ISAF OFFSHORE SPECIAL REGULATIONS

JANUARY 2014 - DECEMBER 2015 www.sailing.org/specialregs

ISAF INTERNATIONAL CLASS

Extract for Race Category 3 Monohulls

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Version 1_2 - 2014

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 2014

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 Us	se	
1.01.1	It is the purpose of	of these Special Regulations to establish uniform minimum nmodation and training standards for monohull and multihull	**
	yachts racing offs	hore. A Proa is excluded from these regulations.	
1.01.2	requirements of g	gulations do not replace, but rather supplement, the povernmental authority, the Racing Rules and the rules of Class Rating Systems. The attention of persons in charge is called to	**
		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 suit	table for the type of race to be sailed.	
1.02		of Person in Charge	
1.02.1		yacht and her crew is the sole and inescapable	**
		f the person in charge who must do his best to ensure	
		s fully found, thoroughly seaworthy and manned by an	
	_	w who have undergone appropriate training and are	
		face bad weather. He must be satisfied as to the	
		ull, spars, rigging, sails and all gear. He must ensure that	
		ment is properly maintained and stowed and that the	
		ere it is kept and how it is to be used. He shall also	
	-	son to take over the responsibilities of the Person in	
1.02.2	_	vent of his incapacitation.	**
1.02.2		lishment of these Special Regulations, their use by race be inspection of a yacht under these Special Regulations in any	
		ices the complete and unlimited responsibility of the person in	
	charge.	ices the complete and diffinited responsibility of the person in	
1.02.3		e -The responsibility for a yacht's decision to participate	**
1.02.5		continue racing is hers alone - RRS Fundamental Rule 4.	
1.03		previations, Word Usage	
1.03.1	-	ms used in this document	**
110011	TABLE 1	me abou in the aboundite	
	Age Date	Month/year of first launch	
	AÏS	Automatic Identification Systems	
	CEN	Comité Européen de Normalisation	
	CPR	Cardio-Pulmonary Resuscitation	
	Coaming	Includes the transverse after limit of the cockpit over which w	ater
	_	would run in the event that when the yacht is floating level th	e
		cockpit is flooded or filled to overflowing.	
	DSC	Digital Selective Calling	
	EN	European Norm	
	EPFS	Electronic Position-Fixing System	
	EPIRB	Emergency Position-Indicating Radio Beacon	
	FA Station	The transverse station at which the upper corner of the transc	om
	Faul Masthau	meets the sheerline.	
	Foul-Weather	A foul weather suit is clothing designed to keep the wearer dr	У
	Suit	and maybe either a jacket and trousers worn together, or a	
	GMDSS	single garment comprising jacket and trousers. Global Maritime Distress & Safety System	
	GNSS	Global Navigation Satellite System	
	GPIRB	EPIRB, with integral GPS position-fixing	
	ITU	International Telecommunications Union	
	GPS	Global Positioning System	
	Hatch	The term hatch includes the entire hatch assembly and also the	ne lid
	Hacer	or cover as part of that assembly (the part itself may be described)	
		as a hatch).	

This is Inmarsat Global Limited, the private company that provides

INMARSAT

GMDSS satellite distress and safety communications, plus general

communications via voice, fax and data International Maritime Organisation

IMSO The 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 IMO

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 Means the item is effectively built-in by e.g. bolting, welding, Installed 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 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.

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

permissive.

IMO

1.03.3 The word "yacht" shall be taken as fully interchangeable with the word "boat".

SECTION 2 - APPLICATION & GENERAL REQUIREMENTS

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: 2.01.4 Category 3 Races across open water, most of which is relatively protected or close to MoMu,3 shorelines. 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. **General Requirements** 2.03 All equipment required by Special Regulations shall:-2.03.1 function properly ** a) b) be regularly checked, cleaned and serviced ** when not in use be stowed in conditions in which deterioration is minimised c) d) be readily accessible ** ** be of a type, size and capacity suitable and adequate for the intended use and e) size of the yacht. 2.03.2 Heavy items: ballast, ballast tanks and associated equipment shall be permanently installed ** a) ** heavy movable items including e.g. batteries, stoves, gas bottles, tanks, b) toolboxes and anchors and chain shall be securely fastened heavy items for which fixing is not specified in Special Regulations shall be c) permanently installed or securely fastened, as appropriate ** 2.03.3 When to show navigation lights navigation lights (OSR 3.27) shall be shown as required by the International a) Regulations for Preventing Collision at Sea, (Part C and Technical Annex 1). All yachts shall exhibit sidelights and a sternlight at the required times.

