ISAF OFFSHORE SPECIAL REGULATIONS

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

Extract for Race Category 2 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

JLUI	1011 1 101	NDAMENTAL AND DETINITIONS	
1.01	Purpose and Us	e	
1.01.1	It is the purpose of	of these Special Regulations to establish uniform minimum	**
	• •	nmodation and training standards for monohull and multihull	
		hore. A Proa is excluded from these regulations.	
1.01.2	, -	gulations do not replace, but rather supplement, the	**
1.01.2		overnmental 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		gulations, adopted internationally, are strongly recommended for	**
	use by all organize	ers of offshore races. Race Committees may select the category	
	deemed most suit	able for the type of race to be sailed.	
1.02	Responsibility of	of Person in Charge	
1.02.1	The safety of a	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	
		Ill, spars, rigging, sails and all gear. He must ensure that	
	<i>.</i>	ment is properly maintained and stowed and that the	
		re it is kept and how it is to be used. He shall also	
	nominate a pers	son to take over the responsibilities of the Person in	
	Charge in the ev	vent of his incapacitation.	
1.02.2	Neither the establ	ishment of these Special Regulations, their use by race	**
	organizers, nor th	e inspection of a yacht under these Special Regulations in any	
		ices the complete and unlimited responsibility of the person in	
	charge.	need the complete and animitted responsionity of the person in	
1.02.3		e -The responsibility for a yacht's decision to participate	**
1.02.3			
4 00		ontinue racing is hers alone - RRS Fundamental Rule 4.	
1.03	•	previations, Word Usage	**
1.03.1		ms used in this document	**
	TABLE 1		
	Age Date	Month/year of first launch	
	AIS	Automatic Identification Systems	
	CEN	Comité Européen de Normalisation	
	CPR	Cardio-Pulmonary Resuscitation	
	Coaming	Includes the transverse after limit of the cockpit over which	
	courining	water would run in the event that when the yacht is floating	
		level the cockpit is flooded or filled to overflowing.	
	DCC	·	
	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	
		transom meets the sheerline.	
	Foul-Weather	A foul weather suit is clothing designed to keep the wearer	
	Suit	dry and maybe either a jacket and trousers worn together,	
		or a single garment comprising jacket and trousers.	
	GMDSS	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 lid or cover as part of that assembly (the part itself may	
		be described as a hatch).	
	INMARSAT	This is Inmarsat Global Limited, the private company that	
		i i i i i i i i i i i i i i i i i i i	

provides GMDSS satellite distress and safety communications,

plus general communications via voice, fax and data

IMO 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.

Offshore Racing Congress (formerly Offshore Racing Council)

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.

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

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:	
2.01.3	Category 2	
	Races of extended duration along or not far removed from shorelines or in large	MoMu,2
	unprotected bays or lakes, where a high degree of self-sufficiency is required of	
	the yachts.	
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	**
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:	sle sle
a)	ballast, ballast tanks and associated equipment shall be permanently installed	**
b)	heavy movable items including e.g. batteries, stoves, gas bottles, tanks,	<i>ተ</i> ተ
۵)	toolboxes and anchors and chain shall be securely fastened	**
c)	heavy items for which fixing is not specified in Special Regulations shall be	
2.03.3	permanently installed or securely fastened, as appropriate	**
	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.	
SECTIO	DN 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 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	

3.03 3.03.1	system was capable of securing the keel on the centreline. Hull Construction Standards (Scantlings)	MoMu0,1,2 Mo0,1,2
a)	A yacht of less than 24m in hull length (measured in accordance with ISO 8666) with the earliest of Age or Series Date on or after 1 January 2010 shall have: • been designed, built and maintained in accordance with the requirements of ISO 12215 Category A *	Mo0,1,2
	• on board a certificate of building plan review from a notified body recognized by ISAF.	
b)	 on board a declaration signed and dated by the builder to confirm the yacht is built in accordance with the plans reviewed by the Notified Body. A yacht of 24m in hull length and over (measured in accordance with ISO 8666) with the earliest of Age or Series Date on or after 1 January 2010 shall have: been designed, built and maintained in accordance with the requirements of a Classification Society recognized by ISAF 	Mo0,1,2
	 on board a certificate of building plan review from a Classification Society recognized by ISAF 	
2.02.2	• on board a declaration signed and dated by the builder to confirm the yacht is built in accordance with the plans reviewed by the Classification Society .	
3.03.2 a)	A yacht of less than 24m in hull length (measured in accordance with ISO 8666),	Mo0,1,2 Mo0,1,2
uy	with the earliest of Age or Series Date on or after 1 January 2010, if subject to any significant repair or modification to the hull, deck, coachroof, keel or appendages on or after the 1 January 2010, shall have	1100,1,2
	 the repair or modification designed and built in accordance with ISO 12215 Category A* 	
	on board a certificate of building plan review for the repair or modification from	
	a notified body recognized by ISAFon board a declaration signed and dated by the builder to confirm that the	
	repair or modification is in accordance with the requirements of ISO 12215 Category A *	
b)	A yacht of 24m in hull length and over (measured in accordance with ISO 8666), with the earliest of Age or Series Date on or after 1 January 2010, if subject to any significant repair or modification to the hull, deck, coachroof, keel or appendages on or after the 1 January 2010, shall have	Mo0,1,2
	 the repair or modification designed and built in accordance with the requirements of a Classification Society recognized by ISAF 	
	 on board a certificate of building plan review for the repair or modification from a Classification Society recognized by ISAF 	
	• on board a declaration signed and dated by the builder to confirm that the	
	repair or modification is in accordance with the plans reviewed by the Classification Society.	
3.03.3	In cases when a builder no longer exists a race organizer or class rules may accept a signed statement by a naval architect or other person familiar with the requirements of 3.031 and 3.03.2 above and in lieu of the builders declaration required by 3.031 and 3.03.2 above.	Mo0,1,2
3.03.4	A monohull with the earliest of Age or Series Date before the 1 January 2010 shall comply with 3.03.1, 3.03.2 and 3.03.3 above or with appendix M to these OSR. A multihull shall comply with appendix M to these OSR.	Extract Mo0,1,2
3.03.5	* or as from time to time specified by ISAF Regular inspection of the keel and keel/hull attachment structure are strongly recommended	Mo0,1,2,3,4
3.04	Stability - Monohulls	Mo0,1,2,3,4
3.04.2 3.04.3	A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2*, either by EC	Mo0,1,2,3,4
2.04.3	Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration, for the race categories as follows:	Mo0,1,2,3
3.04.3	Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the	Extract Mo0,1,2

