## ISAF OFFSHORE SPECIAL REGULATIONS

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



## **Extract for Race Category 0 Multihulls**

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

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

## **Language & Abbreviations Used**

Mo - Monohull

Mu - Multihull

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

RED TYPE indicates a significant changes in 2015

Guidance notes and recommendations are in italics

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

## **Administration**

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

ISAF Regulation 6.8.8.3 - The Special Regulations Sub-Committee shall: (a) be responsible for the maintenance, revision and changes to the ISAF Offshore Special Regulations governing offshore racing, under licence from ORC Ltd. Such changes shall be biennial with revised editions published in January of each even year, except that matters of an urgent nature affecting safety may be dealt with by changes to the Regulations on a shorter time scale;

(b) monitor developments in offshore racing relative to the standards of safety and seaworthiness.

Any queries please E-Mail: technical@isaf.co.uk

## **SECTION 1 - FUNDAMENTAL AND DEFINITIONS**

## 1.01 Purpose and Use

1.01.1 It is the purpose of these Special Regulations to establish uniform minimum equipment, accommodation and training standards for monohull and multihull yachts racing offshore. A Proa is excluded from these

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regulations.

- 1.01.2 These Special Regulations do not replace, but rather supplement, the requirements of governmental authority, the Racing Rules and the rules of Class Associations 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				
	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			
	provides GMDSS satellite distress and safety			

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	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	Lead or other material including water which has no practical
Ballast	function in the boat other than to increase weight and/or to
	influence stability and/or trim and which may be moved
ORC	transversely but not varied in weight while a boat is racing.
OSR	Offshore Racing Congress (formerly Offshore Racing Council)
Permanently	Offshore Special Regulation(s)  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-
Fastened	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
0 0. 6.	or varied in weight while a boat is racing.
Static Safety	A safety line (usually shorter than a safety line carried with a
Line	harness) kept clipped on at a work-station
Variable	Water carried for the sole purpose of influencing stability
Ballast	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:

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## 2.01.1 Category 0

	Trans-oceanic races, including races which pass through areas in which air or sea temperatures are likely to be less than 5 degrees Celsius other than temporarily, where yachts must be completely self-sufficient for very extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies without the expectation of outside	MoMu,0
	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	**
o)	be regularly checked, cleaned and serviced	**
c)	when not in use be stowed in conditions in which deterioration is minimised	**
d)	be readily accessible be of a type, size and capacity suitable and adequate for the intended use	**
e) 2.03.2	and size of the yacht.  Heavy items:	
a)	ballast, ballast tanks and associated equipment shall be permanently	**
~)	installed	
o)	heavy movable items including e.g. batteries, stoves, gas bottles, tanks,	**
	toolboxes and anchors and chain shall be securely fastened	
c)	heavy items for which fixing is not specified in Special Regulations shall	**
	be permanently installed or securely fastened, as appropriate	**
2.03.3 a)	When to show navigation lights navigation lights (OSR 3.27) shall be shown as required by the	**
1)	International Regulations for Preventing Collision at Sea, (Part C and	
	Technical Annex 1). All yachts shall exhibit sidelights and a sternlight at	
	the required times.	
SECTIO	N 3 - STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT	
3.01	Strength of Build, Ballast and Rig	
	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	**
7.02.5	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.	

