ISAF OFFSHORE SPECIAL REGULATIONS

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



Extract for Race Category 1 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 Use

1.01.1 It is the purpose of these Special Regulations to establish uniform minimum equipment, accommodation and training standards for monohull and multihull yachts racing offshore. A Proa is excluded from these regulations.
 1.01.2 These Special Regulations do not replace, but rather supplement, the

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- requirements of governmental authority, the Racing Rules and the rules of Class Associations and Rating Systems. The attention of persons in charge is called to restrictions in the Rules on the location and movement of equipment.
- 1.01.3 These Special Regulations, adopted internationally, are strongly recommended ** for use by all organizers of offshore races. Race Committees may select the category deemed most suitable for the type of race to be sailed.

1.02 Responsibility of Person in Charge

- 1.02.1 The safety of a yacht and her crew is the sole and inescapable responsibility of the person in charge who must do his best to ensure that the yacht is fully found, thoroughly seaworthy and manned by an experienced crew who have undergone appropriate training and are physically fit to face bad weather. He must be satisfied as to the soundness of hull, spars, rigging, sails and all gear. He must ensure that all safety equipment is properly maintained and stowed and that the crew know where it is kept and how it is to be used. He shall also nominate a person to take over the responsibilities of the Person in Charge in the event of his incapacitation.
- 1.02.2 Neither the establishment of these Special Regulations, their use by race organizers, nor the inspection of a yacht under these Special Regulations in any way limits or reduces the complete and unlimited responsibility of the person in charge.
- 1.02.3 Decision to race -The responsibility for a yacht's decision to participate in a race or to continue racing is hers alone RRS Fundamental Rule 4.

1.03 Definitions, Abbreviations, Word Usage

1.03.1 Definitions of Terms used in this document

TABLE 1	
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 water would run in the event that when the yacht is floating level the 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 transom meets the sheerline.
Foul-Weather	A foul weather suit is clothing designed to keep the wearer dry and
Suit	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 provides						
GMDSS satellite distress and safety communications, plus gene							
	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.						
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	5 5 , 5 5						
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 se							
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)						
Fastened	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						
Static Dallast	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						
Static Safety Line	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.						
The words "shall" a	nd "must" are mandatory, and "should" and "may" are **						
permissive.	The mast are manadory, and should and may are						
	The word "vacht" shall be taken as fully interchangeable with the word "boat". **						

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

1.03.2

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:	
2.01.2	Category 1	
	Races of long distance and well offshore, where yachts must be completely	MoMu,1
	self-sufficient for extended periods of time, capable of withstanding heavy	
	storms and prepared to meet serious emergencies without the expectation of	
	outside assistance.	
2.02	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	**
2 02 2	size of the yacht.	
2.03.2	Heavy items:	**
a)	ballast, ballast tanks and associated equipment shall be permanently installed	**
b)	heavy movable items including e.g. batteries, stoves, gas bottles, tanks,	<u>ሉ</u> ሉ
->	toolboxes and anchors and chain shall be securely fastened	**
c)	heavy items for which fixing is not specified in Special Regulations shall be	ጥጥ
2 0 2 2	permanently installed or securely fastened, as appropriate	**
2.03.3	When to show navigation lights	**
a)	navigation lights (OSR 3.27) shall be shown as required by the International	-1, 1,
	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 EQUIPMENT

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 Hull Construction Standards (Scantlings)

3.03.1 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 *
on board a certificate of building plan review from a notified body recognized

by ISAF.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.

- b) A yacht of 24m in hull length and over (measured in accordance with ISO Mo0,1,2 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
 - on board a certificate of building plan review from a Classification Society recognized by ISAF

• 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)

- Mo0,1,2
- A yacht of less than 24m in hull length (measured in accordance with ISO Mo0,1,2 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 havethe 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 ISAF

 \bullet on 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 \ast

b) A yacht of 24m in hull length and over (measured in accordance with ISO Mo0,1,2 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

• 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

• On board a declaration signed and dated by the builder to commit 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 Mo0,1,2 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.
- 3.03.4 A monohull with the earliest of Age or Series Date before the 1 January 2010 Extract Mo0,1,2 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.
 * or as from time to time specified by ISAF
- 3.03.5 Regular inspection of the keel and keel/hull attachment structure are strongly Mo0,1,2,3,4

MoMu0,1,2

Mo0,1,2 Mo0,1,2

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	recommended	N-01004
3.04	Stability - Monohulls	Mo0,1,2,3,4
3.04.2	A yacht shall be designed and built to resist capsize.	Mo0,1,2,3,4
3.04.3	Yachts shall demonstrate compliance with ISO 12217-2*, either by EC	Mo0,1,2,3
	Recreational Craft Directive certification (having obtained the CE mark) or the	
2.04.2	designer's declaration, for the race categories as follows:	Extract Ma0 1 2
3.04.3	Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or	Extract Mo0,1,2
	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	
2.04.4	was already designed to a previous version	M-0 1 2 2
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:	Eutro et Ma 1
a)	the stability index/AVS in ORC Rating System of not less than 115; or	Extract Mo1
b)	IRC SSS Base value of not less than 35; or	Extract Mo0,1
c)	a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m"	Extract Mo0,1,2
	is the mass of the boat in the minimum operating condition as defined by ISO	
2046	12217-2.)	Man 1 7 7 1
3.04.6	Use of the ISO or any other index does not guarantee total safety or total	Mo0,1,2,3,4
3.04.7	<i>freedom of risk from capsize or sinking.</i> For boats with moveable or variable ballast the method in OSR 3.04.4 shall	Ma0 1 2 2 4
5.04.7	apply plus the relevant additional requirement of OSR Appendix K.	Mo0,1,2,3,4
3.04.8	Tanks for variable ballast shall be permanently installed and shall be provided	Mo0 1 2 2 4
5.04.0	with a system of isolating valves and pump(s) capable of manual operation at	Mo0,1,2,3,4
	any 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	Mo0,1,2,3,4
5.04.5	static heel angle in the condition of Light Craft Condition (see ISO 12217-2)	1100,1,2,3,7
	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
5.00.1	1995 and after shall have at least two exits. At least one exit shall be located	100,1,2,3,1
	forward of the foremost mast except where structural features prevent its	
	installation.	
3.06.2	Yachts first launched on or after January 2014 have a hatch with the following	Mo0,1,2,3,4
	minimum clear openings in compliance with ISO 9094:	
	- Circular shape: diameter 450mm;	
	- Any other change: minimum dimension of 380mm and minimum area of	

