condition for the analysis shall be the Light Craft Condition LCC (in conformity with 6.3 of the EN ISO 8666 standard and 3.5.1 of the EN ISO12217-2 standard). b) permanently attached ** ** c) capable of being firmly shut immediately and remaining firmly shut in a 180 degree capsize (inversion) 3.08.4 A companionway hatch shall: ** be fitted with a strong securing arrangement which shall be operable from the a) exterior and interior including when the yacht is inverted have any blocking devices: ** b) capable of being retained in position with the hatch open or shut ** i ii whether or not in position in the hatchway, secured to the yacht (e.g. by lanyard) ** for the duration of the race, to prevent their being lost overboard ** permit exit in the event of inversion iii 3.08.5 If the companionway extends below the local sheerline and the boat has a cockpit Mo0,1,2,3,4 opening aft to the sea the boat shall comply with one of the following: the companionway sill shall not extend below the local sheerline. Or Mo0,1,2,3,4 a) b) be in full compliance with all aspects of ISO 11812 to design category A Mo0,1,2,3,4 3.08.6 For boats with a cockpit closed aft to the sea where the companionway hatch Mo0,1,2,3,4 extends below the local sheerline, the companionway shall be capable of being blocked off up to the level of the local sheerline, provided that the companionway hatch shall continue to give access to the interior with the blocking devices (e.g. washboards) in place

3.09 Cockpits - Attention is Drawn to ISO 11812

3.09.1 Cockpits shall be structurally strong, self-draining quickly by gravity at all angles of **

	heel and permanently incorporated as an integral part of the hull.	
3.09.2	Cockpits must be essentially watertight, that is, all openings to the hull must be	**
	capable of being strongly and rigidly secured	
3.09.3	A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8	**
	for cockpit drain minimum sizes	
3.09.4	A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched	**
	before 1/03, at least 2% L above LWL)	
3.09.5	A bow, lateral, central or stern well shall be considered a cockpit for the purposes	**
	of OSR 3.09	
3.09.6	In cockpits opening aft to the sea structural openings aft shall be not less in area	**
	than 50% maximum cockpit depth x maximum cockpit width.	
3.09.7	Cockpit Volume	
i)	earliest of age or series date before April 1992	
-	the total volume of all cockpits below lowest coamings shall not exceed 9% (LWL x	Extract
	maximum beam x freeboard abreast the cockpit).	MoMu2,3,4
ii)	earliest of age or series date April 1992 and after	
	as above for the appropriate category except that "lowest coamings" shall not	Extract **
	include any aft of the FA station and no extension of a cockpit aft of the working	
	deck shall be included in calculation of cockpit volume	
	IMS-rated boats may instead of the terms LWL, maximum beam, freeboard abreast	Extract **
	the cockpit, use the IMS terms L, B and FA.	
3.09.8	Cockpit Drains	
	See OSR 3.09.1. Cockpit drain cross section area (after allowance for screens if	
	fitted) shall be:-	
a)	in yachts with earliest of age or series date before 1/72 or in any yacht under 8.5m	**
u)	(28ft) LOA - at least that of 2 x 25mm diameter (one inch) unobstructed openings	
	or equivalent	
b)	in yachts with earliest of age or series date $1/72$ and later - at least that of 4 x	**
5)	20mm diameter (3/4 inch) unobstructed openings or equivalent	
3.10	Sea Cocks or Valves	
5.10	Sea cocks or valves shall be permanently installed on all through-hull openings	**
	below the waterline except integral deck scuppers, speed indicators, depth finders	
	and the like, however a means of closing such openings shall be provided.	
3.11	Sheet Winches	
5.11	Sheet winches shall be mounted in such a way that an operator is not required to	**
	be substantially below deck.	
3.12	Mast Step	
J.12	The heel of a keel stepped mast shall be securely fastened to the mast step or	**
	adjoining structure.	
3.14	Pulpits, Stanchions, Lifelines	
3.14.2	Lifeline deflection shall not exceed the following:	**
	When a deflecting force of 4 kg/f (39.2 N) is applied to a lifeline midway between	**
a)		
	supports of an upper or single lifeline, the lifeline shall not deflect more than	
	50mm. This measurement shall be taken at the widest span between supports that are aft of the mast.	
b)		**
b)	When a deflecting force of 4 kg/f (39.2 N) is applied midway between supports of	
	an intermediate lifeline of all spans that are aft of the mast, deflection shall not	
2 1 4 2	exceed 120mm from a straight line between the stanchions.	**
3.14.3	The following shall be provided:	
a)	a bow pulpit with vertical height and openings essentially conforming to Table 7.	Mo0,1,2,3,4
	Bow pulpits may be open but the opening between the pulpit and any part of the	
	boat shall never be greater than 360mm (14.2") (this requirement shall be checked	
	by presenting a 360mm (14.2") circle inside the opening)	