I	CE mark) or the designer's declaration.	
	* The latest effective version of ISO 12217-2 should be used unless the yacht	
1 2044	was already designed to a previous version	MaO 1 2 2
3.04.4	For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either:	Mo0,1,2,3
a)	the stability index/AVS in ORC Rating System of not less than 110; or	Extract Mo2
b)	IRC SSS Base value of not less than 28; or	Extract Mo2
c)	a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is	Extract
	the mass of the boat in the minimum operating condition as defined by ISO	Mo0,1,2
■ 3.04.6	12217-2.) Use of the ISO or any other index does not guarantee total safety or total	Mo0,1,2,3,4
3.0 1.0	freedom of risk from capsize or sinking.	1100,1,2,3,1
3.04.7	For boats with moveable or variable ballast the method in OSR 3.04.4 shall apply	Mo0,1,2,3,4
2.04.0	plus the relevant additional requirement of OSR Appendix K.	
3.04.8	Tanks for variable ballast shall be permanently installed and shall be provided with a system of isolating valves and pump(s) capable of manual operation at any	Mo0,1,2,3,4
	angle 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	
■ 3.06	produces maximum angle of heel of not greater than 35 degrees. 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	
3.06.2	installation. Yachts first launched on or after January 2014 have a hatch with the following	Mo0,1,2,3,4
3.00.2	minimum clear openings in compliance with ISO 9094:	1100,1,2,3,7
	- 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.	
	380	
	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
3.08	compliance with the dimensions in OSR 3.07.2(a)(ii); Hatches & Companionways	
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	
2.00.2	than 0.071m2 (110 sq in)).	**

and used in accordance with the following instruction: "NOT TO BE OPENED AT SEA" Attention is drawn to SR 3.02.1

3.08.2

3.08.3 A hatch shall be:
 a) 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

A hatch fitted forward of the maximum beam station, located on the side of the

0.071m2 shall comply with ISO12216 design category A and be clearly labelled

coachroof, opening into the interior of the boat ,and of area greater than

Mo0,1,2,3,4

**

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) A companionway hatch shall: 3.08.4 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 whether or not in position in the hatchway, secured to the yacht (e.g. by lanyard) ** ii 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 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 a) Mo0,1,2,3,4 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 A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first ** 3.09.4 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 3.09.5 ** 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 Extract x 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 Extract ** IMS-rated boats may instead of the terms LWL, maximum beam, freeboard abreast the cockpit, use the IMS terms L, B and FA. **Cockpit Drains** 3.09.8 See OSR 3.09.1. Cockpit drain cross section area (after allowance for screens if fitted) shall be:in yachts with earliest of age or series date before 1/72 or in any yacht under ** a) 8.5m (28ft) LOA - at least that of 2 x 25mm diameter (one inch) unobstructed openings or equivalent in yachts with earliest of age or series date 1/72 and later - at least that of 4 x ** b) 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

**

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

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.

Mast Step 3.12

** The heel of a keel stepped mast shall be securely fastened to the mast step or adjoining structure.

**

Mo0,1,2,3,4

**

**

3.14 **Pulpits, Stanchions, Lifelines**

- Lifeline deflection shall not exceed the following: 3.14.2
- 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) 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. **
- The following shall be provided: 3.14.3
- a bow pulpit with vertical height and openings essentially conforming to Table 7. a) 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)

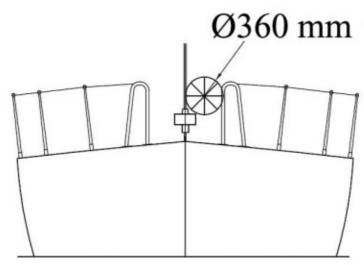


Figure 2 - Diagram Showing Pulpit Opening

bolted, bonded or welded.

- a stern pulpit, or lifelines arranged as an adequate substitute, with vertical b) Mo0,1,2,3,4 openings conforming to Table 7 lifelines (guardlines) supported on stanchions, which, with pulpits, shall form an ** c) 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. ** Openable upper rails in bow pulpits shall be secured shut whilst racing e) ** 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 study, pulpits and/or stanchions shall be through-
- The bases of pulpits and stanchions shall not be further inboard from the edge of g) 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	ne deck or hull.			
i)	Provided the	complete lifeline en	closure is supported by stanchions and pulpit	**	
,		-	king deck, lifeline terminals and support struts		
		to a hull aft of the	- · · · · · · · · · · · · · · · · · · ·		
j)			pow pulpit if they terminate at, or pass through,	**	
J <i>)</i>			et inside and overlapping the bow pulpit, provided		
	• •				
		between the upper	lifeline and the bow pulpit does not exceed 150		
	mm (6 in).			slasla	
k)			fixed only at (or near) the bow and stern.	**	
		_	pe permitted in the lifelines on each side of a		
	•		the movement of a lifeline in a fore-and-aft		
	direction sha	ll not be constrained	d. Temporary sleeving in 3.14.6 (c) shall not		
	modify tension	on in the lifeline.			
l)	Stanchions sl	hall be straight and	vertical except that:-	**	
i	within the first	st 50 mm (2 in) fror	n the deck, stanchions shall not be displaced	**	
		• •	nich they emerge from the deck or stanchion base		
	•	n 10 mm (3/8 in),an	, -		
ii	•	, , ,	t more than 10 degrees from vertical at any point	**	
		n (2 in) from the de			
m)		. ,	designs also comply to ISO 15085	**	
3.14.5			nings, Number of Lifelines		
J.14.J	TABLE 7	girt, vertical opei	inigs, Number of Elicinics	**	
	LOA	earliest of	minimum requirements		Category
	LON	age/seriesdate	minimum requirements		category
	under 8.5	before January	single lifeline at a height of no less than 450 mm	(18	**
	m(28 ft)	1992	in) above the working deck. No vertical opening	(10	
	111(2011)	1332	shall exceed 560 mm (22 in).		
	under 8.5	January 1002	as for under 8.5 m(28 ft) in table 7 above, except	-	**
		January 1992	· · · · · · · · · · · · · · · · · · ·		
	m(28 ft)	and after	that when an intermediate lifeline is fitted no vert	ıcaı	
	0.5 (20	h . C	opening shall exceed 380 mm (15 in).		**
	8.5 m (28	before January	double lifeline with upper lifeline at a height of no		ጥጥ
	ft) and	1993	less than 600 mm (24 in) above the working deck	ί.	
	over		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, excep		**
	ft)and	and after	that no vertical opening shall exceed 380 mm (15	j	
	over		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			, Required Materials, Specifications		
a)	Lifelines shal			**	
		ed stainless steel w		**	
	_		e (HMPE) (Dyneema®/Spectra® or equivalent)	**	
		n braid is recomme	•		
b)		-	ied in table 8 below.	**	
c)			incoated and used without close-fitting sleeving,	**	
	however, ten	nporary sleeving ma	by be fitted provided it is regularly removed for		
	inspection.				
d)	When stainle	ess wire is used, Gra	nde 316 is recommended.	**	
e)	When HMPE	(Dyneema®/Spectr	ra®) is used, it shall be spliced in accordance	**	
	with the man	ufacturer's recomm	ended procedures.		
f)	A taut lanyar	d of synthetic rope	may be used to secure lifelines provided the gap	**	
	it closes does	not exceed 100 m	m (4 in). This lanyard shall be replaced annually		
	at a minimun		•		
g)	All wire, fitting	igs, anchorage poin	ts, fixtures and lanyards shall comprise a lifeline	**	
• •			Il points at least the breaking strength of the		
	required lifeli				