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

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

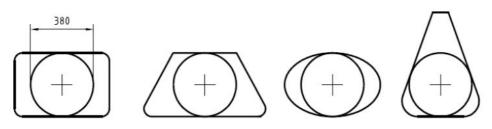


Figure 1 - Measurements of Minimum Clear Opening

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

3.08 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 than 0.071m2 (110 sq in)).

3.08.2	A hatch fitted forward of the maximum beam station, located on the side of	**
	the coachroof, opening into the interior of the boat ,and of area greater than	
	0.071m2 shall comply with ISO12216 design category A and be clearly	
	labelled and used in accordance with the following instruction: "NOT TO BE	
	OPENED AT SEA" Attention is drawn to SR 3.02.1	
3.08.3	A hatch shall be:	
a)	so arranged as to be above the water when the hull is heeled 90 degrees.	Mo0,1,2,3,4
,	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).	
L)		**
b)	permanently attached	**
c)	capable of being firmly shut immediately and remaining firmly shut in a 180	ጥ ጥ
2 00 4	degree capsize (inversion)	
3.08.4	A companionway hatch shall:	
a)	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	Mo0,1,2,3,4
	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)	be in full compliance with all aspects of ISO 11812 to design category A	Mo0,1,2,3,4
3.08.6	For boats with a cockpit closed aft to the sea where the companionway hatch	Mo0,1,2,3,4
	extends below the local sheerline, the companionway shall be capable of being	
	blocked off up to the level of the local sheerline, provided that the	
	companionway hatch shall continue to give access to the interior with the	
	blocking devices (e.g. washboards) in place	
3.09	Cockpits - Attention is Drawn to ISO 11812	
3.09.1	Cockpits shall be structurally strong, self-draining quickly by gravity at all	**
	angles of heel and permanently incorporated as an integral part of the hull.	
3.09.2	Cockpits must be essentially watertight, that is, all openings to the hull must	**
	be capable of being strongly and rigidly secured	
3.09.3	A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR	**
	3.09.8 for cockpit drain minimum sizes	
3.09.4	A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first	**
	launched before 1/03, at least 2% L above LWL)	
3.09.5	A bow, lateral, central or stern well shall be considered a cockpit for the	**
	purposes of OSR 3.09	
3.09.6	In cockpits opening aft to the sea structural openings aft shall be not less in	**
	area than 50% maximum cockpit depth x maximum cockpit width.	
3.09.7	Cockpit Volume	
i)	earliest of age or series date before April 1992	
.,	the total volume of all cockpits below lowest coamings shall not exceed 6%	Extract MoMu0,1
	(LWL x maximum beam x freeboard abreast the cockpit).	
ii)	earliest of age or series date April 1992 and after	
,	as above for the appropriate category except that "lowest coamings" shall not	Extract **
	include any aft of the FA station and no extension of a cockpit aft of the	
	working deck shall be included in calculation of cockpit volume	
	IMS-rated boats may instead of the terms LWL, maximum beam, freeboard	Extract **
	abreast the cockpit, use the IMS terms L, B and FA.	

	3.09.8	Cockpit Drains	
	2.09.0		
		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	4.4.
		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	
I	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 that are aft of the mast.	
	b)	When a deflecting force of 4 kg/f (39.2 N) is applied midway between supports	**
	5)	of an intermediate lifeline of all spans that are aft of the mast, deflection shall	
		or an intermediate memile of an spans that are art of the mast, denection shall	

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

not exceed 120mm from a straight line between the stanchions. The following shall be provided: 3.14.3

a)

**

Mo0,1,2,3,4

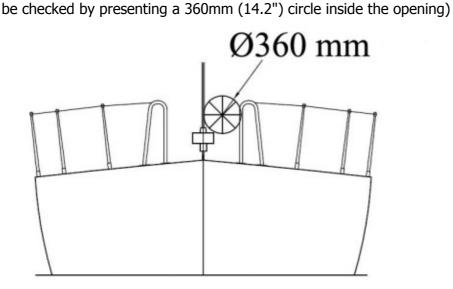


Figure 2 - Diagram Showing Pulpit Opening

- 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 ** c)
- 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
- upper rails of pulpits at no less height above the working deck than the upper d) ** lifelines as in Table 7. **
- e) Openable upper rails in bow pulpits shall be secured shut whilst racing