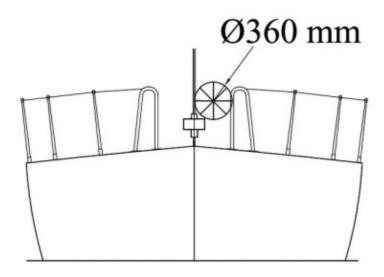


Figure 2 - Diagram Showing Pulpit Opening

b)	a stern pulpit, or lifelines arranged as an adequate substitute, with vertical openings conforming to Table 7	Mo0,1,2,3,4
c)	lifelines (guardlines) supported on stanchions, which, with pulpits, shall form an effectively continuous barrier around a working deck for man-overboard prevention. Lifelines shall be permanently supported at intervals of not more than	**
d)	2.20m (86.6") and shall not pass outboard of supporting stanchions upper rails of pulpits at no less height above the working deck than the upper lifelines as in Table 7.	**
e)	Openable upper rails in bow pulpits shall be secured shut whilst racing	**
f)	Pulpits and stanchions shall be permanently installed. When there are sockets or studs, these shall be through-bolted, bonded or welded. The pulpit(s) and/or stanchions fitted to these shall be mechanically retained without the help of the life-lines. Without sockets or studs, pulpits and/or stanchions shall be through-bolted, bonded or welded.	**
g)	The bases of pulpits and stanchions shall not be further inboard from the edge of the appropriate working deck than 5% of maximum beam or 150 mm (6 in), whichever is greater.	**
h)	Stanchion or pulpit or pushpit bases shall not be situated outboard of a working deck. For the purpose of this rule the base shall be taken to include a sleeve or socket into which the tube is fitted but shall exclude a baseplate which carries fixings into the deck or hull.	**
i)	Provided the complete lifeline enclosure is supported by stanchions and pulpit bases effectively within the working deck, lifeline terminals and support struts may be fixed to a hull aft of the working deck	**
j)	Lifelines need not be fixed to a bow pulpit if they terminate at, or pass through, adequately braced stanchions set inside and overlapping the bow pulpit, provided that the gap between the upper lifeline and the bow pulpit does not exceed 150 mm (6 in).	**
k)	Lifelines shall be continuous and fixed only at (or near) the bow and stern. However a bona fide gate shall be permitted in the lifelines on each side of a yacht. Except at its end fittings, the movement of a lifeline in a fore-and-aft direction shall not be constrained. Temporary sleeving in 3.14.6 (c) shall not modify tension in the lifeline.	**
I)	Stanchions shall be straight and vertical except that:-	**
í	within the first 50 mm (2 in) 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 in),and	
ii	stanchions may be angled to not more than 10 degrees from vertical at any point above 50 mm (2 in) from the deck.	**
<i>m)</i>	It is strongly recommended that designs also comply to ISO 15085	**
3.14.5	Lifeline Height, Vertical Openings, Number of Lifelines TABLE 7	**