TABLE 8 -	Minimum	Diameters
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., .,	- 10.11101010		
LOA	wire	HMPE rope (Single braid)	HMPE Core (Braid on braid)
under 8.5m (28ft)	3mm (1/8 in)	4mm (5/32 in)	4mm (5/32 in)
8.5m - 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)

	over	13m (43 ft)	5mm	(3/16in)	5mm (3/16in)	5mm (3/16in)	
3.17		ail or Foot - S		(=,==,	(c) z c c c	(0, 2011)	Mo0,1,2,3
3.17.1			-	nt 25 mm (1 in) shall be perman	ently installed around	Mo0,1,2,3
0.27.12					xcept in way of fitting		
				•		of the local half-beam.	
3.17.2		ollowing variation		_			Mo0,1,2,3
	TABLE	_		11 /			Mo0,1,2,3
		Earliest of Age	e m	inimum red	quirements		,,,,-
		or Series Date			•		
	any	before Januar 1981	у а	toe rail mii	nimum height of 20 n	nm (3/4 in) is acceptabl	e.
	any	before Januar 1994	he	eight 50 mi		height 25 mm (1 in) and e in lieu of a toe rail (bui	
	any	January 1994				e as practicable to the v	ertical axis of
	ω,	and after				nboard than 1/3 the loca	
3.18	Toilet						
3.18.1	A toile	t, permanently	install	ed			MoMu0,1,2
3.19	Bunks	•					
3.19.2	Bunks	, permanently i	nstalle	d			**
3.20	Cooki	ing Facilities					
3.20.1						d with safe accessible	MoMu0,1,2,3
					ng safely operated in	a seaway.	
3.21		ing Water Ta		Drinking	Water		MoMu0,1,2,3
3.21.1		ing Water Ta					MoMu0,1,2,3
a)	•	•		•	alled delivery pump a	nd water tank(s):	MoMu0,1,2,3
3.21.3		gency Drinkin	_				MoMu0,1,2,3
a)		•	_		gallons) of drinking w		MoMu1,2,3
3.22		Holds	III a u	edicated a	nd sealed container o	or container(s)	
J.22			shall l	ne fitted he	low deck so that cre	w members may move	**
	•	safely at sea.	Silaii	oc neced be	now accir so that circ	w members may move	
			e capa	able of with	nstanding without rup	nture a side force of	
		l - attention is d	•				
3.23		Pumps and B					
3.23.1	No bil	ge pump may d	lischar	ge into a c	ockpit unless that cod	ckpit opens aft to the	**
	sea.	- · ·					
3.23.2		•			cockpit drains. (OSR	-	**
3.23.3			m box	es shall be	readily accessible for	r maintenance and for	**
		ng out debris					1.1.
3.23.4					ge pump handle shall		**
2 22 5					revent accidental loss	5	
3.23.5		ollowing shall be			المستعدم مستسلم	ala fuana alaassa Alaa	Ma0 1 2
a)	•	•		_	e pumps, one operat	-	Mo0,1,2
					all be operable with a	ntly installed discharge	
		•			modate simultaneous		
f)		•	•			s (2 UK gallons, 2.4 US	**
1)		s) capacity. Eac				, (2 UK Yallulis, 2.7 US	
3.24	Comp	• •	ii buc	CC to Have	a idilyaldi		
3.24.1	_	ollowing shall be	nrovi	ded:-			
a)					lent of any power su	pply, permanently	**
-,		_	-	-	eviation card, and	FF:// Formanding/	
b)		•	_			pable of being used as	MoMu0,1,2,3
•	,		•			5	. , ,

	a steering compass which	n may be hand-held	
3.25	Halyards. No mast shall have less the	han two halyards, each capable of hoisting a sail.	**
3.27	Navigation Lights (see	e OSR 2.03.3)	
3.27.1	5	mounted so that they will not be masked by sails or the	**
3.27.2	heeling of the yacht. Navigation lights shall no	t be mounted below deck level and should be at no less	**
	height than immediately		
3.27.3	Navigation light intensity TABLE 11		
	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
		bove, with a separable power source, and wiring or separate from that used for the normal navigation lights	
3.27.5		n lights shall be carried, or for lights not dependent on	**
0.27.0	bulbs, appropriate spares	, ,	
3.28	Engines, Generators, F	uel	ate ate
3.28.1 a)	Propulsion Engines Engines and associated of	ystems shall be installed in accordance with their	** **
a)		s and shall be of a type, strength, capacity, and	
		e size and intended use of the yacht.	
b)	• •	gine when fitted shall: be provided with a permanently	**
		, and fuel supply systems and fuel tank(s); be securely	
c)	•	rate protection from the effects of heavy weather. ired by Special Regulations shall provide a minimum	MoMu0,1,2,3
c)		square root of LWL in metres) or (square root of LWL in	1 101 100/1/2/3
	feet)		
e)		gine shall be provided for yachts	Mo0,1,2Mu0
3.28.2	Generator A separate generator for	electricity is optional. However, when a separate	**
		all be permanently installed, securely covered, and shall	
		ed exhaust, cooling and fuel supply systems and fuel	
3.28.3	tank(s), and have adequate Fuel Systems	ate protection from the effects of heavy weather.	
a)	-	vith a shutoff valve. Except for permanently installed	MoMu0,1,2,3
/		tank is not permitted as a fuel tank.	, _ , _ , _ , _ ,
b)		all have a minimum amount of fuel which may be	MoMu0,1,2,3
	•	Race but if not, shall be sufficient to be able to meet r the duration of the race and to motor at the above	
	minimum speed for at lea		
3.28.4	Battery Systems		
a)		s the only method for starting the engine, the yacht	MoMu0,1,2,3
b)		tery, the primary purpose of which is to start the engine on board shall be of the sealed type from which liquid	MoMu0,1,2,3
D)		. Other types of battery installed on board at 1/12 may	1401410,1,2,3
		mainder of their service lives.	
3.29		oment, EPFS (Electronic Position-Fixing System),	**
	Radar, AIS Provision of CMDSS is un	likely to be mandatory for small craft during the term of	$M_0M_{11}O$ 1 2 2
	the present Special Regul		MoMu0,1,2,3
3.29.1	The following shall be pro		**
a)		er (or if stated in the Notice of Race, an installed satcom	MoMu0,1,2,3
i	terminal), and	hen the regular antenna depends upon the mast.	MoMu0,1,2,3
I	an emergency afficilla W	nen me regular antenna depends upon the mast.	111011110,1,2,3