f)	Pulpits and stanchions shall be permanently installed. When there are sockets or studs, these shall be through-bolted, bonded or welded. The pulpit(s) and/or stanchions fitted to these shall be mechanically retained without the help of the life-lines. Without sockets or studs, pulpits and/or stanchions shall be through-bolted, bonded or welded.	**
g)	The bases of pulpits and stanchions shall not be further inboard from the edge of the appropriate working deck than 5% of maximum beam or 150 mm (6 in), whichever is greater.	**
h)	Stanchion or pulpit or pushpit bases shall not be situated outboard of a working deck. For the purpose of this rule the base shall be taken to include a sleeve or socket into which the tube is fitted but shall exclude a baseplate which carries fixings into the deck or hull.	**
i)	Provided the complete lifeline enclosure is supported by stanchions and pulpit bases effectively within the working deck, lifeline terminals and support struts may be fixed to a hull aft of the working deck	**
j)	Lifelines need not be fixed to a bow pulpit if they terminate at, or pass through, adequately braced stanchions set inside and overlapping the bow pulpit, provided that the gap between the upper lifeline and the bow pulpit does not exceed 150 mm (6 in).	**
k)	Lifelines shall be continuous and fixed only at (or near) the bow and stern. However a bona fide gate shall be permitted in the lifelines on each side of a yacht. Except at its end fittings, the movement of a lifeline in a fore-and-aft direction shall not be constrained. Temporary sleeving in 3.14.6 (c) shall not modify tension in the lifeline.	**
I)	Stanchions shall be straight and vertical except that:-	**
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 $(3/8 \text{ in})$, and	**
ii	stanchions may be angled to not more than 10 degrees from vertical at any point above 50 mm (2 in) from the deck.	**
<i>m)</i>	It is strongly recommended that designs also comply to ISO 15085	**

3.14.5 Lifeline Height, Vertical Openings, Number of Lifelines

TABLE 7

** LOA earliest of minimum requirements Category age/seriesdate single lifeline at a height of no less than 450 ** under 8.5 before January 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 and as for under 8.5 m(28 ft) in table 7 above, except that when an intermediate lifeline is m(28 ft) after fitted no vertical opening shall exceed 380 mm (15 in). ** 8.5 m (28 before January double lifeline with upper lifeline at a height ft) and of no less than 600 mm (24 in) above the 1993 over working deck. No vertical opening shall exceed 560 mm (22 in) ** 8.5 m (28 January 1993 and as 8.5 m (28 ft) and over in Table 7 above, ft)and over after except that no vertical opening shall exceed 380 mm (15 in). on yachts with intermediate lifelines the ** all all 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 :

- stranded stainless steel wire or
- High Modulus Polyethylene (HMPE) (Dyneema®/Spectra® or equivalent) rope (Braid on braid is recommended)
- ** ** **

b)	The minimum diameter is specified in table 8 below.						**
c)	Stainless steel lifelines shall be uncoated and used without close-fitting						**
	sleevir						
0	remov						
<i>d)</i>	When	**					
e)	When	ጥ ተ					
f)	with th	**					
')		, ,			used to secure lifelines provi 4 in). This lanyard shall be re		
		lly at a minimur				piacea	
g)		,		qe points, fixtu	res and lanyards shall compri	se a	**
57					I points at least the breaking		
_	of the	required lifeline	e wi	re.			
	TABLE	<u>8 - Minimum D</u>	Diam	neters			**
	LOA		W	ire	HMPE rope (Single braid)		Core (Braid on
						braid)	
		r 8.5m (28ft)	-	nm (1/8 in)	4mm (5/32 in)	4mm (5	
		<u>- 13m</u>	-	nm (5/32 in)	5mm (3/16 in)	5mm (3	
		13m (43 ft)		nm (3/16in)	5mm (3/16in)	5mm (3	
3.17		ail or Foot - S	_				Mo0,1,2,3
3.17.1					in) shall be permanently insta		Mo0,1,2,3
					ast, except in way of fittings		
	half-be		uie	euge of the WO	rking deck than one third of		
3.17.2		llowing variatio	nc d	shall apply:-			Mo0,1,2,3
5.17.2	TABLE		115 3	appiy.			Mo0,1,2,3
	LOA	Earliest of Age	<u>ر</u>	minimum requ	irements		
	20/1	or Series Date					
	any	before January	y	a toe rail mini	mum height of 20 mm (3/4 iı	n) is	
		1981		acceptable.			
	any	before January	У		ifeline of minimum height 25	•	
	1994			in) and maxim			
					e rail (but shall not count as a	an	
		1		intermediate li			_
	any	January 1994			all be fitted as close as practi		
	and after the vertical axis of stanchion bases but not further inboard than 1/3 the local half-beam.						
3.18	Toilet	•					_]
3.18.1		t, permanently	inst	alled			MoMu0,1,2
3.19	Bunks						
3.19.2		, permanently ir	nsta	lled			**
3.20	-	ng Facilities					
3.20.1				•	or securely fastened with safe		MoMu0,1,2,3
			f co	ntrol and capat	ole of being safely operated in	n a	
.	seawa	•					
3.21		ing Water Tar		& Drinking W	later		MoMu0,1,2,3
3.21.1		ing Water Tar					MoMu0,1,2,3
a) "	•	•		•	ed delivery pump and water t	dlik(S):	MoMu0,1,2,3 MoMu1
ii 3.21.3		ig the water sup gency Drinkin			vo compartments		MoMu1,1,2,3
a)			-		llons) of drinking water for e	mercency	MoMu1,2,3
 a) At least 9 litres (2 UK gallons, 2.4 US gallons) of drinking water for emergency M use shall be provided in a dedicated and sealed container or container(s) 							
3.22		Holds					
			sha	II be fitted belo	w deck so that crew member	rs may	**
	move about safely at sea.						
					anding without rupture a sid	e force of	
	1500N - attention is drawn to ISO 15085.						