	LOA	earliest	: of riesdate	minir	num requirements			Category
	under 8.5 m(28 ft)		January	-	e lifeline at a height of no les (18 in) above the working de			**
					ing shall exceed 560 mm (22			
	under 8.5	Januar	y 1992		r under 8.5 m(28 ft) in table			**
	m(28 ft)	and aft			pt that when an intermediate			
					no vertical opening shall ex			
				(15 i				
	8.5 m (28	before	January		le lifeline with upper lifeline	at a heig	ht of	**
	ft) and	1993	,		ss than 600 mm (24 in) abo			
	over				. No vertical opening shall ex		-	
				(22 i				
	8.5 m (28	Januar	y 1993	•	5 m (28 ft) and over in Table	e 7 abov	e,	**
	ft)and	and aft	er	exce	pt that no vertical opening sl	nall exce	ed	
	over			380 і	mm (15 in).			
	all	all		on ya	achts with intermediate lifelir	nes the		**
				inter	mediate line shall be not less	than 23	0 mm	
				(9 in) above the working deck.			
14.6			Diameters,	Requ	iired Materials, Specificat	ions		
	Lifelines shal							**
			ess steel wir					**
	-			-	PE) (Dyneema®/Spectra® o	r equival	ent)	Mo4,Mu*
	rope (Braid o							aleale
			•		able 8 below.			**
					ed and used without close-fit	-		**
		nporary	sleeving may	у ре п	tted provided it is regularly r	removea	TOP	
	inspection.	nce wire	ic used Cra	da 21	f is recommended			**
)					6 is recommended.			
			na(p)/Snoctra	a@\ ic	used it shall be protected f	rom chaf	b nc	Mo/ Mu*
					used, it shall be protected f			Mo4,Mu*
	shall be splic	ed in acc	cordance wit	th the	manufacturer's recommende	ed proced	dures.	Mo4,Mu* [*]
	shall be splic A taut lanyar	ed in accord of synt	thetic rope n	th the may be	manufacturer's recommende e used to secure lifelines pro	ed proced vided the	<mark>dures.</mark> e gap it	
	shall be splic A taut lanyar	ed in accord of synt	thetic rope n	th the may be	manufacturer's recommende	ed proced vided the	<mark>dures.</mark> e gap it	
	shall be splic A taut lanyar closes does r minimum.	ed in acc d of synt not excee	thetic rope n ed 100 mm (th the may be (4 in).	manufacturer's recommende e used to secure lifelines pro	ed proced vided the ed annua	<mark>dures.</mark> e gap it ally at a	
	shall be splic A taut lanyar closes does r minimum. All wire, fittir	ed in acc d of synt not excee ngs, anch	cordance wit thetic rope n ed 100 mm (norage point	th the may be (4 in). s, fixt	manufacturer's recommender e used to secure lifelines pro This lanyard shall be replace	ed proced vided the ed annua prise a life	<mark>dures.</mark> e gap it ally at a eline	**
	shall be splic A taut lanyar closes does r minimum. All wire, fittir	ed in acc rd of synt not excee ngs, anch stem whi	cordance wit thetic rope n ed 100 mm (norage point ich has at al	th the may be (4 in). s, fixt	manufacturer's recommender e used to secure lifelines pro This lanyard shall be replace ures and lanyards shall comp	ed proced vided the ed annua prise a life	<mark>dures.</mark> e gap it ally at a eline	**
	shall be splic A taut lanyar closes does r minimum. All wire, fittir enclosure sys	nd in acc rd of synt not excee ngs, anch stem whi ine wire.	cordance wit thetic rope n ed 100 mm (norage point ich has at al	th the may be (4 in). s, fixt	manufacturer's recommender e used to secure lifelines pro This lanyard shall be replace ures and lanyards shall comp	ed proced vided the ed annua prise a life	<mark>dures.</mark> e gap it ally at a eline	**
	shall be splic A taut lanyar closes does r minimum. All wire, fittir enclosure sys required lifeli	nd in acc rd of synt not excee ngs, anch stem whi ine wire.	cordance wit thetic rope n ed 100 mm (norage point ich has at al	th the may be (4 in). s, fixt	manufacturer's recommender e used to secure lifelines pro This lanyard shall be replace ures and lanyards shall comp	ed proced vided the ed annua prise a life gth of th	dures. e gap it ally at a eline e	** ** **