2.02	Hall Construction Classical (Constitute)	M-M-0 1 2
3.03	Hull Construction Standards (Scantlings)	MoMu0,1,2
3.03.4	A multihull shall comply with appendix M to these OSR.	Extract Mo0,1,2
3.05	Stability and Flotation - Multihulls	Mu0,1,2,3,4
	Attention is drawn to ISO 12217-2.	<i>Mu0,1,2,3,4</i>
3.05.1	Adequate watertight bulkheads and compartments (which may include	Mu0,1,2,3,4
	permanently installed flotation material) in each hull shall be provided to	
	ensure that a multihull is effectively unsinkable and capable of floating in	
	a stable position with at least half the length of one hull flooded. (see	
	OSR 3.13.2).	
3.05.2	Multihulls built on or after Jan 1999 shall in every hull without	Mu0,1,2,3,4
	accommodation be divided at intervals of not more than 4m (13ft 3") by	
	one or more transverse watertight bulkheads	
3.05.3	A yacht shall be designed and built to resist capsize.	Mu0,1,2,3,4
3.07	Exits and Escape Hatches - Multihulls	Mu0,1,2,3,4
3.07.1	Exits	
a)	In a multihull of 8m (26.2ft) LOA and greater, each hull which contains	Mu0,1,2,3,4
/	accommodation shall have at least two exits.	. 100/=/=/0/ .
b)	In a multihull of less than 8m (26.2ft) LOA each hull which contains	Mu0,1,2,3
5)	accommodation shall have at least two exits.	1140/1/2/5
3.07.2	Escape Hatches, Underside Clipping Points & Handholds	
a)	In a multihull of 12m (39.4ft) LOA and greater each hull which contains	Mu0,1,2,3,4
u)	accommodation shall:-	1140,1,2,3,1
i	have an escape hatch for access to and from the hull in the event of an	Mu0,1,2,3,4
•	inversion;	. 100/1/2/0/
ii	when first launched on or after January 2003 have a minimum clearance	Mu0,1,2,3,4
••	diameter through each escape hatch of 450mm or when an escape hatch	. 100/1/2/0/
	is not circular, sufficient clearance to allow a crew member to pass	
	through fully clothed;	
iii	when first launched prior to January 2003, if possible have each escape	Mu0,1,2,3,4
***	hatch in compliance with the dimensions in OSR 3.07.2(a)(ii);	1140/1/2/0/1
iv	when the yacht is inverted have each escape hatch above the waterline;	Mu0,1,2,3,4
V	when first launched on or after January 2001 have each escape hatch at	Mu0,1,2,3,4
•	or near the midships station;	1140,1,2,3,1
vi	in a catamaran first launched on or after January 2003 have each escape	Mu0,1,2,3,4
٧.	hatch on the side nearest the vessel's central axis.	110,1,2,3,1
b)	A trimaran of 12m (39.4ft) LOA and greater first launched on or after	Mu0,1,2,3,4
J)	1/03 shall have at least two escape hatches in compliance with the	1140,1,2,3,1
	dimensions in OSR 3.07.2(a) (ii)	
c)	Each escape hatch must have been opened both from inside and outside	Mu0,1,2,3,4
C)	within 6 months prior to an intended race	1140,1,2,5,1
d)	A multihull shall have on the underside appropriate handholds/clipping	Mu0,1,2,3,4
u)	points sufficient for all crew (on a trimaran these shall be around the	1140,1,2,5,1
	central hull).	
e)	A catamaran first launched on or after 1/03 with a central nacelle shall	Mu0,1,2,3,4
C)	have on the underside around the central nacelle, handholds of sufficient	1140,1,2,5,1
	capacity to enable all persons on board to hold on and/or clip on securely	
f)	In a catamaran with a central nacelle, it is recommended that each hull	Mu0,1,2,3,4
'/	has an emergency refuge, accessible via a special hatch in the side of the	1140,1,2,3,1
	hull nearest the vessel's central axis, which hatch may be opened and	
	closed from the inside and outside	
3.08	Hatches & Companionways	
3.08.1	No hatch forward of the maximum beam station, other than a hatch in	**
2.00.1	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	
3 UO J	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:	