3.23 Bilge Pumps and Buckets

the sea.3.23.2 Bilge pumps shall not be connected to cockpit drains. (OSR 3.09)3.23.3 Bilge pumps and strum boxes shall be readily accessible for maintenance and	
	**
	**
for clearing out debris	
3.23.4 Unless permanently installed, each bilge pump handle shall be provided with a	**
lanyard or catch or similar device to prevent accidental loss	
3.23.5 The following shall be provided:	Ma0 1 0
a) two permanently installed manual bilge pumps, one operable from above, the other from below deck. Each pump shall be operable with all cockpit seats,	Mo0,1,2
hatches and companionways shut and shall have permanently installed	
discharge pipe(s) of sufficient capacity to accommodate simultaneously both	
pumps	
f) two buckets of stout construction each with at least 9 litres (2 UK gallons, 2.4	**
US gallons) capacity. Each bucket to have a lanyard. 3.24 Compass	
3.24.1 The following shall be provided:-	
a) a marine magnetic compass, independent of any power supply, permanently	**
installed and correctly adjusted with deviation card, and	
b) a magnetic compass independent of any power supply, capable of being used	MoMu0,1,2,3
as a steering compass which may be hand-held	
3.25 Halyards. No mast shall have less than two halyards, each capable of hoisting a sail.	**
3.27 Navigation Lights (see OSR 2.03.3)	
3.27.1 Navigation lights shall be mounted so that they will not be masked by sails or	**
the heeling of the yacht.	
3.27.2 Navigation lights shall not be mounted below deck level and should be at no	**
less height than immediately under the upper lifeline.3.27.3 Navigation light intensity	
TABLE 11	
LOA Guide to required minimum power rating for an	
electric bulb in a navigation light	_
electric bulb in a navigation light under 12 m (39.4 ft) 10 W	_
electric bulb in a navigation lightunder 12 m (39.4 ft)10 W12 m (39.4 ft) and25 W	_
electric bulb in a navigation lightunder 12 m (39.4 ft)12 m (39.4 ft) and25 Wabove	 MoMu0,1,2,3
electric bulb in a navigation lightunder 12 m (39.4 ft)10 W12 m (39.4 ft) and25 W	 MoMu0,1,2,3
 electric bulb in a navigation light under 12 m (39.4 ft) 10 W 12 m (39.4 ft) and 25 W 3.27.4 Reserve navigation lights shall be carried having the same minimum specifications as the navigation lights above, with a separable power source, and wiring or supply system essentially separate from that used for the normal 	
 <i>electric bulb in a navigation light</i> <i>under 12 m (39.4 ft)</i> <i>10 W</i> <i>12 m (39.4 ft) and</i> <i>25 W</i> 3.27.4 Reserve navigation lights shall be carried having the same minimum specifications 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 	
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 <i>electric bulb in a navigation light</i> <i>under 12 m (39.4 ft)</i> <i>10 W</i> <i>12 m (39.4 ft) and</i> <i>25 W</i> <i>above</i> 3.27.4 Reserve navigation lights shall be carried having the same minimum specifications 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 spare bulbs for navigation lights shall be carried, or for lights not dependent or bulbs, appropriate spares. 3.28 Engines, Generators, Fuel 3.28.1 Propulsion Engines a) Engines and associated systems shall be installed in accordance with their manufacturers' guidelines and shall be of a type, strength, capacity, and installation suitable for the size and intended use of the yacht. b) An inboard propulsion engine when fitted shall: be provided with a permanently installed exhaust, coolant, and fuel supply systems and fuel tank(s); be securely covered; and have adequate protection from the effects of heavy weather. c) A propulsion engine required by Special Regulations shall provide a minimum 	** ** **
 <i>electric bulb in a navigation light</i> <i>under 12 m (39.4 ft)</i> <i>10 W</i> <i>12 m (39.4 ft) and</i> <i>25 W</i> <i>above</i> 3.27.4 Reserve navigation lights shall be carried having the same minimum specifications 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 spare bulbs for navigation lights shall be carried, or for lights not dependent or bulbs, appropriate spares. 3.28 Engines, Generators, Fuel 3.28.1 Propulsion Engines a) Engines and associated systems shall be installed in accordance with their manufacturers' guidelines and shall be of a type, strength, capacity, and installation suitable for the size and intended use of the yacht. b) An inboard propulsion engine when fitted shall: be provided with a permanently installed exhaust, coolant, and fuel supply systems and fuel tank(s); be securely covered; and have adequate protection from the effects of heavy weather. c) A propulsion engine required by Special Regulations shall provide a minimum speed in knots of (1.8 x square root of LWL in metres) or (square root of LWL 	** ** **
 <i>electric bulb in a navigation light</i> <i>under 12 m (39.4 ft)</i> <i>10 W</i> <i>12 m (39.4 ft) and</i> <i>25 W</i> <i>above</i> 3.27.4 Reserve navigation lights shall be carried having the same minimum specifications 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 spare bulbs for navigation lights shall be carried, or for lights not dependent or bulbs, appropriate spares. 3.28 Engines, Generators, Fuel 3.28.1 Propulsion Engines a) Engines and associated systems shall be installed in accordance with their manufacturers' guidelines and shall be of a type, strength, capacity, and installation suitable for the size and intended use of the yacht. b) An inboard propulsion engine when fitted shall: be provided with a permanently installed exhaust, coolant, and fuel supply systems and fuel tank(s); be securely covered; and have adequate protection from the effects of heavy weather. c) A propulsion engine required by Special Regulations shall provide a minimum speed in knots of (1.8 x square root of LWL in metres) or (square root of LWL in feet) 	** ** ** MoMu0,1,2,3
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 <i>electric bulb in a navigation light</i> <i>under 12 m (39.4 ft)</i> <i>10 W</i> <i>12 m (39.4 ft) and</i> <i>25 W</i> <i>above</i> 3.27.4 Reserve navigation lights shall be carried having the same minimum specifications 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 spare bulbs for navigation lights shall be carried, or for lights not dependent or bulbs, appropriate spares. 3.28 Engines, Generators, Fuel 3.28.1 Propulsion Engines a) Engines and associated systems shall be installed in accordance with their manufacturers' guidelines and shall be of a type, strength, capacity, and installation suitable for the size and intended use of the yacht. b) An inboard propulsion engine when fitted shall: be provided with a permanently installed exhaust, coolant, and fuel supply systems and fuel tank(s); be securely covered; and have adequate protection from the effects of heavy weather. c) A propulsion engine required by Special Regulations shall provide a minimum speed in knots of (1.8 x square root of LWL in metres) or (square root of LWL in feet) e) An inboard propulsion engine shall be provided for yachts 	** ** ** MoMu0,1,2,3