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	shall be splic A taut lanyar closes does r minimum. All wire, fittir enclosure sys required lifeli TABLE 8 - Mi LOA under 8.5m 8.5m - 13m over 13m (4)	nd in acc rd of synt not exceet ngs, anch stem whi ine wire. inimum [(28ft)	cordance wit thetic rope n ed 100 mm (norage point ich has at al Diameters wire 3mm (1/8	th the may be (4 in). s, fixt l point in) 2 in)	manufacturer's recommender e used to secure lifelines pro This lanyard shall be replace ures and lanyards shall comp ts at least the breaking stren HMPE rope (Single braid) 4mm (5/32 in)	ed proceed vided the ed annua prise a life gth of th HMPE (4mm (!	dures. e gap it ally at a eline e <u>Core (Br</u> 5/32 in) 3/16 in)	** ** raid on braid
18	shall be splic A taut lanyar closes does r minimum. All wire, fittir enclosure sys required lifeli TABLE 8 - Mi LOA under 8.5m 8.5m - 13m over 13m (4	rd of synt not exceed ngs, anch stem whi ine wire. (28ft) (28ft) 1 43 ft)	cordance wit thetic rope n ed 100 mm (norage point ich has at all Diameters wire 3mm (1/8 4mm (5/32 5mm (3/16	th the may be (4 in). (5, fixt l point in) <u>2 in)</u> <u>5in)</u>	manufacturer's recommender e used to secure lifelines pro This lanyard shall be replace ures and lanyards shall comp ts at least the breaking stren HMPE rope (Single braid) 4mm (5/32 in) 5mm (3/16 in) 5mm (3/16in)	ed proceed vided the ed annua prise a life gth of th HMPE (4mm (! 5mm (.	dures. e gap it ally at a eline e <u>Core (Br</u> 5/32 in) 3/16 in)	** ** raid on braid
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3.23.5 e) f) 3.24	lanyard or catch or simila The following shall be pr one manual bilge pump two buckets of stout con gallons) capacity. Each b Compass	Mo4 **	
3.24.1 a) 3.25		ovided:- ass, independent of any power supply, permanently ljusted with deviation card, and	**
	No mast shall have less t	than two halyards, each capable of hoisting a sail.	**
3.27 3.27.1	Navigation Lights (see Navigation lights shall be	e OSR 2.03.3) e mounted so that they will not be masked by sails or the	**
3.27.2	5	t be mounted below deck level and should be at no less	**
3.27.3	height than immediately Navigation light intensity TABLE 11	••	
	LOA	<i>Guide to required minimum power rating for an electric bulb in a navigation light</i>	
	under 12 m (39.4 ft)	10 W	
	12 m (39.4 ft) and above	25 W	
3.27.5	spare bulbs for navigatio bulbs, appropriate spare	n lights shall be carried, or for lights not dependent on	**
3.28	Engines, Generators,		
3.28.1	Propulsion Engines		**
a)	Engines and associated s manufacturers' guideline	systems shall be installed in accordance with their s and shall be of a type, strength, capacity, and ne size and intended use of the yacht.	**
b)	An inboard propulsion er installed exhaust, coolan	ngine when fitted shall: be provided with a permanently t, and fuel supply systems and fuel tank(s); be securely uate protection from the effects of heavy weather.	**
3.28.2		aute protection from the cheets of heavy weather.	
	generator is carried it sh have permanently install	electricity is optional. However, when a separate all be permanently installed, securely covered, and shall ed exhaust, cooling and fuel supply systems and fuel ate protection from the effects of heavy weather.	**
3.29	Communications Equi Radar, AIS	pment, EPFS (Electronic Position-Fixing System),	**
3.29.1	The following shall be pr	ovided:	**
e)		transceiver, watertight or with a waterproof cover. When	MoMu1,2,3,4
		in a grab bag or emergency container (see OSR 4.21) The I have Digital Selective Calling (DSC) and be equipped with	
f)		adio transceiver, a radio receiver capable of receiving	**
3.29.2		t no reflector, active or passive, is a guarantee of a vessel using radar.	**
a)	The attention of persons	in charge is drawn to legislation in force or imminent	**
	2	eas of some countries in which the carriage of an AIS set for certain vessels including relatively small craft.	
SECTIO		PMENT & SUPPLIES for the yacht	
	ter & fuel see OSR 3.21		
4.01	Sail Letters & Number	rs	
4.01.1		an ISAF International Class or Recognized Class shall	**
	• •	Appendix G as closely as possible, except that sail	
	numbers anotted by a St	ate authority are acceptable.	