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	MoMu0,1,2,3
	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).	
İV	it should include channel 72 (an international ship-ship channel which, by	MoMu0,1,2,3
	common use, has become widely accepted as primary choice for ocean racing	
_	yachts anywhere in the world)	M M 4 2 2
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	MoMu1,2,3
	(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	
e)	another DSC equipped station A hand-held marine VHF transceiver, watertight or with a waterproof cover. When	MoMu1,2,3,4
C)	not in use to be stowed in a grab bag or emergency container (see OSR 4.21)	11011111,2,3,4
	The handheld receiver should have Digital Selective Calling (DSC) and be	
	equipped with GPS.	
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
n)	An AIS Transponder	MoMu1,2
p)	An AIS antenna shall be mounted on top of the main mast.	MoMu0,1,2
3.29.2	Yachts are reminded that no reflector, active or passive, is a guarantee of	**
	detection or tracking by a vessel using radar.	
a)	The attention of persons in charge is drawn to legislation in force or imminent	**
	affecting the territorial seas of some countries in which the carriage of an AIS set	
	is or will be mandatory for certain vessels including relatively small craft.	
CECT		
	TION 4 - PORTABLE EQUIPMENT & SUPPLIES for the	e yacnt
•	iter & fuel see OSR 3.21 and OSR 3.28)	
4.01	Sail Letters & Numbers	dede
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	
4.01.2	numbers allotted by a State 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.	ጥጥ
4.03	Soft Wood Plugs	
4.03	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	
4.04.1	Jackstays shall be provided-	MoMu0,1,2,3
a)	attached to through-bolted or welded deck plates or other suitable and strong	MoMu0,1,2,3
,	anchorage fitted on deck, port and starboard of the yacht's centre line to provide	
	secure attachments for safety harness:-	
b)	comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in), high	MoMu0,1,2,3
•	modulus polyethylene (such as Dyneema/Spectra) rope or webbing of equivalent	
	strength;	
c)	which, when made from stainless steel wire shall be uncoated and used without	MoMu0,1,2,3
	any deeving:	

shall be provideda) attached to through-bolted or welded deck plates or other suitable and strong MoMu0,1,2,3

MoMu0,1,2,3

20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended;

any sleeving;

4.04.2 Clipping Points:-

d)