SECTION 3 - STRUCTURAL FEATURES, STABILITY, FIXED EOUIPMENT

— ~ -		
3.01	Strength of Build, Ballast and Rig	
	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 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 which shall comply with OSR 3.02.2. Access points in the watertight enclosure for control and actuation systems or any other purpose shall comply with OSR 3.02.1.	**
3.02.4	Moveable ballast systems shall be fitted with a manual control and actuation 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	5 Regular inspection of the keel and keel/hull attachment structure are strongly 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
I	3.04.3	Yachts shall demonstrate compliance with ISO 12217-2*, either by EC	Mo0,1,2,3
	3.0 1.3	Recreational Craft Directive certification (having obtained the CE mark) or the	1100/1/2/3
		designer's declaration, for the race categories as follows:	
	3.04.3	Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or	Extract Mo3
		higher, either by EC Recreational Craft Directive certification (having obtained the	
		CE mark) or the designer's declaration.	
	_	* The latest effective version of ISO 12217-2 should be used unless the yacht	
		was already designed to a previous version	
	3.04.4	For yachts which cannot demonstrate compliance in accordance with 3.04.3, a	Mo0,1,2,3
		yacht shall provide, as specified by the race organiser, either:	
	a)	the stability index/AVS in ORC Rating System of not less than 103; or	Extract Mo3
	b)	IRC SSS Base value of not less than 15; or	Extract Mo3
	c)	a minimum STIX value of 23 and AVS not less than 130 - 0.005*m (Where "m" is	Extract Mo3
		the mass of the boat in the minimum operating condition as defined by ISO	
	2046	12217-2.)	14-01221
	3.04.6	Use of the ISO or any other index does not guarantee total safety or total freedom of risk from capsize or sinking.	Mo0,1,2,3,4
	3.04.7	For boats with moveable or variable ballast the method in OSR 3.04.4 shall apply	Mo0,1,2,3,4
	J.UT./	plus the relevant additional requirement of OSR Appendix K.	1100,1,2,3,7
	3.04.8	Tanks for variable ballast shall be permanently installed and shall be provided	Mo0,1,2,3,4
	3.0 1.0	with a system of isolating valves and pump(s) capable of manual operation at any	1100,1,2,3,1
		angle of heel. A plan of the plumbing system shall be displayed aboard the boat.	
I	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	Mo0,1,2,3,4
		1995 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	
	2.06.2	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	
		o. Tome. The difference independent of allow for a southin didfference	

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

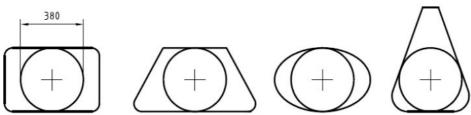


Figure 1 - Measurements of Minimum Clear Opening

circle to be inscribed.

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 batch forward of the maximum beam station, other than a batch in the side of	**
3.08.1	No hatch forward of the maximum beam station, other than a hatch in the side of 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)	A hatch shall be: so arranged as to be above the water when the hull is heeled 90 degrees. Hatches 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).	Mo0,1,2,3,4
b)	permanently attached	**
c)	capable of being firmly shut immediately and remaining firmly shut in a 180 degree capsize (inversion)	**
3.08.4 a)	A companionway hatch shall: be fitted with a strong securing arrangement which shall be operable from the exterior and interior including when the yacht is inverted	**
b)	have any blocking devices:	**
i	capable of being retained in position with the hatch open or shut	**
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	**
iii	permit exit in the event of inversion	**
3.08.5	If the companionway extends below the local sheerline and the boat has a cockpit opening aft to the sea the boat shall comply with one of the following:	
a)	the companionway sill shall not extend below the local sheerline. Or	Mo0,1,2,3,4
b) 3.08.6	be in full compliance with all aspects of ISO 11812 to design category A For boats with a cockpit closed aft to the sea where the companionway hatch 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	Mo0,1,2,3,4 Mo0,1,2,3,4
3.09 3.09.1	Cockpits - Attention is Drawn to ISO 11812 Cockpits shall be structurally strong, self-draining quickly by gravity at all angles	**
3.09.1	of heel and permanently incorporated as an integral part of the hull. Cockpits must be essentially watertight, that is, all openings to the hull must be	**
3.09.3	capable of being strongly and rigidly secured 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 3.09.5	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) 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.	TT
3.09.7	Cockpit Volume earliest of age or series date before April 1992	
i)	the total volume of all cockpits below lowest coamings shall not exceed 9% (LWL x maximum beam x freeboard abreast the cockpit).	Extract 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 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	Extract **
	IMS-rated boats may instead of the terms LWL, maximum beam, freeboard abreast the cockpit, use the IMS terms L, B and FA.	Extract **
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 (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 20mm diameter ($3/4$ inch) unobstructed openings or equivalent	**
3.10	Sea Cocks or Valves 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	
	Sheet winches shall be mounted in such a way that an operator is not required to be substantially below deck.	**
3.12	Mast Step	
	The heel of a keel stepped mast 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:	**
a)	When a deflecting force of 4 kg/f (39.2 N) is applied to a lifeline midway between 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	
LA	that are aft of the mast.	**
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 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. 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)	Mo0,1,2,3,4

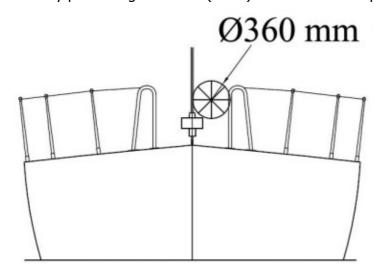


Figure 2 - Diagram Showing Pulpit Opening

b) a stern pulpit, or lifelines arranged as an adequate substitute, with vertical Mo0,1,2,3,4 openings conforming to Table 7

**

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 2.20m (86.6") and shall not pass outboard of supporting stanchions	
d)	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.	**
l)	Stanchions shall be straight and vertical except that:-	**
i	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.	**
m)	It is strongly recommended that designs also comply to ISO 15085	**
3.14.5	Lifeline Height, Vertical Openings, Number of Lifelines	