4.01.2	Sail numbers and letters of the size carried on the mainsail must be displayed by alternative means when none of the numbered sails is set.	**
4.03	Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed	**
4.05	adjacent to the appropriate fitting for every through-hull opening. Fire Extinguishers Shall be provided as follows:	
4.05.1	Fire extinguishers, at least two, readily accessible in suitable and different parts of the yacht	**
4.05.4 4.06	A fire blanket adjacent to every cooking device with an open flame Anchor(s)	**
4.06.1	An anchor or anchors shall be carried according to the table below:	**
a)	1 anchor, readily accessible	MoMu4
4.07	Flashlight(s) and Searchlight(s)	nonu-
4.07.1	The following shall be provided:-	
a)	A watertight, high-powered searchlight, suitable for searching for a person	**
aj	overboard at night and for collision avoidance with spare batteries and bulbs, and	
b)	a watertight flashlight with spare batteries and bulb	**
4.08	First Aid Manual and First Aid Kit	**
4.08.1	A suitable First Aid Manual shall be provided	**
4.00.1	In the absence of a National Authority's requirement, the latest edition of one of	**
	the following is recommended:-	
6)	First Aid at Sea, by Douglas Justins and Colin Berry, published by Adlard Coles	MaMuzza
<i>b)</i>	Nautical,London	MoMu2,3,4
	Le Guide de la medecine a distance, by Docteur J Y Chauve, published by Distance	**
<i>c)</i>	Assistance BP33 F-La Baule, cedex, France.	
d)	'PAN-PAN medico a bordo' in Italian edited by Umberto Verna. www.panpan.it	MaMuzza
<i>d)</i>	Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr Campbell	MoMu2,3,4 **
e)	Mackenzie www.msos.org.uk	
4.08.2	A First Aid Kit shall be provided	**
4.08.2 4.08.3	The contents and storage of the First Aid Kit should reflect the guidelines of the	**
4.00.3	Manual carried, the likely conditions and duration of the passage, and the number	
	of people aboard the yacht.	
4.09	Foghorn	**
4 1 0	A foghorn shall be provided	ጥጥ
4.10	Radar Reflector	**
4.10.1	A passive radar reflector shall be carried with:	ጥጥ
	Octahederal circular sector plates of minimum diameter 300 mm (12") or	
	Octahederal rectangular plates of minimum diagonal dimension 405 mm (16") or	
	a non-Octahederal reflector with a documented Root Mean Square minimum	
	Radar Cross Section (RCS) area of 2 m2 from 0-360 degrees in azimuth and +/- 20	
• • • •	degrees in heel.	
4.11 4.11.1	Navigation Equipment Charts	
4.11.1		**
	Navigational charts (not solely electronic), light list and chart plotting equipment	
4.12	shall be provided Safety Equipment Location Chart	
4.12	A safety equipment location chart in durable waterproof material shall be displayed	**
	in the main accommodation where it can best be seen, clearly marked with the	
4.13	location of principal items of safety equipment. Echo Sounder or Lead Line	
4.13 4.13.1	An echo sounder or lead line shall be provided	MoMu1,2,3,4
4. 15.1 4.16	Tools and Spare Parts	momu1,2,3,4
4.10	•	**
	Tools and spare parts, including effective means to quickly disconnect or sever the standing rigging from the hull shall be provided.	
4.17	Yacht's name	
4.1/	Yacht's name Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets,	**
	cushions, lifebuoys, lifeslings, grab bags etc.	
4.18	Marine grade retro-reflective material	
7.10	manne grade retro renective material	