	shall have permanently installed exhaust, cooling and fuel supply systems and fuel tank(s), and have adequate protection from the effects of heavy weather.	
3.28.3 a)	Fuel Systems Each fuel tank provided with a shutoff valve. Except for permanently installed linings or liners, a flexible tank is not permitted as a fuel tank.	MoMu0,1,2,3
b)	The propulsion engine shall have a minimum amount of fuel which may be specified in the Notice of Race but if not, shall be sufficient to be able to meet charging requirements for the duration of the race and to motor at the above minimum speed for at least 8 hours	MoMu0,1,2,3
3.28.4 a)	Battery Systems When an electric starter is the only method for starting the engine, the yacht	MoMu0,1,2,3
- /	shall have a separate battery, the primary purpose of which is to start the engine	, , , -
b)	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	MoMu0,1,2,3
3.29	1/12 may continue in use for the remainder of their service lives. Communications Equipment, EPFS (Electronic Position-Fixing	**
3.29	System), Radar, AIS	
	Provision of GMDSS is unlikely to be mandatory for small craft during the term of the present Special Regulations.	МоМи0,1,2,3
3.29.1	The following shall be provided:	**
a)	A marine radio transceiver (or if stated in the Notice of Race, an installed satcom terminal), and	MoMu0,1,2,3
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 II	it shall have a rated output power of 25W it shall have a masthead antenna, and co-axial feeder cable with not more than	MoMu0,1,2,3 MoMu0,1,2,3
11	40% power loss	1101100,1,2,5
iii	the following types and lengths of co-axial feeder cable will meet the	МоМи0,1,2,3
	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).	
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)	МоМи0,1,2,3
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) n)	An EPFS (Electronic Position-Fixing System) (e.g. GPS) An AIS Transponder	MoMu0,1,2,3 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.	**

SECTION 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht

(for water & fuel see OSR 3.21 and OSR 3.28)

4.01 Sail Letters & Numbers

4.01.1 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.

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.	**
4.02 4.02.1	Hull marking (colour blaze) To assist in SAR location:-	Mo0,1,Mu0,1,2,3,4
н.02.1 b)	Each yacht is recommended to show at least 1 m^2 of fluorescent pink or orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen	MoMu1
4.02.3	Each yacht is recommended to show on each underwater appendage an area of highly-visible colour	ΜοΜυθ,1
4.03	Soft Wood Plugs 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 4.04.1	Jackstays, Clipping Points and Static Safety Lines Jackstays shall be provided-	MoMu0,1,2,3
a)	attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to provide secure attachments for safety harness:-	MoMu0,1,2,3 MoMu0,1,2,3
b)	comprising stainless steel 1×19 wire of minimum diameter 5 mm (3/16 in), high modulus polyethylene (such as Dyneema/Spectra) rope or webbing of equivalent strength;	MoMu0,1,2,3
c)	which, when made from stainless steel wire shall be uncoated and used without any sleeving;	MoMu0,1,2,3
<i>d)</i> 4.04.2	20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended; Clipping Points:- shall be provided-	МоМи0,1,2,3
a)	attached to through-bolted or welded deck plates or other suitable and strong anchorage points adjacent to stations such as the helm, sheet winches and masts, where crew members work for long periods:-	MoMu0,1,2,3
b)	which, together with jackstays and static safety lines shall enable a crew member-	MoMu0,1,2,3
i II	to clip on before coming on deck and unclip after going below; whilst continuously clipped on, to move readily between the working areas on deck and the cockpit(s) with the minimum of clipping and unclipping operations.	MoMu0,1,2,3 MoMu0,1,2,3
c)	The provision of clipping points shall enable two-thirds of the crew to be simultaneously clipped on without depending on jackstays	MoMu0,1,2,3
<i>e)</i> 4.05	<i>Warning - U-bolts as clipping points - see OSR 5.02.1(a)</i> Fire Extinguishers Shall be provided as follows:	МоМи0,1,2,3
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 4.06	A fire blanket adjacent to every cooking device with an open flame	**
4.06.1	Anchor(s) An anchor or anchors shall be carried according to the table below:	**
a) i	The following anchors shall be provided 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 suitable combination of chain and rope, all ready for immediate use	MoMu1,2,3
4.07 4.07.1	Flashlight(s) and Searchlight(s) The following shall be provided:-	
a)	A watertight, high-powered searchlight, suitable for searching for a person overboard at night and for collision avoidance with spare batteries and bulbs, and	**
b)	a watertight flashlight with spare batteries and bulb	**
4.08 4.08.1	First Aid Manual and First Aid Kit A suitable First Aid Manual shall be provided	** **