3.14.5 Lifeline Height, Vertical Openings, Number of Lifelines

TABLE 7

LOA	earliest of	minimum requirements	Category
	age/seriesdate		
under 8.5	before January	single lifeline at a height of no less than 450	**
m(28 ft)	1992	mm (18 in) above the working deck. No vertical	
		opening shall exceed 560 mm (22 in).	
under 8.5	January 1992	as for under 8.5 m(28 ft) in table 7 above,	**
m(28 ft)	and after	except that when an intermediate lifeline is	
		fitted no vertical opening shall exceed 380 mm	
		(15 in).	
8.5 m (28	before January	double lifeline with upper lifeline at a height of	**
ft) and	1993	no less than 600 mm (24 in) above the working	
over		deck. No vertical opening shall exceed 560 mm	
		(22 in)	
8.5 m (28	January 1993	as 8.5 m (28 ft) and over in Table 7 above,	**
ft)and	and after	except that no vertical opening shall exceed	
over		380 mm (15 in).	
all	all	on yachts with intermediate lifelines the	**
		intermediate line shall be not less than 230 mm	
		(9 in) above the working deck.	

3.14.6 Lifeline Minimum Diameters, Required Materials, Specifications a) Lifelines shall be of:

_			ess steel wire or			**
		_		PE) (Dyneema®/Spectra® o	r equivalent)	**
	rope (Braid on braid i	is recommended)			
b)	The m	ninimum diamet	er is specified in t	table 8 below.		**
c)	Stainle	ess steel lifeline	s shall be uncoate	ed and used without close-fit	ting sleeving,	**
	howev	er, temporary s	sleeving may be f	itted provided it is regularly r	emoved for	
	inspection.					
d)	When stainless wire is used, Grade 316 is recommended.					**
e)			•	s used, it shall be spliced in	accordance	**
٠,	with the manufacturer's recommended procedures.				20001 GG1100	
f)	A taut lanyard of synthetic rope may be used to secure lifelines provided the gap			**		
1)						
	it closes does not exceed 100 mm (4 in). This lanyard shall be replaced annually at a minimum.					
۵۱			orago points fixt	ruras and lanvards shall same	rico a lifolina	**
g)				tures and lanyards shall comp		11-11-
		=	ich nas at all poin	ts at least the breaking stren	gth of the	
_		ed lifeline wire.				ded
		8 - Minimum [1	**
	LOA		wire	HMPE rope (Single braid)	HMPE Core (B	
	unde	r 8.5m (28ft)	3mm (1/8 in)	4mm (5/32 in)	4mm (5/32 in)	
	8.5m	ı - 13m	4mm (5/32 in)	5mm (3/16 in)	5mm (3/16 in)	
	over	13m (43 ft)	5mm (3/16in)	5mm (3/16in)	5mm (3/16in)	
3.17		Rail or Foot - S	Stop			Mo0,1,2,3
3.17.1			•	1 in) shall be permanently ins	talled around	Mo0,1,2,3
0.1				xcept in way of fittings and n		
			-	deck than one third of the loa		
3.17.2		_	ons shall apply:-	desix than one time or the lov	ar rian bearin	Mo0,1,2,3
3.17.12	TABLE	_	mo shan appry.			Mo0,1,2,3
		Earliest of Age	e minimum rec	ujrements		1100,1,2,3
	LOA	or Series Date		quirements		
	anv	before Januar		nimum height of 20 mm (3/4	in) is accentable	1
	any	1981	y a toe raii iiiii	illidin neight of 20 min (3/4	iii) is acceptable	
	201/	before Januar	v an additional	lifeline of minimum height 2	5 mm (1 in) and	l mavimum
	any		•	5	` ,	
		1994	_	n (2 in) is acceptable in lieu (n a toe ran (but	SHall HOL
		January 1004		ntermediate lifeline).	tiaabla ta tha wa	عم مناح مح
	any	January 1994		hall be fitted as close as prac		
2.40		and after	stanchion ba	ses but not further inboard th	ian 1/3 the loca	ı naır-beam.
3.18	Toile					
3.18.2		•	installed or fitted	bucket		MoMu3,4
3.19	Bunk					
3.19.2		, permanently i	nstalled			**
3.20		ing Facilities				
3.20.1		•	-	l or securely fastened with sa		MoMu0,1,2,3
			-	ng safely operated in a seawa	ay.	
3.21	Drink	ing Water Tai	nks & Drinking	Water		MoMu0,1,2,3
3.21.1	Drink	ing Water Tai	nks			MoMu0,1,2,3
a)	A yacł	nt shall have a լ	permanently insta	illed delivery pump and water	tank(s):	MoMu0,1,2,3
3.21.3	Emer	gency Drinkin	ıg Water			MoMu0,1,2,3
a)	At leas	st 9 litres (2 UK	gallons, 2.4 US	gallons) of drinking water for	emergency	MoMu1,2,3
-		•		nd sealed container or contain		
3.22	Hand	Holds			. ,	
			shall be fitted be	low deck so that crew memb	ers may move	**
	-	safely at sea.			,	
		•	e capable of with	estanding without rupture a si	ide force of	
			drawn to ISO 150			
3.23		Pumps and B				
3.23.1	_	-		ockpit unless that cockpit ope	ns aft to the	**
5.25.1	sea.	go pamp may u		complete and complete ope	are to the	
3.23.2		numne chall not	he connected to	cockpit drains. (OSR 3.09)		**
J.∠J.∠	pliac b	שווווף אוומוו ווטנ	. De connecteu to	cockbir arallis: (OSK 3:03)		