	WHOT TO BE OBENED AT CEAN Attention in during to CD 2 02 1	
3.08.3	"NOT TO BE OPENED AT SEA" Attention is drawn to SR 3.02.1  A hatch shall be:	
b)	permanently attached	**
c)	capable of being firmly shut immediately and remaining firmly shut in a	**
,	180 degree capsize (inversion)	
3.08.4	A companionway hatch shall:	
a)	be fitted with a strong securing arrangement which shall be operable	**
<b>b</b> )	from the exterior and interior including when the yacht is inverted have any blocking devices:	**
b) 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	**
3.08.7	A companionway hatch extending below the local sheerline and shall	Mu0,1,2,3,4
a)	comply with either (a) or (b): be capable of being blocked off up to the level of the local sheerline,	Mu0,1,2,3,4
a)	whilst giving access to the interior with the blocking devices (e.g.	11110,1,2,3,7
	washboards) in place with a minimum sill height of 300 mm.	
b)	, , , , , , , , , , , , , , , , , , ,	
i	A companionway hatch shall be in compliance with ISO 11812 –	Mu0,1,2,3
2.00	Watertight cockpits and quick-draining cockpits to design category A	
<b>3.09</b> 3.09.1	Cockpits - Attention is Drawn to ISO 11812 Cockpits shall be structurally strong, self-draining quickly by gravity at all	**
5.05.1	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	dede
3.09.3	A bilge pump outlet pipe shall not be connected to a cockpit drain. See	**
3.09.4	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	**
5.05.1	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	**
2 00 7	in area than 50% maximum cockpit depth x maximum cockpit width.	
<b>3.09.7</b> i)	Cockpit Volume earliest of age or series date before April 1992	
'/	the total volume of all cockpits below lowest coamings shall not exceed	Extract MoMu0,1
	6% (LWL x maximum beam x freeboard abreast the cockpit).	=/(0.0001.001.00/2
ii)	earliest of age or series date April 1992 and after	
	as above for the appropriate category except that "lowest coamings" shall	Extract **
	not include any aft of the FA station and no extension of a cockpit aft of	
	the working deck shall be included in calculation of cockpit volume IMS-rated boats may instead of the terms LWL, maximum beam,	Extract **
	freeboard abreast the cockpit, use the IMS terms L, B and FA.	LAttact
3.09.8	Cockpit Drains	
	See OSR 3.09.1. Cockpit drain cross section area (after allowance for	
,	screens if fitted) shall be:-	**
a)	in yachts with earliest of age or series date before 1/72 or in any yacht under 8.5m (28ft) LOA - at least that of 2 x 25mm diameter (one inch)	<b>^</b>
	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.	
	openingo onan de providear	