Marine grade retro-reflective material shall be fitted to lifebuoys, lifeslings, liferafts ** and lifejackets. See OSRs 5.04, 5.08.

4.22 Lifebuoys

- 4.22.1 The following shall be provided within reach of the helmsman and ready for instant ** use:
- a) a lifebuoy with a self-igniting light and a drogue
- 4.22.3 Each inflatable lifebuoy and any automatic device (e.g. pole and flag extended by compressed gas) shall be tested and serviced at intervals in accordance with its manufacturer's instructions.
- 4.22.4 Each lifebuoy or lifesling shall be fitted with marine grade retro-reflective material ** (4.18).
 4.22.5 It is recommended that the colour of each lifebuoy be a cafety colour in the **
- 4.22.5 It is recommended that the colour of each lifebuoy be a safety colour in the yellow-red range.

4.23 Pyrotechnic and Light Signals

4.23.1 Pyrotechnic signals shall be provided conforming to SOLAS LSA Code Chapter III ** Visual Signals and not older than the stamped expiry date (if any) or if no expiry date stamped , not older than 4 years.

red parachute flares LSA III	red hand flares LSA III	orange smoke LSA III	race
3.1	3.2	3.3	category
6	4	2	MoMu0,1
4	4	2	MoMu2,3
	4	2	Mo4
2	4	2	Mu4

**

**

**

**

TABLE 13

4.24 Heaving Line

a)	a heaving line shall be provided 15 m - 25 m (50 ft - 75 ft) length readily	**
	accessible to cockpit.	
b)	the "throwing sock" type is recommended - see Appendix D	**

4.25 Cockpit Knife

A strong, sharp knife, sheathed and securely restrained shall be provided readily ** accessible from the deck or a cockpit.

4.26 Storm & Heavy Weather Sails

4.26.1 Design

a) it is strongly recommended that persons in charge consult their designer ** and sailmaker to decide the most effective size for storm and heavy weather sails. The purpose of these sails is to provide safe propulsion for the yacht in severe weather -they are not intended as part of the racing inventory. The areas below are maxima. Smaller areas are likely to suit some yachts according to their stability and other characteristics.

4.26.2 High Visibility

- a) Every storm jib shall either be of highly-visible coloured material (e.g. dayglo pink, ** orange or yellow) or have a highly-visible coloured patch at least 50% of the area of the sail (up to a maximum diameter of 3m) added on each side; and also that a rotating wing mast should have a highly-visible coloured patch on each side. A storm sail purchased after January 2014 shall have the material of the body of the sail a highly-visible colour.
- *b) it is strongly recommended that the storm trysail should either be made of or have ** a patch of highly visible colour.*

4.26.3 Materials

- a) aromatic polyamides, carbon and similar fibres shall not be used in a trysail or ** storm jib but spectra/dyneema and similar materials are permitted.
 b) it is strongly recommended that a beautyweather jib does not contain aromatic **
- b) it is strongly recommended that a heavy-weather jib does not contain aromatic polyamides, carbon and similar fibres other than spectra/dyneema.

4.26.4 The following shall be provided:-

- a) sheeting positions on deck for each storm and heavy-weather sail;
- b) for each storm or heavy-weather jib, a means to attach the luff to the stay, independent of any luff-groove device. A heavy weather jib shall have the means of attachment readily available. A storm jib shall have the means of attachment

permanently attached;

Storm and heavy weather jib areas shall be calculated as:

 $(0.255 \times luff length \times (luff perpendicular + 2 \times half width))^*$ To apply to sails made in January 2012 and after.

- d) if a storm trysail is required by OSR 4.26.4 (g) the yacht's sail number and letter(s) Extract shall be placed on both sides of the trysail (or on a rotating wing mast as MoMu 3,4 substitute for a trysail) in as large a size as practicable;
- f) a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of area not ** greater than 13.5% height of the foretriangle squared;