3.23.3	Bilge pumps and strum b	**	
3.23.4	clearing out debris Unless permanently insta lanyard or catch or simila	**	
3.23.5 d)	The following shall be pro at least one permanently seats, hatches and comp	Мо3	
f)	two buckets of stout cons gallons) capacity. Each b	struction each with at least 9 litres (2 UK gallons, 2.4 US	**
3.24	Compass		
3.24.1	The following shall be pro	ovided:- ass, independent of any power supply, permanently	**
a)		justed with deviation card, and	
b)	a magnetic compass inde a steering compass which	pendent of any power supply, capable of being used as	MoMu0,1,2,3
3.25	Halyards.		dada
2 27		han two halyards, each capable of hoisting a sail.	**
3.27 3.27.1	Navigation Lights (see	mounted so that they will not be masked by sails or the	**
J.Z/.1	heeling of the yacht.	modified so that they will not be masked by sails of the	
3.27.2	,	t be mounted below deck level and should be at no less under the upper lifeline.	**
3.27.3	Navigation light intensity		
	TABLE 11	Cuido to required minimum newer rating for an	
	LOA	Guide to required minimum power rating for an electric bulb in a navigation light	
	under 12 m (39.4 ft)	10 W	
	12 m (39.4 ft) and above	25 W	
3.27.4		shall be carried having the same minimum specifications	MoMu0,1,2,3
	as the navigation lights above, with a separable power source, and wiring or		
	supply system essentially separate from that used for the normal navigation lights		
3.27.5	supply system essentially spare bulbs for navigation	separate from that used for the normal navigation lights n lights shall be carried, or for lights not dependent on	**
	supply system essentially spare bulbs for navigation bulbs, appropriate spares	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on s.	**
3.28	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, F	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on s.	**
3.28 3.28.1	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, F Propulsion Engines	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on s. Fuel	
3.28	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, F Propulsion Engines Engines and associated s	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on s.	**
3.28 3.28.1	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Foroulsion Engines Engines and associated smanufacturers' guidelines	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their	**
3.28 3.28.1	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, For Propulsion Engines Engines and associated smanufacturers' guidelines installation suitable for the An inboard propulsion en	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their is and shall be of a type, strength, capacity, and he size and intended use of the yacht. gine when fitted shall: be provided with a permanently	**
3.28 3.28.1 a)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Foropulsion Engines Engines and associated smanufacturers' guidelines installation suitable for the An inboard propulsion en installed exhaust, coolant	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their is and shall be of a type, strength, capacity, and he size and intended use of the yacht. gine when fitted shall: be provided with a permanently it, and fuel supply systems and fuel tank(s); be securely	** **
3.28 3.28.1 a) b)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Forpulsion Engines Engines and associated simulation suitable for the An inboard propulsion en installed exhaust, coolant covered; and have adequated	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their is and shall be of a type, strength, capacity, and he size and intended use of the yacht. gine when fitted shall: be provided with a permanently it, and fuel supply systems and fuel tank(s); be securely late protection from the effects of heavy weather.	** ** **
3.28 3.28.1 a)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, F Propulsion Engines Engines and associated smanufacturers' guidelines installation suitable for the An inboard propulsion en installed exhaust, coolant covered; and have adequated A propulsion engine requision engine requisions of (1.8 x s)	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their is and shall be of a type, strength, capacity, and he size and intended use of the yacht. gine when fitted shall: be provided with a permanently it, and fuel supply systems and fuel tank(s); be securely	** **
3.28 3.28.1 a) b)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Formulsion Engines Engines and associated simulation suitable for the An inboard propulsion en installed exhaust, coolant covered; and have adequated A propulsion engine requision speed in knots of (1.8 x s feet)	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their sand shall be of a type, strength, capacity, and he size and intended use of the yacht. If you when fitted shall: be provided with a permanently state protection from the effects of heavy weather. If you were protected in metres and fuel transfer a minimum square root of LWL in metres or (square root of LWL in metres).	** ** MoMu0,1,2,3
3.28 3.28.1 a) b)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, F Propulsion Engines Engines and associated simulation suitable for the An inboard propulsion eninstalled exhaust, coolant covered; and have adequated A propulsion engine requision speed in knots of (1.8 x s feet) A propulsion engine shall	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their is and shall be of a type, strength, capacity, and it is esize and intended use of the yacht. It is gine when fitted shall: be provided with a permanently it, and fuel supply systems and fuel tank(s); be securely late protection from the effects of heavy weather. It is provided a minimum square root of LWL in metres) or (square root of LWL in be provided either as an inboard propulsive engine or as	** ** **
3.28 3.28.1 a) b)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, F Propulsion Engines Engines and associated simulation suitable for the An inboard propulsion eninstalled exhaust, coolant covered; and have adequated A propulsion engine requision speed in knots of (1.8 x s feet) A propulsion engine shall	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their sand shall be of a type, strength, capacity, and he size and intended use of the yacht. If you when fitted shall: be provided with a permanently state protection from the effects of heavy weather. If you were protected in metres and fuel transfer a minimum square root of LWL in metres or (square root of LWL in metres).	** ** MoMu0,1,2,3
3.28 3.28.1 a) b)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Forpulsion Engines Engines and associated simulation suitable for the An inboard propulsion en installed exhaust, coolant covered; and have adequated A propulsion engine requision engine requision engine requision engine shall an outboard engine with fastened. Generator	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on security. Sevel Systems shall be installed in accordance with their sand shall be of a type, strength, capacity, and he size and intended use of the yacht. In gine when fitted shall: be provided with a permanently strength, and fuel supply systems and fuel tank(s); be securely late protection from the effects of heavy weather. It is intended by Special Regulations shall provide a minimum square root of LWL in metres) or (square root of LWL in be provided either as an inboard propulsive engine or as associated tanks and fuel supply systems, all securely	** ** MoMu0,1,2,3 Mo3