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.	
3.13	Watertight Bulkheads	
	multihulls also see OSR 3.05	Mu0,1,2,3,4
3.13.1	A hull shall have either a watertight "crash" bulkhead within 15% of LOA	Mo0Mu0,1,2,3,4
0.10.1	from the bow and abaft the forward end of LWL, or permanently installed	. 1001 100/2/2/0/ 1
	closed-cell foam buoyancy effectively filling the forward 30% LOA of the	
	hull.	
3.13.2	Any required watertight bulkhead shall be strongly built to take a full	Mo0Mu0,1,2,3,4
3.13.2	head of water pressure without allowing any leakage into the adjacent	11001100,1,2,3,1
	compartment.	
3.14	Pulpits, Stanchions, Lifelines	
3.14.1	When due to the particular design of a multihull it is impractical to	Mun 1 2 2 4
5.14.1	precisely follow Special Regulations regarding pulpits, stanchions, lifelines,	Mu0,1,2,3,4,
	the regulations for monohulls shall be followed as closely as possible with	
	the aim of minimising the risk of people falling overboard.	
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	11-11-
	between supports of an upper or single lifeline, the lifeline shall not	
	deflect more than 50mm. This measurement shall be taken at the widest	
<b>L</b> )	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	ጥጥ
	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	
2 1 / 2	stanchions.	**
3.14.3	The following shall be provided:	**
c)	lifelines (guardlines) supported on stanchions, which, with pulpits, shall	11-11-
	form an effectively continuous barrier around a working deck for man-	
	overboard prevention. Lifelines shall be permanently supported at	
	intervals of not more than 2.20m (86.6") and shall not pass outboard of	
۹/	supporting stanchions	**
d)	upper rails of pulpits at no less height above the working deck than the	11-11-
۵۱	upper lifelines as in Table 7.	**
e)	Openable upper rails in bow pulpits shall be secured shut whilst racing	**
f)	Pulpits and stanchions shall be permanently installed. When there are	11-11-
	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	
۵)	stanchions shall be through-bolted, bonded or welded.	**
g)	The bases of pulpits and stanchions shall not be further inboard from the	11-11-
	edge of the appropriate working deck than 5% of maximum beam or 150	
<b>b</b> )	mm (6 in), whichever is greater.	**
h)	Stanchion or pulpit or pushpit bases shall not be situated outboard of a	11-11-
	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	ጥጥ
	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	-12-42-
	through, adequately braced stanchions set inside and overlapping the	
	bow pulpit, provided that the gap between the upper lifeline and the bow	
1.3	pulpit does not exceed 150 mm (6 in).	**
k)	Lifelines shall be continuous and fixed only at (or near) the bow and	ጥጥ
	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	
1)	3.14.6 (c) shall not modify tension in the lifeline.  Stanchions shall be straight and vertical except that:-	**
l) i	within the first 50 mm (2 in) from the deck, stanchions shall not be	**
1	displaced horizontally from the point at which they emerge from the deck	
	or stanchion base by more than 10 mm (3/8 in), and	
ii	stanchions may be angled to not more than 10 degrees from vertical at	**
11	any point above 50 mm (2 in) from the deck.	
m)	It is strongly recommended that designs also comply to ISO 15085	**
3.14.4	Special Requirements for Pulpits, Stanchions, Lifelines on	Mu0,1,2,3,4
J.1	Multihulls	1140/1/2/0/1
	The following shall be provided:-	
a)	on a trimaran - a bow pulpit on the main hull, with lifelines around the	Mu0,1,2,3,4
/	main hull supported on stanchions. The lifelines may be interrupted	, _ , _ , _ , _ ,
	where there are nets or crossbeam wings outboard of the main hull	
b)	on a trimaran - where a net joins the base of a bow pulpit on the main	Mu0,1,2,3,4
,	hull, an additional lifeline from the top of the pulpit to the forward	
	crossbeam at or outboard of the crossbeam mid-point.	
c)	on a trimaran - at a main or emergency steering position on an outrigger	Mu0,1,2,3,4
	with or without a cockpit, lifelines protecting an arc of 3 meters diameter	
	centred on the steering position. (When measuring between lifelines their	
	taut, undeflected positions shall be taken for this purpose).	
d)	on a catamaran - lifelines from bow to stern on each hull and transverse	Mu0,1,2,3,4
	lifelines to form an effectively continuous barrier around the working	
	area for man-overboard prevention. The transverse lifelines shall be	
	attached to bow and stern pulpits or superstructure. A webbing, strop or	
	rope (minimum diameter 6mm) shall be rove zig-zag between the	
	transverse lifelines and the net.	

## 3.14.5 Lifeline Height, Vertical Openings, Number of Lifelines

TABLE 7	.g,	<b>3-7</b>	**
LOA	earliest of age/seriesdate	minimum requirements	Category
under 8.5 m(28 ft)	before January 1992	single lifeline at a height of no less than 450 mm (18 in) above the working deck. No vertical opening shall exceed 560 mm (22 in).	**
under 8.5 m(28 ft)	January 1992 and after	as for under 8.5 m(28 ft) in table 7 above, except that when an intermediate lifeline is fitted no vertical opening shall exceed 380 mm (15 in).	**
8.5 m (28 ft) and over	before January 1993	double lifeline with upper lifeline at a height of no less than 600 mm (24 in) above the working deck. No vertical opening shall exceed 560 mm (22 in)	**
8.5 m (28 ft)and over	January 1993 and after	as 8.5 m (28 ft) and over in Table 7 above, except that no vertical opening shall exceed 380 mm (15 in).	**
all	all	on yachts with intermediate lifelines the	**

intermediate line shall be not less than

# 3.14.6 Lifeline Minimum Diameters, Required Materials, Specifications

- - High Modulus Polyethylene (HMPE) (Dyneema®/Spectra® or Mo4,Mu\*\* 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 \*\*