	anchorage points adjacent to stations such as the helm, sheet winches and	
b)	masts, where crew members work for long periods:- which, together with jackstays and static safety lines shall enable a crew member-	MoMu0,1,2,3
i	to clip on before coming on deck and unclip after going below;	MoMu0,1,2,3
ii	whilst continuously clipped on, to move readily between the working areas on	MoMu0,1,2,3
c)	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	MoMu0,1,2,3
e)	simultaneously clipped on without depending on jackstays Warning - U-bolts as clipping points - see OSR 5.02.1(a)	MoMu0,1,2,3
4.05	Fire Extinguishers	140140,1,2,3
	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 equivalent	MoMu0,1,2,3
4.05.4	A fire blanket adjacent to every cooking device with an open flame	**
4.06	Anchor(s)	
4.06.1	An anchor or anchors shall be carried according to the table below:	**
a)	The following anchors shall be provided	
İ	For yachts of 8.5 m LOA (28 ft) and over there shall be 2 anchors together with a suitable combination of chain and rope, all ready for immediate use	MoMu1,2,3
ii	For yachts under 8.5 m LOA (28 ft) there shall be 1 anchor together with a	MoMu1,2,3
4.07	suitable combination of chain and rope, all ready for immediate use	
4.07	Flashlight(s) and Searchlight(s) The following shall be provided:	
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:-	**
b)	First Aid at Sea, by Douglas Justins and Colin Berry, published by Adlard Coles Nautical, London	MoMu2,3,4
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
e)	Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr Campbell Mackenzie www.msos.org.uk	**
4.08.2	A First Aid Kit shall be provided	**
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 reflector shall be carried with circular sector plates of	**
	minimum diameter 30 cm (12") or a reflector with a documented minimum Radar Cross Section (RCS) area of 2 m2	
4.11	Navigation Equipment	
4.11.1	Charts	
	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 4.14	An echo sounder or lead line shall be provided Speedometer or Distance Measuring Instrument (log)	MoMu1,2,3,4
4.15	A speedometer or distance measuring instrument (log) shall be provided Emergency Steering	MoMu0,1,2,3
4.15.1	Emergency steering shall be provided as follows:	MaMu() 1 2 2
a)	except when the principal method of steering is by means of an unbreakable metal tiller, an emergency tiller capable of being fitted to the rudder stock;	MoMu0,1,2,3
b)	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 demonstrated.	MoMu0,1,2,3
4.16	Tools and Spare Parts Tools and spare parts, including effective means to quickly disconnect or sever	**
4.17	the standing rigging from the hull shall be provided. Yacht's name	
1127	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	dud
4.19	Marine grade retro-reflective material shall be fitted to lifebuoys, lifeslings, liferafts and lifejackets. See OSRs 5.04, 5.08. EPIRBs	**
4.19 4.19.1	A 406 MHz EPIRB shall be provided	MoMu1,2
<i>b)</i>	It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.	MoMu0,1,2
c)	Every EPIRB shall be registered with the appropriate authority associated with the	MoMu0,1,2
	country code in the hexadecimal identification (15 Hex ID) of the beacon. A beacon can be registered online with the Cospas-Sarsat IBRD if the country does not provide a registration facility and the country has allowed direct registration in the IBRD	
d)	Every ship's 406 MHz EPIRB shall be water and manually activated.	MoMu0,1,2
u,	Every ship's 100 mile that shall be water and mandally activated.	
e)	A list of registration numbers of 406 EPIRBs should be notified to event	MoMu0,1,2
-	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is	MoMu0,1,2
e) f)	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned.	MoMu0,1,2 MoMu0,1,2
e) f) 4.20	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts	MoMu0,1,2
e) f)	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft	MoMu0,1,2 MoMu0,1,2
e) f) 4.20 4.20.1	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and may be packed	MoMu0,1,2 MoMu0,1,2 MoMu0,1,2
e) f) 4.20 4.20.1 4.20.2 a)	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version	MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu1,2 Extract File
e) f) 4.20 4.20.1 4.20.2 a)	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and may be packed in a valise. A SOLAS liferaft shall contain at least a SOLAS "A" pack or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a	MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu1,2 Extract File MoMu1,2 MoMu1,2
e) f) 4.20 4.20.1 4.20.2 a) b) c) d)	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and may be packed in a valise. A SOLAS liferaft shall contain at least a SOLAS "A" pack or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-	MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2
e) f) 4.20 4.20.1 4.20.2 a) b) c)	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and may be packed in a valise. A SOLAS liferaft shall contain at least a SOLAS "A" pack or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding	MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2
e) f) 4.20 4.20.1 4.20.2 a) b) c) d) i iii	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and may be packed in a valise. A SOLAS liferaft shall contain at least a SOLAS "A" pack or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall have a topping-up means provided for any inflatable boarding ramp, and shall have a topping-up means provided for any inflatable boarding ramp, and	MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2
e) f) 4.20 4.20.1 4.20.2 a) b) c) d) i ii	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and may be packed in a valise. A SOLAS liferaft shall contain at least a SOLAS "A" pack or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding process, and shall have a topping-up means provided for any inflatable boarding ramp, and when the liferaft is designed with a single ballast pocket this shall be accepted provided the liferaft otherwise complies with ISO 9650 and meets a suitable test	MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2
e) f) 4.20 4.20.1 4.20.2 a) b) c) d) i iii	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and may be packed in a valise. A SOLAS liferaft shall contain at least a SOLAS "A" pack or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding process, and shall have a topping-up means provided for any inflatable boarding ramp, and when the liferaft is designed with a single ballast pocket this shall be accepted provided the liferaft otherwise complies with ISO 9650 and meets a suitable test of ballast pocket strength devised by the manufacturer and	MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2
e) f) 4.20 4.20.1 4.20.2 a) b) c) d) i ii iii iiv	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and may be packed in a valise. A SOLAS liferaft shall contain at least a SOLAS "A" pack or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and- shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding process, and shall have a topping-up means provided for any inflatable boarding ramp, and when the liferaft is designed with a single ballast pocket this shall be accepted provided the liferaft otherwise complies with ISO 9650 and meets a suitable test of ballast pocket strength devised by the manufacturer and compliance with OSR 4.20.2 (d) i-iv shall be indicated on the liferaft certificate. Liferaft Packing and Stowage	MoMu0,1,2 MoMu0,1,2 MoMu1,2 MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2
e) f) 4.20 4.20.1 4.20.2 a) b) c) d) i iii iii v	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use. Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and may be packed in a valise. A SOLAS liferaft shall contain at least a SOLAS "A" pack or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding process, and shall have a topping-up means provided for any inflatable boarding ramp, and when the liferaft is designed with a single ballast pocket this shall be accepted provided the liferaft otherwise complies with ISO 9650 and meets a suitable test of ballast pocket strength devised by the manufacturer and compliance with OSR 4.20.2 (d) i-iv shall be indicated on the liferaft certificate.	MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2

b)	packed in a transportable rigid container or canister or in a valise and stowed in a purpose-built rigid compartment containing liferaft(s) only and opening into or	MoMu0,1,2
i	adjacent to the cockpit or working deck, or through a transom, provided that:- each compartment is watertight or self-draining (self-draining compartments will be counted as part of the cockpit volume except when entirely above working deck level or when draining independently overboard from a transom stowage - see OSR 3.09) and-	MoMu0,1,2
ii	the cover of each compartment is capable of being easily opened under water pressure, and-	MoMu0,1,2
iii	the compartment is designed and built to allow a liferaft to be removed and launched quickly and easily, or-	MoMu0,1,2
iv	in a yacht with age or series date before June 2001, a liferaft may be packed in a valise not exceeding 40kg securely stowed below deck adjacent to a	MoMu1,2
V	companionway. Liferaft stowage on a multihull and a monohull with moveable ballast shall be such that each liferaft may be readily removed and launched whether or not the yacht is inverted.	MoMu0,1,2
c)	The end of each liferaft painter should be permanently made fast to a strong point on board the yacht.	MoMu0,1,2
4.20.4 a)	Liferaft Launching Each raft shall be capable of being got to the lifelines or launched within 15	MoMu0,1,2 MoMu0,1,2
b)	seconds. Each liferaft of more than 40kg weight should be stowed in such a way that the liferaft can be dragged or slid into the sea without significant lifting	MoMu0,1,2
4.20.5	Liferaft Servicing and Inspection IMPORTANT NOTICE Recent evidence has shown that packaged liferafts are	MoMu0,1,2 <i>MoMu0,1,2</i>
	vulnerable to serious damage when dropped (e.g. from a boat onto a marina pontoon) or when subjected to the weight of a crew member or heavy object (e.g. an anchor). Damage can be caused internally by the weight of the heavy steel CO2 bottle abrading or splitting neighbouring layers of buoyancy tube material. ISAF has instituted an investigation into this effect and as an interim measure requires that every valise-packed liferaft shall have an annual certificate of servicing. A liferaft should be taken for servicing if there is any sign of damage or deterioration (including on the underside of the pack). Persons in charge should insist on great care in handling liferafts and apply the rules NO STEP and DO NOT DROP UNLESS LAUNCHING INTO THE SEA.	
a)	Certificates or copies, of servicing and/or inspection shall be kept on board the yacht. Every SOLAS liferaft and every valise-packed liferaft shall have a valid annual certificate of new or serviced status from the manufacturer or his	MoMu0,1,2
b)	approved service station. A liferaft built to OSR Appendix A part I ("ORC") packed in a rigid container or canister shall either be serviced annually or may, when the manufacturer so specifies, be inspected annually (not necessarily unpacked) provided the yacht has on board written confirmation from the manufacturer's approved service station stating that the inspection was satisfactory.	MoMu0,1,2
c)	A liferaft built to OSR Appendix A part II ("ISAF") packed in a rigid container or canister shall either be serviced annually or may, when the manufacturer so specifies, have its first service no longer than 3 years after commissioning and its second service no longer than 2 years after the first. Subsequent services shall be at intervals of not more than 12 months.	MoMu1,2
d)	A liferaft built to ISO 9650 Part 1 Type Group A, packed in a rigid container or canister shall be serviced in accordance with the manufacturer's instructions but	MoMu1,2
e)	NOT less frequently than every three years A liferaft built to ISO 9650 Part 1 Type Group A packed in a valise shall be inspected annually by an approved manufacturer's agent and serviced in accordance with the manufacturer's instructions but NOT less frequently than	MoMu1,2
f)	every three years. Liferaft servicing certificates shall state the specification that the liferaft was built to. See OSR 4.20.2	MoMu1,2