3.28 3.28.1 a) b) c)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Foropulsion Engines Engines and associated significant manufacturers' guidelines installation suitable for the An inboard propulsion eninstalled exhaust, coolant covered; and have adequated A propulsion engine requision engine requision speed in knots of (1.8 x series) A propulsion engine shall an outboard engine with fastened. Generator A separate generator for	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their and shall be of a type, strength, capacity, and it is size and intended use of the yacht. It is gine when fitted shall: be provided with a permanently it, and fuel supply systems and fuel tank(s); be securely late protection from the effects of heavy weather. It is provided a minimum square root of LWL in metres) or (square root of LWL in be provided either as an inboard propulsive engine or as associated tanks and fuel supply systems, all securely electricity is optional. However, when a separate	** ** MoMu0,1,2,3
3.28 3.28.1 a) b) c)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, FPropulsion Engines Engines and associated smanufacturers' guidelines installation suitable for the An inboard propulsion en installed exhaust, coolant covered; and have adequed a propulsion engine requision engine requision speed in knots of (1.8 x s feet) A propulsion engine shall an outboard engine with fastened. Generator A separate generator for generator is carried it shall	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their and shall be of a type, strength, capacity, and it is size and intended use of the yacht. It is gine when fitted shall: be provided with a permanently it, and fuel supply systems and fuel tank(s); be securely late protection from the effects of heavy weather. It is provided a minimum square root of LWL in metres) or (square root of LWL in be provided either as an inboard propulsive engine or as associated tanks and fuel supply systems, all securely electricity is optional. However, when a separate all be permanently installed, securely covered, and shall	** ** MoMu0,1,2,3 Mo3
3.28 3.28.1 a) b) c)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Forpulsion Engines Engines and associated significant manufacturers' guidelines installation suitable for the An inboard propulsion eninstalled exhaust, coolant covered; and have adequated A propulsion engine requision engine requision engine requision engine shall an outboard engine with fastened. Generator A separate generator for generator is carried it shall have permanently installed.	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their is and shall be of a type, strength, capacity, and it is size and intended use of the yacht. It is gine when fitted shall: be provided with a permanently is, and fuel supply systems and fuel tank(s); be securely interpretection from the effects of heavy weather. It is it is provided a minimum is guare root of LWL in metres) or (square root of LWL in it is be provided either as an inboard propulsive engine or as associated tanks and fuel supply systems, all securely electricity is optional. However, when a separate all be permanently installed, securely covered, and shall end exhaust, cooling and fuel supply systems and fuel	** ** MoMu0,1,2,3 Mo3
3.28 3.28.1 a) b) c)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Forpulsion Engines Engines and associated significant manufacturers' guidelines installation suitable for the An inboard propulsion eninstalled exhaust, coolant covered; and have adequated A propulsion engine requision engine requision engine requision engine shall an outboard engine with fastened. Generator A separate generator for generator is carried it shall have permanently installed.	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their and shall be of a type, strength, capacity, and it is size and intended use of the yacht. It is gine when fitted shall: be provided with a permanently it, and fuel supply systems and fuel tank(s); be securely late protection from the effects of heavy weather. It is provided a minimum square root of LWL in metres) or (square root of LWL in be provided either as an inboard propulsive engine or as associated tanks and fuel supply systems, all securely electricity is optional. However, when a separate all be permanently installed, securely covered, and shall	** ** MoMu0,1,2,3 Mo3
3.28 3.28.1 a) b) c) d)	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Forpulsion Engines Engines and associated significant manufacturers' guidelines installation suitable for the An inboard propulsion eninstalled exhaust, coolant covered; and have adequated A propulsion engine requision engine requision engine requision engine shall an outboard engine with fastened. Generator A separate generator for generator is carried it shall have permanently installed tank(s), and have adequated Fuel Systems Each fuel tank provided with the spare of the systems.	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their sand shall be of a type, strength, capacity, and se size and intended use of the yacht. gine when fitted shall: be provided with a permanently rate protection from the effects of heavy weather. sired by Special Regulations shall provide a minimum square root of LWL in metres) or (square root of LWL in be provided either as an inboard propulsive engine or as associated tanks and fuel supply systems, all securely electricity is optional. However, when a separate all be permanently installed, securely covered, and shall are exhaust, cooling and fuel supply systems and fuel are protection from the effects of heavy weather.	** ** MoMu0,1,2,3 Mo3
3.28 3.28.1 a) b) c) d) 3.28.2	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Propulsion Engines Engines and associated smanufacturers' guidelines installation suitable for the An inboard propulsion en installed exhaust, coolant covered; and have adequated A propulsion engine requision engine requision engine requision engine requision engine shall an outboard engine with fastened. Generator A separate generator for generator is carried it shall tank permanently installed tank(s), and have adequated Fuel Systems Each fuel tank provided withings or liners, a flexible	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their and shall be of a type, strength, capacity, and it is size and intended use of the yacht. It is gine when fitted shall: be provided with a permanently and fuel supply systems and fuel tank(s); be securely listed by Special Regulations shall provide a minimum acquare root of LWL in metres) or (square root of LWL in be provided either as an inboard propulsive engine or as associated tanks and fuel supply systems, all securely electricity is optional. However, when a separate all be permanently installed, securely covered, and shall end exhaust, cooling and fuel supply systems and fuel are protection from the effects of heavy weather. With a shutoff valve. Except for permanently installed at tank is not permitted as a fuel tank.	** ** MoMu0,1,2,3 Mo3 **
3.28 3.28.1 a) b) c) d) 3.28.2	supply system essentially spare bulbs for navigation bulbs, appropriate spares Engines, Generators, Foropulsion Engines Engines and associated signification suitable for the An inboard propulsion en installed exhaust, coolant covered; and have adequated A propulsion engine requision engine requision engine requision engine shall an outboard engine with fastened. Generator A separate generator for generator is carried it shall have permanently installed tank(s), and have adequated Fuel Systems Each fuel tank provided withings or liners, a flexible The propulsion engine shall and some sequences.	separate from that used for the normal navigation lights in lights shall be carried, or for lights not dependent on it. Fuel ystems shall be installed in accordance with their sand shall be of a type, strength, capacity, and se size and intended use of the yacht. gine when fitted shall: be provided with a permanently rate protection from the effects of heavy weather. sired by Special Regulations shall provide a minimum square root of LWL in metres) or (square root of LWL in be provided either as an inboard propulsive engine or as associated tanks and fuel supply systems, all securely electricity is optional. However, when a separate all be permanently installed, securely covered, and shall are exhaust, cooling and fuel supply systems and fuel are protection from the effects of heavy weather.	** ** MoMu0,1,2,3 Mo3 **