	sleeving, however, to regularly removed for		may be fitted provided it is		
<i>d)</i> <b>e)</b>	When stainless wire is used, Grade 316 is recommended. When HMPE (Dyneema®/Spectra®) is used, it shall be protected from chafe and shall be spliced in accordance with the manufacturer's				** Mo4,Mu**
f)	the gap it closes does	thetic rope may b s not exceed 100	e used to secure lifelines promm (4 in). This lanyard shall		**
g)	lifeline enclosure syst	norage points, fixt tem which has at	tures and lanyards shall comp all points at least the breakin		**
	strength of the requirement of the requirement of the requirement of the strength of the requirement of the				**
	LOA	wire	HMPE rope (Single braid)	HMPF	Core (Braid
	LOA	WIIC	Thin E rope (Single Braid)	on bra	•
	under 8.5m (28ft)	3mm (1/8 in)	4mm (5/32 in)		5/32 in)
	8.5m - 13m	4mm (5/32 in)	5mm (3/16 in)		3/16 in)
	over 13m (43 ft)	5mm (3/16in)	5mm (3/16in)	5mm (	(3/16in)
3.15	Multihull Nets or T	-			
3.15.1		erchangeable with	n the word "trampoline"		Mu0,1,2,3,4
-\	A net shall be:-				Mu0.1.2.3.4
a)	essentially horizontal		ator pormoable fabric or mo	ch	Mu0,1,2,3,4
b)			ater permeable fabric, or me (2 inches) in any dimension.	511	Mu0,1,2,3,4
		_	avoid chafe. The junction bet	tween	
	a net and a yacht sha	-	_		
c)	-	•	nsverse and longitudinal supp	ort	Mu0,1,2,3,4
-	lines and shall be fine	e-stitched to a bol	t rope		
d)			w either in normal working		Mu0,1,2,3,4
			when the yacht is inverted.		
<i>e)</i>			ie the nets should be individu o more than four attachment	•	Mu0,1,2,3,4
3.15.2	Trimarans with Do	uble Crossbeam	15		
a)			all have nets on each side		
b)			ms, central hull and outrigge		Mu0,1,2,3,4
c)		•	the central pulpit, the mid-porsection of the crossbeam and		Mu0,1,2,3,4
d)		by the aftermost	part of the cockpit or steering	1	Mu0,1,2,3,4
۵	position (whichever is	s furthest aft), the	e mid-point of each after crossbeam and the central h		. 100/1/2/0/
e)	the requirement in O	• •	I not apply when cockpit coar ply with the minimum height	mings	Mu0,1,2,3,4
	requirements in Table	e 7			
3.15.3	Trimarans with Sin	_			
a)		_	all have nets between the cer	ntral	Mu0,1,2,3,4
b)	hull and each outrigg on each side between		s from the intersection of the	2	Mu0,1,2,3,4
	crossbeam and the o the central hull, and position on the central	utrigger, respective to the aftermost p	vely to the aft end of the pulp point of the cockpit or steering	oit on	
3.16	<b>Catamarans</b> On a catamaran the t	total not curfoce o	hall ha limitad:		
a)	laterally by the hulls;		onan De IIIIIILEU:		Mu0,1,2,3,4
b)			rough the forestay base, and	the	Mu0,1,2,3,4