4.21.2	Grab Bags to Accompany Liferafts	
a)	A yacht is recommended to have for each liferaft, a grab bag with the following	MoMu0,1,2
•	minimum contents. A grab bag should have inherent flotation, at least 0.1 m^2	
	area of fluorescent orange colour on the outside, should be marked with the	
	name of the yacht, and should have a lanyard and clip.	
<i>b)</i>	Note: it is not intended to duplicate in a grab bag items required by other OSRs	MoMu0,1,2
-	to be on board the yacht - these recommendations cover only the stowage of	
	those items	
4.21.3	Grab Bag Recommended Contents	
a)	2 red parachute and 2 red hand flares and cyalume-type chemical light sticks (red	MoMu1,2
	flares compliant with SOLAS)	
<i>b)</i>	watertight hand-held EPFS (Electronic Position-Fixing System) (eg GPS) in at least	MoMu1,2
	one of the grab bags carried by a yacht	
<i>c)</i>	SART (Search and Rescue Transponder) in at least one of the grab bags carried	MoMu1,2
	by a yacht	
d)	a combined 406MHz/121.5MHz EPIRB registered to the boat (see OSR 4.19.1) in	MoMu1,2
	at least one of the grab bags	
<i>e)</i>	water in re-sealable containers or a hand-operated desalinator plus containers for	MoMu1,2
	water	
f)	a watertight hand-held marine VHF transceiver plus a spare set of batteries	MoMu0,1,2
<i>g)</i>	a watertight flashlight with spare batteries and bulb	MoMu0,1,2
h)	dry suits or thermal protective aids or survival bags	
i)	second sea anchor for the liferaft (not required if the liferaft has already a spare	MoMu0,1,2
	sea anchor in its pack) (recommended standard ISO 17339) with swivel and	
	>30m line diameter >9.5 mm	
j)	two safety tin openers (if appropriate)	MoMu0,1,2
<i>k)</i>	first-aid kit including at least 2 tubes of sunscreen. All dressings should be	MoMu0,1,2
	capable of being effectively used in wet conditions. The first-aid kit should be	
	clearly marked and re-sealable.	
<i>I)</i>	signalling mirror	MoMu0,1,2
m)	high-energy food (min 10 000kJ per person recommended for Cat Zero)	MoMu0,1,2
n)	nylon string, polythene bags, seasickness tablets (min 6 per person	MoMu0,1,2
	recommended)	
0)	watertight hand-held aviation VHF transceiver (if race area warrants)	MoMu0,1,2
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	
b)	In addition to a) above, one lifebuoy within reach of the helmsman and ready for	MoMu0,1,2
	instant use, equipped with:	MaNii 0 1 2
i ::	a whistle, a drogue, a self-igniting light and	MoMu0,1,2
ii	a pole and flag. The pole shall be either permanently extended or be capable of	MoMu0,1,2
	being fully automatically extended (not extendable by hand) in less than 20	
	seconds. It shall be attached to the lifebuoy with 3 m (10 ft) of floating line and is	
	to be of a length and so ballasted that the flag will fly at least 1.8 m (6 ft) off the	
4.22.2	When at least two lifebuoys (and/or Lifeslings) are carried, at least one of them	MoMu0,1,2
4.22.2	When at least two lifebuoys (and/or Lifeslings) are carried, at least one of them shall depend entirely on permanent (e.g. foam) buoyancy.	MOMUU,1,2
4.22.3	Each inflatable lifebuoy and any automatic device (e.g. pole and flag extended by	**
7.22.3	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	**
7.22. 7	(4.18).	
4.22.5	It is recommended that the colour of each lifebuoy be a safety colour in the	**
7.22.3	yellow-red range.	
4.23	Pyrotechnic and Light Signals	
4.23.1	Pyrotechnic signals shall be provided conforming to SOLAS LSA Code Chapter III	**
1.43.1	Visual Signals and not older than the stamped expiry date (if any) or if no expiry	
	date stamped , not older than 4 years.	
	aute stamped, not older than i 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	
	Z	4	2	Mu4	
1 24	TABLE 13			**	
1.24	Heaving Line	d 15 m 25 m (50 ft 75 f	t) longth roadily	**	
a)	a heaving line shall be provide accessible to cockpit.	u 15 III - 25 III (50 It - 75 I	t) length readily	4.41	
<i>b)</i>	the "throwing sock" type is red	commended - see Annendi	v D	**	
) :)	A lifesling shall be provided	MoMu0,1,2,3			
1.25	Cockpit Knife			1101100,1,2,3	
25	A strong, sharp knife, sheather	d and securely restrained s	hall be provided readily	**	
	accessible from the deck or a c		nan se previdea readin,		
1.26	Storm & Heavy Weather Sa	•			
1.26.1	Design				
a)	it is strongly recommended	I that persons in charge	consult their	**	
	designer and sailmaker to				
	heavy weather sails. The p	urpose of these sails is t	to provide safe		
	propulsion for the yacht in	severe weather -they a	re 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.				
1.26.2	High Visibility				
a)	Every storm jib shall either be	- .		**	
	pink, orange or yellow) or have				
	the area of the sail (up to a ma	,	•		
	also that a rotating wing mast		-		
	each side. A storm sail purchas		II have the material of		
<i>t-</i>)	the body of the sail a highly-vi		-41	**	
<i>b)</i>	it is strongly recommended that the storm trysail should either be made of or				
1 26 2	have a patch of highly visible of				
4.26.3	Materials aromatic polyamides, carbon a	**			
a)			•		
<i>b)</i>	storm jib but spectra/dyneema and similar materials are permitted. it is strongly recommended that a heavy-weather jib does not contain aromatic				
"	polyamides, carbon and similar	,			
1.26.4	The following shall be prov	•	аупсста.		
a)	sheeting positions on deck for		ather sail:	**	
))	for each storm or heavy-weath		•	**	
,	independent of any luff-groove	= -	• • • • • • • • • • • • • • • • • • •		
	of attachment readily available		•		
	permanently attached;	•			
	Storm and heavy weather jib a	reas shall be calculated as			
	(0.255 x luff length x (luff perp				
	- ` '	-			
	made in January 2012 and after	er.			
c)	made in January 2012 and after a storm trysail which shall be of		dependently of the	MoMu 0,1,2	
:)	•	capable of being sheeted in	•	MoMu 0,1,2	
c)	a storm trysail which shall be o	capable of being sheeted in ater than 17.5% mainsail h	noist (P) x mainsail foot	MoMu 0,1,2	
E)	a storm trysail which shall be oboom with trysail area not great	capable of being sheeted in ater than 17.5% mainsail h rea shall be measured as ((noist (P) x mainsail foot 0.5 x leech length x	MoMu 0,1,2	
c)	a storm trysail which shall be oboom with trysail area not greatength (E). The storm trysail and	capable of being sheeted in ater than 17.5% mainsail has rea shall be measured as ((or point and leech). The sto	noist (P) x mainsail foot 0.5 x leech length x rm trysail shall have	MoMu 0,1,2	
E)	a storm trysail which shall be oboom with trysail area not greatength (E). The storm trysail as shortest distance between tack	capable of being sheeted in ater than 17.5% mainsail h rea shall be measured as ((k point and leech). The sto however a storm trysail is	noist (P) x mainsail foot 0.5 x leech length x rm trysail shall have s not required in a yacht	MoMu 0,1,2	
E)	a storm trysail which shall be oboom with trysail area not greatength (E). The storm trysail as shortest distance between tackneither headboard nor battens	capable of being sheeted in later than 17.5% mainsail he rea shall be measured as ((of point and leech). The stor of however a storm trysail is th can adequately substitut	noist (P) x mainsail foot 0.5 x leech length x rm trysail shall have s not required in a yacht the for a trysail. The	MoMu 0,1,2	
t)	a storm trysail which shall be oboom with trysail area not greatength (E). The storm trysail as shortest distance between tackneither headboard nor battens with a rotating wing mast which	capable of being sheeted in later than 17.5% mainsail has the measured as (for point and leech). The store, however a storm trysail is the can adequately substituted in Janua	noist (P) x mainsail foot 0.5 x leech length x rm trysail shall have s not required in a yacht be for a trysail. The ry 2012 and after.		
	a storm trysail which shall be oboom with trysail area not greatength (E). The storm trysail are shortest distance between tackneither headboard nor battens with a rotating wing mast which method of calculating area approximately.	capable of being sheeted in later than 17.5% mainsail has shall be measured as (of the point and leech). The stora the however a storm trysail is the can adequately substituted blies to sails made in Janua of OSR 4.26.4 (c) shall have	noist (P) x mainsail foot 0.5 x leech length x rm trysail shall have s not required in a yacht re for a trysail. The ry 2012 and after.	MoMu 0,1,2 Extract MoMu 0,1,2	
	a storm trysail which shall be oboom with trysail area not greatength (E). The storm trysail as shortest distance between tackneither headboard nor battens with a rotating wing mast which method of calculating area appetite storm trysail as required by	capable of being sheeted in ater than 17.5% mainsail he a shall be measured as (or point and leech). The story, however a storm trysail is the can adequately substituted in January OSR 4.26.4 (c) shall have a both sides of the trysail (or	noist (P) x mainsail foot 0.5 x leech length x rm trysail shall have s not required in a yacht re for a trysail. The ry 2012 and after. e the yacht's sail number or on a rotating wing	Extract MoMu	