	charging requirements for the duration of the race and to motor at the above minimum speed for at least 8 hours	
3.28.4	Battery Systems	
a)	When an electric starter is the only method for starting the engine, the yacht	MoMu0,1,2,3
b)	shall have a separate battery, the primary purpose of which is to start the engine All rechargeable batteries on board shall be of the sealed type from which liquid electrolyte cannot escape. Other types of battery installed on board at 1/12 may	MoMu0,1,2,3
	continue in use for the remainder of their service lives.	alle alle
3.29	Communications Equipment, EPFS (Electronic Position-Fixing System),	**
	Radar, AIS Provision of GMDSS is unlikely to be mandatory for small craft during the term of	$M_0M_{\odot}0.1.2.2$
	the present Special Regulations.	MoMu0,1,2,3
3.29.1	The following shall be provided:	**
a)	A marine radio transceiver (or if stated in the Notice of Race, an installed satcom	MoMu0,1,2,3
u,	terminal), and	1101100/1/2/3
i	an emergency antenna when the regular antenna depends upon the mast.	MoMu0,1,2,3
b)	When the marine radio transceiver is VHF:	MoMu0,1,2,2
i	it shall have a rated output power of 25W	MoMu0,1,2,3
ii	it shall have a masthead antenna, and co-axial feeder cable with not more than	MoMu0,1,2,3
	40% power loss	
iii	the following types and lengths of co-axial feeder cable will meet the requirements of OSR 3.29.1 (b)(ii): (a) up to 15m (50ft) - type RG8X ("mini 8"); (b) 15-28m (50-90ft) - type RG8U; (c) 28-43m (90-140ft) - type 9913F (uses conventional connectors, available from US supplier Belden); (d) 43-70m) 140-230ft - type LMR600 (uses special connectors, available from US supplier Times Microwave).	<i>MoMu0,1,2,3</i>
iv	it should include channel 72 (an international ship-ship channel which, by common use, has become widely accepted as primary choice for ocean racing yachts anywhere in the world)	MoMu0,1,2,3
V	VHF transceivers installed after 31 December 2015 shall be DSC capable	MoMu1,2,3
vi	DSC capable VHF transceivers shall be programmed with an assigned MMSI (unique to the boat), be connected to a GPS receiver and be capable of making distress alert calls as well as sending and receiving a DSC position report with another DSC equipped station	MoMu1,2,3
e)	A hand-held marine VHF transceiver, watertight or with a waterproof cover. When not in use to be stowed in a grab bag or emergency container (see OSR 4.21) The handheld receiver should have Digital Selective Calling (DSC) and be equipped with GPS.	MoMu1,2,3,4
f)	Independent of a main radio transceiver, a radio receiver capable of receiving weather bulletins	**
i)	An EPFS (Electronic Position-Fixing System) (e.g. GPS)	MoMu0,1,2,3
0)	An AIS Transponder is recommended	МоМиЗ
3.29.2	Yachts are reminded that no reflector, active or passive, is a guarantee of	**