3.18	aftermost point of the boom lying fore and aft. However, a catamaran with a central nacelle (non-immersed) may satisfy the regulations for a trimaran <b>Toilet</b>	
3.18.1 <b>3.19</b>	A toilet, permanently installed  Bunks	MoMu0,1,2
3.19.1 3.19.2 <b>3.20</b>	Bunks, permanently installed, one for each member of the declared crew Bunks, permanently installed  Cooking Facilities	MoMu0 **
3.20.1	A cooking stove, permanently installed or securely fastened with safe accessible fuel shutoff control and capable of being safely operated in a seaway.	MoMu0,1,2,3
3.21	Drinking Water Tanks & Drinking Water	MoMu0,1,2,3
<b>3.21.1</b> a)	<b>Drinking Water Tanks</b> A yacht shall have a permanently installed delivery pump and water tank(s):	<b>MoMu0,1,2,3</b> MoMu0,1,2,3
i <b>3.21.2</b>	dividing the water supply into at least three compartments <b>Drinking Water</b>	MoMu0
a)	Each yacht shall have the necessary equipment (which may include watermakers and tanks containing water) permanently installed to provide at least 3 litres of drinking water per person per day for at least the likely duration of the voyage	MoMu0
3.21.3	Emergency Drinking Water	MoMu0,1,2,3
b)	In the absence of a power driven watermaker, at least 1 litre per person per day in at least two separate containers shall be provided for the expected duration of the voyage	MoMu0
c)	When a power-driven watermaker is on board, at least 500ml per person per day in at least two separate containers shall be provided for the expected duration of the voyage	MoMu0
d)	Facilities shall be provided to collect rainwater for drinking purposes including when dismasted	MoMu0
e)	All drinking water and any desalination units should be so arranged that drinking water is readily accessible when the yacht is inverted.	Mu0
3.22	Hand Holds	**
	Adequate hand holds shall be fitted below deck so that crew members may move about safely at sea.	7.7
2 22	A hand hold should be capable of withstanding without rupture a side force of 1500N - attention is drawn to ISO 15085.	
<b>3.23</b> 3.23.1	<b>Bilge Pumps and Buckets</b> No bilge pump may discharge into a cockpit unless that cockpit opens aft to the sea.	**
3.23.2 3.23.3	Bilge pumps shall not be connected to cockpit drains. (OSR 3.09) Bilge pumps and strum boxes shall be readily accessible for maintenance	** **
3.23.4	and for clearing out debris 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 b)	The following shall be provided: one permanently installed manual bilge pump either above or below deck. The pump shall be operable with all cockpit seats, hatches and	Mu0,1,2
	companionways shut and shall have a permanently installed discharge pipe.	
c)	multihulls shall have provision to pump out all watertight compartments (except those filled with impermeable buoyancy).	Mu0,1,2,3,4
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 a)	The following shall be provided:- a marine magnetic compass, independent of any power supply, permanently installed and correctly adjusted with deviation card, and	**

b)		ependent of any power supply, capable of being	MoMu0,1,2,3
3.25	used as a steering compa Halyards.		
3.26	No mast shall have less t <b>Bow Fairlead</b>	han two halyards, each capable of hoisting a sail.	**
	A bow fairlead, closed or suitable for towing shall I	closable and a cleat or securing arrangement, be permanently installed.	Mo0
<b>3.27</b> 3.27.1	Navigation Lights (see	e OSR 2.03.3) mounted so that they will not be masked by	**
5.27.1	sails or the heeling of the	·	
3.27.2	5	t be mounted below deck level and should be at	**
3.27.3	no less height than imme Navigation light intensity	ediately under the upper lifeline.	
5.27.5	TABLE 11		
	LOA	Guide to required minimum power rating for	
	day 12 (20 4 ft)	an electric bulb in a navigation light	
	under 12 m (39.4 ft) 12 m (39.4 ft) and	10 W 25 W	
	above	25 W	
3.27.4	5 5	shall be carried having the same minimum	MoMu0,1,2,3
	•	gation lights above, with a separable power	
		oply system essentially separate from that used	
3.27.5	for the normal navigation	n lights shall be carried, or for lights not	**
312713	dependent on bulbs, app		
3.28	Engines, Generators, I	Fuel	
3.28.1	Propulsion Engines		**
a)	_	systems shall be installed in accordance with their s and shall be of a type, strength, capacity, and	**
	_	ne size and intended use of the yacht.	
b)		igine when fitted shall: be provided with a	**
	. ,	naust, coolant, and fuel supply systems and fuel	
		ered; and have adequate protection from the	
c)	effects of heavy weather  A propulsion engine requ	iired by Special Regulations shall provide a	MoMu0,1,2,3
C)		of (1.8 x square root of LWL in metres) or	1101100,1,2,3
	(square root of LWL in fe	eet)	
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,	
		itly installed exhaust, cooling and fuel supply	
	,	, and have adequate protection from the effects	
2 20 2	of heavy weather.		
<b>3.28.3</b> a)	Fuel Systems  Fach fuel tank provided y	with a shutoff valve. Except for permanently	MoMu0,1,2,3
u)	-	a flexible tank is not permitted as a fuel tank.	1101100,1,2,3
b)		nall have a minimum amount of fuel which may	MoMu0,1,2,3
	-	e of Race but if not, shall be sufficient to be able	
	at the above minimum sp	ments for the duration of the race and to motor	
3.28.4	Battery Systems	occu for at icast o flours	
a)		is the only method for starting the engine, the	MoMu0,1,2,3
	•	ate battery, the primary purpose of which is to	
h)	start the engine	on hoard shall be of the socied time from while	MaMun 1 2 2
b)		s on board shall be of the sealed type from which escape. Other types of battery installed on board	MoMu0,1,2,3
	at 1/12 may continue in		
	•		