	In the absence of a National Authority's requirement, the latest edition of one	**
2)	of the following is recommended:- International Medical Guide for Ships, World Health Organisation, Geneva	MaMuQ 1
а) с)	Le Guide de la medecine a distance, by Docteur J Y Chauve, published by	<i>MoMu0,1</i> **
0	Distance Assistance BP33 F-La Baule, cedex, France.	
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	**
1.00.5	the Manual carried, the likely conditions and duration of the passage, and the number of people aboard the yacht.	
4.09	Foghorn	
4.09	A foghorn shall be provided	**
4.10	Radar Reflector	
4.10.1	An octahedral passive radar reflector shall be carried with circular sector plates	**
7.10.1	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 4.11.1	Charts	
4.11.1		**
	Navigational charts (not solely electronic), light list and chart plotting	
1117	equipment shall be provided	
4.11.2	Reserve Navigation System	MaMuQ 1
	Navigators are recommended to carry a sextant with suitable tables and a	MoMu0,1
	timepiece or an adequate reserve navigation system so that total reliance is	
	not placed on dead-reckoning and a single form of EPFS (Electronic Position-	
	Fixing System) (see Volpe Report at	
4.4.2	www.navcen.uscg.gov/archive/2001/Oct/FinalReport-v4.6.pdf)	
4.12	Safety Equipment Location Chart	**
	A safety equipment location chart in durable waterproof material shall be	ጥጥ
	displayed in the main accommodation where it can best be seen, clearly	
4.40	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 shall be provided	MoMu1,2,3,4
4.14	Speedometer or Distance Measuring Instrument (log)	
	A speedometer or distance measuring instrument (log) shall be provided	MoMu0,1,2,3
4.15	Emergency Steering	
4.15.1	Emergency steering shall be provided as follows:	
a)	except when the principal method of steering is by means of an unbreakable	MoMu0,1,2,3
	metal tiller, an emergency tiller capable of being fitted to the rudder stock;	
b)	crews must be aware of alternative methods of steering the yacht in any sea	MoMu0,1,2,3
	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.	
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 miscellaneous buoyant equipment, such as	**
	lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.	
4.18	Marine grade retro-reflective material	
	Marine grade retro-reflective material shall be fitted to lifebuoys, lifeslings,	**
	liferafts and lifejackets. See OSRs 5.04, 5.08.	
4.19	EPIRBs	
4.19.1	A 406 MHz EPIRB shall be provided	MoMu1,2
b)	It is recommended that a 406 MHz EPIRB should include an internal GPS, and	ΜοΜυθ,1,2
_	also a 121.5MHz transmitter for local homing.	
c)	Every EPIRB shall be registered with the appropriate authority associated with	MoMu0,1,2
	the country code in the hexadecimal identification (15 Hex ID) of the beacon.	
1	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	
d)	registration in the IBRD Every ship's 406 MHz EPIRB shall be water and manually activated.	MoMu0,1,2
u) <i>e)</i>	A list of registration numbers of 406 EPIRBs should be notified to event	MoMu0,1,2 MoMu0,1,2
<i>c)</i>	organizers and kept available for immediate use.	1101100,1,2
f)	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	МоМи0,1,2
	is abandoned.	
4.20	Liferafts	MoMu0,1,2
4.20.1 4.20.2	Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each	MoMu1,2
	liferaft shall comply with either:- Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version	Extract File
a)	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	MoMu1,2
b)	for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or	MoMu1,2
c)	OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or	MoMu1,2
d)	ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-	MoMu1,2
i	shall have a semi-rigid boarding ramp, and	MoMu1,2
ii	shall be so arranged that any high-pressure hose shall not impede the	MoMu1,2
	boarding process, and	
iii	shall have a topping-up means provided for any inflatable boarding ramp, and	MoMu1,2
iv	when the liferaft is designed with a single ballast pocket this shall be accepted	MoMu1,2
	provided the liferaft otherwise complies with ISO 9650 and meets a suitable	
V	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.	MoMu1,2
v 4.20.3	Liferaft Packing and Stowage	MoMu1,2 MoMu0,1,2
112010	A Liferaft shall be either:-	MoMu0,1,2
a)	packed in a transportable rigid container or canister and stowed on the working deck or in the cockpit, or:-	MoMu0,1,2
b)	packed in a transportable rigid container or canister or in a valise and stowed	MoMu0,1,2
	in a purpose-built rigid compartment containing liferaft(s) only and opening	
	into or adjacent to the cockpit or working deck, or through a transom,	
	provided that:-	
i	each compartment is watertight or self-draining (self-draining compartments	MoMu0,1,2
	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-	
ii	the cover of each compartment is capable of being easily opened under water	MoMu0,1,2
	pressure, and-	
iii	the compartment is designed and built to allow a liferaft to be removed and	MoMu0,1,2
	launched quickly and easily, or-	
iv	in a yacht with age or series date before June 2001, a liferaft may be packed	MoMu1,2
	in a valise not exceeding 40kg securely stowed below deck adjacent to a	
	companionway.	MaMuO 1 2
V	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	MoMu0,1,2
	the yacht is inverted.	
c)	The end of each liferaft painter should be permanently made fast to a strong	MoMu0,1,2
•	point on board the yacht.	1101100/11/1
4.20.4	Liferaft Launching	MoMu0,1,2
a)	Each raft shall be capable of being got to the lifelines or launched within 15	MoMu0,1,2
	seconds.	
b)	Each liferaft of more than 40kg weight should be stowed in such a way that	МоМи0,1,2
4.20.5	the liferaft can be dragged or slid into the sea without significant lifting Liferaft Servicing and Inspection	MoMu0,1,2