charging requirements for the duration of the race and to motor at the above

SECTION 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht

**

**

(for water & fuel see OSR 3.21 and OSR 3.28) 4.01 Sail Letters & Numbers 4.01 Vachts which are not in an ISAE International Class or Recognized Class shall

The attention of persons in charge is drawn to legislation in force or imminent

is or will be mandatory for certain vessels including relatively small craft.

affecting the territorial seas of some countries in which the carriage of an AIS set

4.01.1 Yachts which are not in an ISAF International Class or Recognized Class shall comply with RRS 77 and Appendix G as closely as possible, except that sail numbers allotted by a State authority are acceptable.

detection or tracking by a vessel using radar.

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

a)

Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed

adjacent to the appropriate fitting for every through-hull opening. 4.04 **Jackstays, Clipping Points and Static Safety Lines** Jackstavs shall be provided-4.04.1 MoMu0,1,2,3 attached to through-bolted or welded deck plates or other suitable and strong MoMu0,1,2,3 a) anchorage fitted on deck, port and starboard of the yacht's centre line to provide secure attachments for safety harness:comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in), high b) MoMu0,1,2,3 modulus polyethylene (such as Dyneema/Spectra) rope or webbing of equivalent strength; which, when made from stainless steel wire shall be uncoated and used without c) MoMu0,1,2,3 any sleeving; 20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended; d) MoMu0,1,2,3 4.04.2 **Clipping Points:**shall be providedattached to through-bolted or welded deck plates or other suitable and strong MoMu0,1,2,3 a) anchorage points adjacent to stations such as the helm, sheet winches and masts, where crew members work for long periods:which, together with jackstays and static safety lines shall enable a crew b) MoMu0,1,2,3 memberto clip on before coming on deck and unclip after going below; i MoMu0,1,2,3 ii whilst continuously clipped on, to move readily between the working areas on MoMu0,1,2,3 deck and the cockpit(s) with the minimum of clipping and unclipping operations. The provision of clipping points shall enable two-thirds of the crew to be c) MoMu0,1,2,3 simultaneously clipped on without depending on jackstays e) Warning - U-bolts as clipping points - see OSR 5.02.1(a) MoMu0,1,2,3 4.05 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 4.05.2 Fire Extinguishers, at least two, of minimum 2kgs each of dry powder or MoMu0,1,2,3 4.05.4 A fire blanket adjacent to every cooking device with an open flame ** 4.06 Anchor(s) ** An anchor or anchors shall be carried according to the table below: 4.06.1 The following anchors shall be provided a) For yachts of 8.5 m LOA (28 ft) and over there shall be 2 anchors together with a i MoMu1,2,3 suitable combination of chain and rope, all ready for immediate use For yachts under 8.5 m LOA (28 ft) there shall be 1 anchor together with a ii MoMu1,2,3 suitable combination of chain and rope, all ready for immediate use Flashlight(s) and Searchlight(s) 4.07 4.07.1 The following shall be provided:-** A watertight, high-powered searchlight, suitable for searching for a person a) 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 In the absence of a National Authority's requirement, the latest edition of one of ** the following is recommended:-First Aid at Sea, by Douglas Justins and Colin Berry, published by Adlard Coles b) MoMu2,3,4 Nautical, London ** c) Le Guide de la medecine a distance, by Docteur J Y Chauve, published by Distance Assistance BP33 F-La Baule, cedex, France. d) 'PAN-PAN medico a bordo' in Italian edited by Umberto Verna. www.panpan.it MoMu2,3,4 Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr Campbell ** e) Mackenzie www.msos.org.uk 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 Manual carried, the likely conditions and duration of the passage, and the number

of people aboard the yacht.

4.09	Foghorn			
	A foghorn shall be provided			**
_4.10	Radar Reflector			
4.10.1	An octahedral passive radar ref minimum diameter 30 cm (12") Cross Section (RCS) area of 2 n	or a reflector with a docur		**
4.11	Navigation Equipment Charts			
4.11.1	Navigational charts (not solely electronic), light list and chart plotting equipment shall be provided			**
4.12	Safety Equipment Location Chart 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 location of principal items of safety equipment.			**
4.13	Echo Sounder or Lead Line			
4.13.1	An echo sounder or lead line sh	-	_	MoMu1,2,3,4
4.14	Speedometer or Distance M			
4 1 5	A speedometer or distance mea	isuring instrument (log) sh	all be provided	MoMu0,1,2,3
4.15 4.15.1	Emergency Steering Emergency steering shall be pro	avided as follows:		
a)	except when the principal meth	od of steering is by means		MoMu0,1,2,3
b)	metal tiller, an emergency tiller capable of being fitted to the rudder stock; crews must be aware of alternative methods of steering the yacht in any sea condition in the event of rudder loss. At least one method must have been proven to work on board the yacht. An inspector may require that this method be			MoMu0,1,2,3
4 4 6	demonstrated.			
4.16	Tools and Spare Parts 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	,		
	Yacht's name shall be on misce cushions, lifebuoys, lifeslings, g		nt, such as lifejackets,	**
4.18	Marine grade retro-reflective	e material		
	Marine grade retro-reflective ma liferafts and lifejackets. See OSI		buoys, lifeslings,	**
4.22	Lifebuoys			
4.22.1	The following shall be provided instant use:		man and ready for	**
a)	a lifebuoy with a self-igniting lig			**
4.22.3	Each inflatable lifebuoy and any	`	,	**
	compressed gas) shall be tested	and serviced at intervals	in accordance with its	
4 22 4	manufacturer's instructions.	a fittad with maning and	water wallastive material	**
4.22.4	Each lifebuoy or lifesling shall b	e ritted with marine grade	retro-reflective material	ጥጥ
4.22.5	(4.18). It is recommended that the colors are the	our of each lifebuoy be a s	afety colour in the	**
4.23	yellow-red range. Pyrotechnic and Light Signa	ala.		
4.23 4.23.1	Pyrotechnic signals shall be pro		S I SA Code Chanter III	**
T. ∠J. I	Visual Signals and not older tha	_	•	
	date stamped , not older than 4		(ii dily) oi ii ilo expiry	
	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