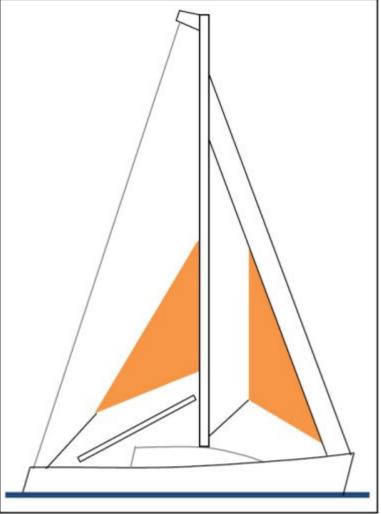


Figure 3

SECTION 5 - PERSONAL EQUIPMENT

5.01 Lifejacket

J.OT	LICJACKEL	
5.01.1 a)	Each crew member shall have a lifejacket as follows:-	** **
i	In accordance with ISO $12402 - 3$ (Level 150) or equivalent, including EN 396 or UL 1180	**
ii	Lifejackets manufactured after 1 January 2012 shall be in accordance with ISO 12402–3 (Level 150) and shall be fitted with:-	**
	• an emergency light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3.	
	• a sprayhood in accordance with ISO 12402-8.	
	 a full deck safety harness in accordance with ISO 12401 (ISO 1095) including a crotch or thigh strap (holding down device) as specified in ISO 12401 (ISO 1095). If of an inflatable type either 	
	(a) automatic, manual and oral inflation or	
	(b) manual and oral inflation	
	Notes: ISO 12402 requires Level 150 lifejackets to be fitted with a mandatory	

whistle and retro-reflective material. Also, when fitted with a safety harness, ISO 12402 requires that this shall be the full safety harness in accordance with ISO

b)	12401. Any equivalent lifejacket shall have equal requirements. Persons of larger than average build are generally more buoyant than those of average build and so do not require a lifejacket with greater levels of flotation. Wearing a Level 275 lifejacket may hamper entry into liferafts. fitted with either a crotch strap(s) / thigh straps or a full safety harness in	**
	accordance with ISO 12401, Note: The function of lifejacket crotch/thigh straps is to hold the buoyancy element down. A crew member before a race should adjust a lifejacket to fit then retain that lifejacket for the duration of the race. Correct adjustment is fundamental to the lifejacket functioning correctly.	
c)	fitted with a lifejacket light in accordance with SOLAS LSA code 2.2.3 (white, >0.75 candelas, >8 hours),	**
d)	if inflatable have a compressed gas inflation system,	**
e)	if inflatable, regularly checked for gas retention,	**
f)	compatible with the wearer's safety harness,	**
g)	clearly marked with the yacht's or wearer's name,	**
j)	It is strongly recommended that a lifejacket has a splashguard / sprayhood See ISO 12402 – 8,	MoMu1,2,3,4
5.01.4	The person in charge shall personally check each lifejacket at least once annually.	**
5.02.6	Warning - a safety line and safety harness are not designed to tow a person in the water and it is important that the shortest safety line length possible be used with a harness to minimise or eliminate the risk of a person's torso becoming immersed in water outside the boat, especially when working on the foredeck. 1m safety lines or the midpoint snaphook on a 2m line should be used for this purpose. The diligent use of a properly adjusted safety harness and the shortest safety line practicable is regarded as by far the most effective way of preventing man overboard incidents.	**
5.04	Foul Weather Suits	
<i>b)</i>	it is recommended that a foul weather suit should be fitted with marine-grade retro-reflective material, and should have high-visibility colours on its upper parts and sleeve cuffs.See OSR 4.18	**
	ON 6 - TRAINING	
6.04	Routine Training On-Board	**
	It is recommended that crews should practice safety routines at reasonable intervals including the drill for man-overboard recovery	**
6.05.3	At least one member of the crew shall be familiar with First Aid procedures, hypothermia, drowning, cardio-pulmonary resuscitation and relevant communications systems (see OSR 6.02.7 and 6.03.3).	MoMu3,4
6.05.4	An example model first aid training course is included in Appendix N.	**

APPENDICES TO SPECIAL REGULATIONS

- Appendix B A guide to ISO and other Standards
- Appendix C Standard Inspection Card

- Appendix D Quickstop & Lifesling Appendix E Hypothermia Appendix F Drogues and sea anchors
- Appendix K Moveable and Variable Ballast

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