	IMPORTANT NOTICE Recent evidence has shown that packaged liferafts are 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.	MoMu0,1,2
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 approved service station.	MoMu0,1,2
b)	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 NOT less frequently than every three years	MoMu1,2
e)	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 every three years.	MoMu1,2
f)	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 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.	МоМи0,1,2
<i>b)</i>	Note: it is not intended to duplicate in a grab bag items required by other OSRs to be on board the yacht - these recommendations cover only the stowage of those items	МоМи0,1,2
4.21.3	Grab Bag Recommended Contents	
a)	2 red parachute and 2 red hand flares and cyalume-type chemical light sticks (red flares compliant with SOLAS)	MoMu1,2
<i>b)</i>	watertight hand-held EPFS (Electronic Position-Fixing System) (eg GPS) in at least one of the grab bags carried by a yacht	MoMu1,2
с)	SART (Search and Rescue Transponder) in at least one of the grab bags carried by a yacht	MoMu1,2
d)	a combined 406MHz/121.5MHz EPIRB registered to the boat (see OSR 4.19.1) in at least one of the grab bags	MoMu1,2
<i>e)</i>	water in re-sealable containers or a hand-operated desalinator plus containers for water	MoMu1,2
f)	a watertight hand-held marine VHF transceiver plus a spare set of batteries	МоМи0,1,2
g)	a watertight flashlight with spare batteries and bulb	МоМи0,1,2
h) i)	dry suits or thermal protective aids or survival bags second sea anchor for the liferaft (not required if the liferaft has already a spare sea anchor in its pack) (recommended standard ISO 17339) with swivel and >30m line diameter >9.5 mm	МоМи0,1,2

j)	two safety tin openers (if appro	nriate)		ΜοΜ	u0,1,2
k)	first-aid kit including at least 2 t	-	sinas should he		u0,1,2
1.9	capable of being effectively use		-	11011	40/1/2
	clearly marked and re-sealable.				
1)	signalling mirror			MoM	u0,1,2
-		a nor norcon recommended	for Cat Zara)		
<i>m)</i>	high-energy food (min 10 000k				u0,1,2
n)	nylon string, polythene bags, se	PASICKNESS TADIETS (MIN 6 PER	r person	ΜΟΙΜ	u0,1,2
,	recommended)				
0)	watertight hand-held aviation V	HF transceiver (if race area i	warrants)	MOM	u0,1,2
4.22	Lifebuoys				
4.22.1	The following shall be provided	within reach of the helmsma	an and ready for	**	
	instant use:				
a)	a lifebuoy with a self-igniting lig	-		**	
b)	In addition to a) above, one life	buoy within reach of the hel	msman and ready	ΜοΜι	u0,1,2
	for instant use, equipped with:				
i	a whistle, a drogue, a self-igniti	ng light and		ΜοΜι	u0,1,2
ii	a pole and flag. The pole shall b	e either permanently extend	led or be capable	ΜοΜι	u0,1,2
	of being fully automatically exte	nded (not extendable by hai	nd) 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 I	pallasted that the flag will fly	v at least 1.8 m (6		
	ft) off the water.	<u> </u>	· ·		
4.22.2	When at least two lifebuoys (an	d/or Lifeslings) are carried, a	at least one of	ΜοΜι	u0,1,2
	them shall depend entirely on p				, ,
4.22.3	Each inflatable lifebuoy and any			**	
	by compressed gas) shall be tes		-		
	with its manufacturer's instruction				
4.22.4					
	material (4.18).				
4.22.5					
	yellow-red range.				
4.23	Pyrotechnic and Light Signa	lc			
4.23.1	Pyrotechnic signals shall be prov		SA Code Chanter	**	
1.2.3.1	III Visual Signals and not older	5	•		
	expiry date stamped , not older				
	red parachute flares LSA III	red hand flares LSA III	orange smoke LSA	TTT	race
	3.1	3.2	3.3	111	
	6	4			category
			2		MoMu0,1
	4	4	2		MoMu2,3
		4	2		Mo4
	2	4	2		Mu4
	TABLE 13				
4.24					
a)	a heaving line shall be provided 15 m - 25 m (50 ft - 75 ft) length readily **				
	accessible to cockpit.				
<i>b)</i> the "throwing sock" type is recommended - see Appendix D **					
c)	A lifesling shall be provided			ΜοΜι	u0,1,2,3
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

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

4.26.2 High Visibility

4.26.2	High Visibility	
a)	Every storm jib shall either be of highly-visible coloured material (e.g. dayglo pink, orange or yellow) or have a highly-visible coloured patch at least 50% of the area of the sail (up to a maximum diameter of 3m) added on each side; and also that a rotating wing mast should have a highly-visible coloured patch	**
	on each side. A storm sail purchased after January 2014 shall have the material of the body of the sail a highly-visible colour.	
<i>b)</i>	it is strongly recommended that the storm trysail should either be made of or have a patch of highly visible colour.	**
4.26.3	Materials	
a)	aromatic polyamides, carbon and similar fibres shall not be used in a trysail or storm jib but spectra/dyneema and similar materials are permitted.	**
<i>b)</i>	it is strongly recommended that a heavy-weather jib does not contain aromatic polyamides, carbon and similar fibres other than spectra/dyneema.	**
4.26.4	The following shall be provided:-	
a)	sheeting positions on deck for each storm and heavy-weather sail;	**
b)	for each storm or heavy-weather jib, a means to attach the luff to the stay, independent of any luff-groove device. A heavy weather jib shall have the means of attachment readily available. A storm jib shall have the means of attachment permanently attached;	**
	Storm and heavy weather jib areas shall be calculated as:	
	(0.255 x luff length x (luff perpendicular + 2 x half width))* To apply to sails	
	made in January 2012 and after.	
c)	a storm trysail which shall be capable of being sheeted independently of the boom with trysail area not greater than 17.5% mainsail hoist (P) 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.	MoMu 0,1,2
d)	the storm trysail as required by OSR 4.26.4 (c) shall have the yacht's sail number and letter(s) shall be placed on both sides of the trysail (or on a rotating wing mast as substitute for a trysail) in as large a size as practicable;	Extract MoMu 0,1,2
e)	a storm jib of area not greater than 5% height of the foretriangle squared, with luff maximum length 65% height of the foretriangle;	MoMu0,1,2
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.	МоМи0,1,2
k)	It is strongly recommended that an inner forestay is provided either permanently installed or readily set up, on which to set the storm jib.	МоМи0,1,2