luff maximum length 65% height of the foretriangle;

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;

h) in the case of a yacht with an in-mast furling mainsail, the storm trysail must be capable of being set while the mainsail is furled.

MoMu0,1,2

i) A trysail track should allow for the trysail to be hoisted quickly when the mainsail is lowered whether or not the mainsail is stowed on the main boom.

It is strongly recommended that a boat has either a dedicated trysail track permanently installed with the entry point accessible to a person standing on the main deck or coachroof, or a permanently installed stay on which to hank the trysail.

MoMu0,1,2

k) It is strongly recommended that an inner forestay is provided either permanently MoMinistalled or readily set up, on which to set the storm jib.

MoMu0,1,2

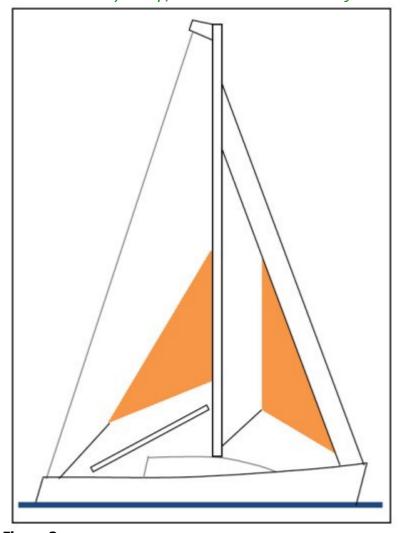


Figure 3 Man Overboard Alarm

4.28

4.28.2

MoMu0 MoMu1,2

A yacht shall be equipped with an EPFS (e.g. GPS) capable of recording a man overboard position within 10 seconds and monitoring that position.