red paracridite riares LSA III	Teu Hanu Hares 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

a heaving line shall be provided 15 m - 25 m (50 ft - 75 ft) length readily a) accessible to cockpit. ** the "throwing sock" type is recommended - see Appendix D b) c) A lifesling shall be provided MoMu0,1,2,3 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 it is strongly recommended that persons in charge consult their ** a) 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 ** Every storm jib shall either be of highly-visible coloured material (e.g. dayglo a) 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. **Materials** 4.26.3 aromatic polyamides, carbon and similar fibres shall not be used in a trysail or a) storm jib but spectra/dyneema and similar materials are permitted. ** 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:sheeting positions on deck for each storm and heavy-weather sail; ** a) ** for each storm or heavy-weather jib, a means to attach the luff to the stay, b) 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: $(0.255 \times 1)^*$ To apply to sails made in January 2012 and after. when a storm trysail is required by OSR 4.26.4 (g) it shall be capable of being c) Extract MoMu sheeted independently of the boom with trysail area not greater than 17.5% 3 mainsail hoist (P) luff length x mainsail foot length (E). The storm trysail area shall be measured as (0.5 x leech length x shortest distance between tack point and leech). The storm trysail shall have neither headboard nor battens, however a storm trysail is not required in a yacht with a rotating wing mast which can adequately substitute for a trysail. The method of calculating area applies to sails made in January 2012 and after. if a storm trysail is required by OSR 4.26.4 (g) the yacht's sail number and d) Extract MoMu letter(s) shall be placed on both sides of the trysail (or on a rotating wing mast as 3,4 substitute for a trysail) in as large a size as practicable; ** a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of area f) not greater than 13.5% height of the foretriangle squared; either a storm trysail as defined in OSR 4.26.4(c), or mainsail reefing to reduce g) MoMu3 the luff by at least 40%.

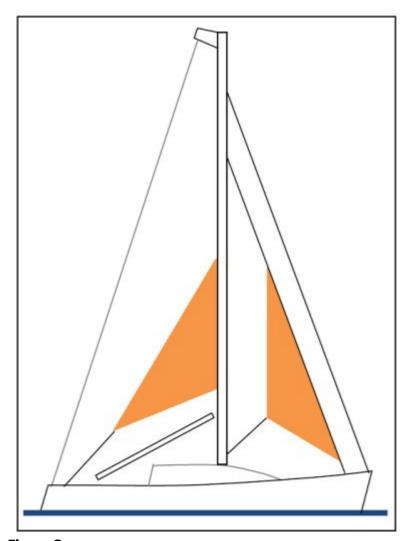


Figure 3

SECTION 5 - PERSONAL EQUIPMENT

5.01	Lifejacket	
5.01.1	Each crew member shall have a lifejacket as follows:-	*
a)		**
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 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.	
b)	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	
c)	fundamental to the lifejacket functioning correctly. 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, clearly marked with the yacht's or wearer's name,	**
g) <i>j)</i>	It is strongly recommended that a lifejacket has a splashguard / sprayhood See ISO 12402 – 8,	MoMu1,2,3,4
5.01.4 5.02	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers)	** MoMu0,1,2,3
5.02.1	Each crew member shall have a harness and safety line that complies with ISO 12401 or equivalent with a safety line not more than 2m in length.	MoMu0,1,2,3
	Harnesses and safety lines manufactured prior to Jan 2010 shall comply with either ISO 12401 or EN 1095.	
a)	Harnesses and safety lines manufactured prior to Jan 2001 are not permitted. Warning it is possible for a plain snaphook to disengage from a U bolt if	MoMu0,1,2,3
uj	the hook is rotated under load at right-angles to the axis of the U-bolt.	1101100/1/2/3
	For this reason the use of snaphooks with positive locking devices is	
	strongly recommended.	
5.02.2	At least 30% of the crew shall each, in addition to the above be provided with either:-	MoMu0,1,2,3
a) b)	a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line	MoMu0,1,2,3 MoMu0,1,2,3
5.02.3	A safety line purchased in January 2001 or later shall have a coloured flag	MoMu0,1,2,3
3.02.3	embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency.	1101100,1,2,3
5.02.4	A crew member's lifejacket and harness shall be compatible	MoMu0,1,2,3
<i>5.02.5</i>	It is strongly recommended that:-	MoMu0,1,2,3
a)	static safety lines should be securely fastened at work stations;	MoMu0,1,2,3
<i>b)</i>	A harness should be fitted with a crotch strap or thigh straps.	MoMu0,1,2,3
c)	to draw attention to wear and damage, stitching on harness and safety lines	MoMu0,1,2,3
d)	should be of a colour contrasting strongly with the surrounding material; snaphooks should be of a type which will not self-release from a U-bolt (see OSR	MoMu0,1,2,3
/	5.02.1(a)) and which can be easily released under load (crew members are reminded that a personal knife may free them from a safety line in emergency);	
e)	a crew member before a race should adjust a harness to fit then retain that	MoMu0,1,2,3
- /	harness for the duration of the race.	, , , -
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	

SECTION 6 - TRAINING

6.04	Routine Training On-Board	**
6.04.1	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,	MoMu3,4
	hypothermia, drowning, cardio-pulmonary resuscitation and relevant	
	communications systems (see OSR 6.02.7 and 6.03.3).	
<i>6.05.4</i>	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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