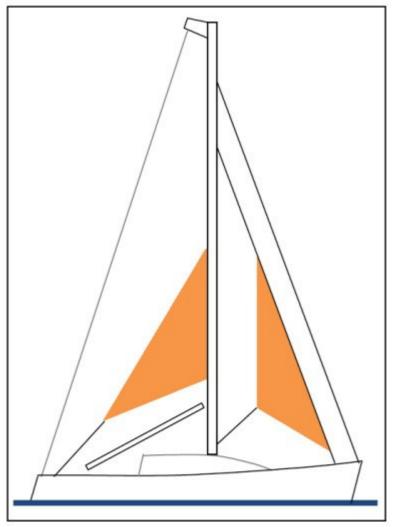


Figure 3

4.27 Drogue, Sea Anchor

4.27.1 A drogue for deployment over the stern, or alternatively a sea anchor or parachute anchor for deployment over the bow, complete with all gear needed to rig and deploy the sea anchor or drogue, is strongly recommended to withstand long periods in rough conditions (see Appendix F).

4.28 Man Overboard Alarm

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

MoMu0,1

MoMu1

MoMu0 MoMu1,2

	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 fundamental to the lifejacket functioning correctly.	**
c)	fitted with a lifejacket light in accordance with SOLAS LSA code 2.2.3 (white, >0.75 candelas, >8 hours),	**
d)	if inflatable have a compressed gas inflation system,	**
e)	if inflatable, regularly checked for gas retention,	**
f)	compatible with the wearer's safety harness,	**
g)	clearly marked with the yacht's or wearer's name,	**
j)	It is strongly recommended that a lifejacket has a splashguard / sprayhood See ISO 12402 – 8,	MoMu1,2,3,4
5.01.4	The person in charge shall personally check each lifejacket at least once annually.	**
5.02	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. Harnesses and safety lines manufactured prior to Jan 2010 shall comply with either ISO 12401 or EN 1095.	MoMu0,1,2,3
	Harnesses and safety lines manufactured prior to Jan 2001 are not permitted.	
a)	Warning it is possible for a plain snaphook to disengage from a U bolt if 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	MoMu0,1,2,3
	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)	a safety line not more than 1m long, or	MoMu0,1,2,3
b)	a mid-point snaphook on a 2m safety line	MoMu0,1,2,3
5.02.3	A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency.	MoMu0,1,2,3
5.02.4	A crew member's lifejacket and harness shall be compatible	MoMu0,1,2,3
5.02.5	It is strongly recommended that:-	MoMu0,1,2,3
a)	static safety lines should be securely fastened at work stations;	ΜοΜυθ,1,2,3
<i>b</i>)	A harness should be fitted with a crotch strap or thigh straps.	ΜοΜυθ,1,2,3
<i>c</i>)	to draw attention to wear and damage, stitching on harness and safety lines should be of a colour contrasting strongly with the surrounding material;	MoMu0,1,2,3
d)	snaphooks should be of a type which will not self-release from a U-bolt (see OSR 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);	МоМи0,1,2,3
e)	a crew member before a race should adjust a harness to fit then retain that harness for the duration of the race.	MoMu0,1,2,3
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	**
5.07 d)	Survival Equipment 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	MoMu0 <i>MoMu0,1,2</i>
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.	MoMu0,1,2
SECT	ION 6 - TRAINING	
6.01	At least 30% but not fewer than two members of a crew, including the 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.	MoMu1,2
6.01.3	It is strongly recommended that all crew members should undertake training as in OSR 6.01 at least once every five years	MoMu1,2
6.01.4 6.02	Except as otherwise provided in the Notice of Race, an in-date certificate gained 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. Training Topics for Theoretical Sessions	MoMu0,1,2
6.02.1	care and maintenance of safety equipment	MoMu0,1,2
6.02.2	storm sails	MoMu0,1,2 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 <i>6.04.1</i>	Routine Training On-Board <i>It is recommended that crews should practice safety routines at reasonable</i>	**
0.04.1	intervals including the drill for man-overboard recovery	
	At least two members of the crew	MoMu1
	shall have a first aid certificate completed within the last five years meeting	
i	any of the following requirements: A certificate listed on the ISAF website www.sailing.org/specialregs of MNA	
ii	recognised courses STCW 95 First Aid Training complying with A-VI/1-3 – Elementary First Aid or	
6.05.4	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)

m1	A monohull with the earliest of Age or Series Date before the 1 January 2010					
	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			
m2	A yacht defined in the table above sha	all have been designed built, maintained,	MoMu0,1,2			
	modified and repaired in accordance w	vith the requirements of either:				
a)	the EC Recreational Craft Directive for	Category A (having obtained the CE	MoMu0,1,2			
	mark), or					
b)	the ABS Guide for Building and Classin	ng Offshore Yachts in which case the	MoMu0,1,2			
	yacht 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 b	built the yacht in accordance with the ABS				
	Guide,					
c)	ISO 12215 Category A, with written st	atements signed by the designer and	MoMu0,1,2			
	builder which confirm that they have respectively designed and built the yacht					
	in accordance with the ISO standard,					
d)	• •	ules may accept when that described in	MoMu0,1,2			
	(a), (b), or (c) above is not available,	the signed statement by a naval				
	•	the standards listed above that the yacht				
	fulfills the requirements of (a), (b), or					
m3	Any significant repairs or modification		MoMu0,1,2			
	appendages, on a yacht defined in tak	•				
		ritten statement or statements shall be				
	on board.					

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