SECTION 5 - PERSONAL EQUIPMENT

5.01.1 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 automatic, manual and oral inflation or (a) manual and oral inflation (b) 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. ** 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. fitted with a lifejacket light in accordance with SOLAS LSA code 2.2.3 (white, >0.75 candelas, >8 hours), if inflatable have a compressed gas inflation system, ** if inflatable, regularly checked for gas retention, compatible with the wearer's safety harness, ** clearly marked with the yacht's or wearer's name, ** It is strongly recommended that a lifejacket has a splashquard / sprayhood See MoMu1,2,3,4 ISO 12402 - 8, ** The person in charge shall personally check each lifejacket at least once annually. **Safety Harness and Safety Lines (Tethers)** MoMu0,1,2,3 Each crew member shall have a harness and safety line that complies with ISO MoMu0,1,2,3 12401 or equivalent with a safety line not more than 2m in length. Harnesses and safety lines manufactured prior to Jan 2010 shall comply with either ISO 12401 or EN 1095. 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 the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with MoMu0,1,2,3 a safety line not more than 1m long, or MoMu0,1,2,3 a mid-point snaphook on a 2m safety line MoMu0,1,2,3 A safety line purchased in January 2001 or later shall have a coloured flag MoMu0,1,2,3 embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency. A crew member's lifejacket and harness shall be compatible MoMu0,1,2,3 It is strongly recommended that:-MoMu0,1,2,3 static safety lines should be securely fastened at work stations; MoMu0,1,2,3 A harness should be fitted with a crotch strap or thigh straps. MoMu0,1,2,3 to draw attention to wear and damage, stitching on harness and safety lines MoMu0,1,2,3 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);

a crew member before a race should adjust a harness to fit then retain that

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

harness for the duration of the race.

MoMu0,1,2,3

**

b)

c)

d)

e) f)

g)

j)

5.01.4

5.02

5.02.1

a)

5.02.2

5.02.4

5.02.5

a)

b)

c)

d)

e)

5.02.6

a)

b) 5.02.3 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

b) 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

5.07 Survival Equipment

d) Attention is drawn to the value of keeping on the person a combined

MoMu0,1,2

MoMu0,1,2

MoMu0,1,2

**

d) Attention is drawn to the value of keeping on the person a combined 406MHz/121.5MHz PLB when on deck: this may aid location in a man overboard incident independent of the equipment carried by the parent vessel

e) Where possible every PLB shall be registered with the appropriate authority associated with the country code in the hexadecimal identification (15 Hex ID) of the beacon. A beacon can be registered online with the Cospas-Sarsat IBRD if the country does not provide a registration facility and the country has allowed direct registration in the IBRD.

SECTION 6 - TRAINING

SECTION 6 - TRAINING					
6.01	At least 30% but not fewer than two members of a crew, including the	MoMu1,2			
	skipper shall have undertaken training within the five years before the				
	start of the race in both 6.02 topics for theoretical sessions, and 6.03				
	topics which include practical, hands-on sessions.				
6.01.3	It is strongly recommended that all crew members should undertake training as in	MoMu1,2			
	OSR 6.01 at least once every five years				
6.01.4	Except as otherwise provided in the Notice of Race, an in-date certificate gained	MoMu0,1,2			
	at an ISAF Approved Offshore Personal Survival Training course shall be accepted				
	by a race organizing authority as evidence of compliance with Special Regulation				
	6.01. See Appendix G - Model Training Course, for further details.				
6.02	Training Topics for Theoretical Sessions				
6.02.1	care and maintenance of safety equipment	MoMu0,1,2			
6.02.2	storm sails	MoMu0,1,2			
6.02.3	damage control and repair	MoMu0,1,2			
6.02.4	heavy weather - crew routines, boat handling, drogues	MoMu0,1,2			
6.02.5	man overboard prevention and recovery	MoMu0,1,2			
6.02.6	giving assistance to other craft	MoMu0,1,2			
6.02.7	hypothermia	MoMu0,1,2			
6.02.8	SAR organisation and methods	MoMu0,1,2			
6.02.9	weather forecasting	MoMu0,1,2			
6.03	Training Topics for Practical, Hands-On Sessions	MoMu0,1,2			
6.03.1	liferafts and lifejackets	MoMu0,1,2			
6.03.2	fire precautions and use of fire extinguishers	MoMu0,1,2			
6.03.3	communications equipment (VHF, GMDSS, satcomms, etc.)	MoMu0,1,2			
6.03.4	pyrotechnics and EPIRBs	MoMu0,1,2			
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				
	At least one member of the crew	MoMu2			
	shall have a first aid certificate completed within the last five years meeting any				
_	of the following requirements:				
i	A certificate listed on the ISAF website www.sailing.org/specialregs of MNA				
	recognised courses				
ii	STCW 95 First Aid Training complying with A-VI/1-3 – Elementary First Aid or				
	higher STCW level				

An example model first aid training course is included in Appendix N.

APPENDICES TO SPECIAL REGULATIONS

Appendix A - Minimum Specification for Yachtsmens Liferafts

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 G - Model Training Course

Appendix H - ISAF Code for the organisation of Oceanic Races

Appendix K - Moveable and Variable Ballast

Appendix M - Hull Construction Standards (Scantlings)

Appendix N - Model First Aid Training Course

APPENDIX M - Hull Construction Standards (Scantlings)

(Monohulls pre-2010 and Multihulls)

A monohull with the earliest of Age or Series Date before the 1 January 2010 MoMu0,1,2 shall comply with OSR 3.03.1, 3.03.2 and 3.03.3 or with this appendix. A multihull shall comply with this appendix. TABLE 2 MoMu0,1,2 LOA earliest of age or series date race category all January 1986 and after MoMu0,1 12m (39.4 feet) and over January 1987 and after MoMu2 under 12m (39.4 feet) January 1988 and after MoMu2 A yacht defined in the table above shall have been designed built, maintained, m2 MoMu0,1,2 modified and repaired in accordance with the requirements of either: the EC Recreational Craft Directive for Category A (having obtained the CE mark), a) MoMu0,1,2 b) the ABS Guide for Building and Classing Offshore Yachts in which case the yacht MoMu0,1,2 shall have on board either a certificate of plan approval issued by ABS, or written statements signed by the designer and builder which confirm that they have respectively designed and built the yacht in accordance with the ABS Guide, ISO 12215 Category A, with written statements signed by the designer and MoMu0,1,2 c)

builder which confirm that they have respectively designed and built the yacht in accordance with the ISO standard,

d) except that a race organizer or class rules may accept when that described in (a), MoMu0,1,2 (b), or (c) above is not available, the signed statement by a naval architect or other person familiar with the standards listed above that the yacht fulfills the

requirements of (a), (b), or (c).

May significant repairs or modifications to the hull, deck, coachroof, keel or appendages, on a yacht defined in table 2 shall be certified by one of the methods above and an appropriate written statement or statements shall be on board.

MoMu0,1,2

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