3.29	Communications Equipment, EPFS (Electronic Position-Fixing System), Radar, AIS	**
	Provision of GMDSS is unlikely to be mandatory for small craft during the term of the present Special Regulations.	MoMu0,1,2,3
3.29.1	The following shall be provided:	**
a)	A marine radio transceiver (or if stated in the Notice of Race, an installed satcom 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	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 40% power loss	MoMu0,1,2,3
iii	the following types and lengths of co-axial feeder cable will meet the requirements of OSR 3.29.1 (b)(ii): (a) up to 15m (50ft) - type RG8X ("mini 8"); (b) 15-28m (50-90ft) - type RG8U; (c) 28-43m (90-140ft) -	MoMu0,1,2,3
	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 common use, has become widely accepted as primary choice for ocean	MoMu0,1,2,3
	racing yachts anywhere in the world)	
v vi	VHF transceivers installed after 31 December 2015 shall be DSC capable DSC capable VHF transceivers shall be programmed with an assigned MMSI (unique to the boat), be connected to a GPS receiver and be capable of making distress alert calls as well as sending and receiving a	MoMu1,2,3 MoMu1,2,3
vii	DSC position report with another DSC equipped station  Notwithstanding OSR 3.29.1 (b) a yacht in a Category Zero race shall have a marine VHF DSC radio in accordance with OSR 3.29.1 (b) (I) and (ii) covering all international and US marine channels and meeting the	MoMu0
	class D specification of the ITU.	
c)	At least two hand-held satellite telephones, watertight or with waterproof covers and internal batteries. When not in use each to be stowed in a	MoMu0
٦/	grab bag (see OSR 4.21)	MaMilo
d)	At least two hand-held marine VHF transceivers each with min 5w output power, watertight or with waterproof covers. When not in use to be	MoMu0
6	stowed in a grab bag (see OSR 4.21)	**
f)	Independent of a main radio transceiver, a radio receiver capable of receiving weather bulletins	
g)	It is strongly recommended that a hand-held watertight transceiver operating on one or more aviation frequencies including 121.5MHz should be provided. This will enable communications between the yacht and aircraft on SAR duties, not all of which have maritime VHF. When not in use to be stowed in a grab bag (see OSR 4.21.2)	МоМиО
h)	A D/F (direction-finding) radio receiver operating on 121.5MHz to take a bearing on a PLB or EPIRB, or an alternative device for man-overboard location when each crew member has an appropriate personal unit (see OSR 5.07);	MoMu0
i)	An EPFS (Electronic Position-Fixing System) (e.g. GPS)	MoMu0,1,2,3
j)	A Standard-C satellite terminal (GMDSS) shall be permanently installed and permanently powered up for the duration of the race and for which	MoMu0
k)	the race committee shall have polling authority.  An MF/HF marine SSB transceiver (GMDSS/DSC) with at least 125 watts transmitter power and frequency range from at least 1.6 to 29.9 MHz with	MoMu0
13	permanently installed antenna and earth.	MaMuO
l) i	An active radar set permanently installed either:  A pulse (magnetron) unit with not less than 4kW PEP and an antenna unit	MoMu0
ii	with a maximum dimension not less than 533mm; Or A frequency modulated continuous wave (FMCW) Broadband Radar™ unit	

	The radar antenna unit shall remain essentially horizontal when the yacht is heeled and at least 7 meters above the water. Installations in place before January 2006 shall comply as closely as possible with OSR 3.29(L).	
_m)	A class A AIS	MoMu0
p)	The AIS Transponder shall share the masthead VHF antenna via a low	MoMu0,1,2
	loss AIS antenna splitter. An acceptable alternative is a dedicated AIS	
	antenna that is a minimum of 381mm long, mounted with its base at	
	least 3 meters above the water, and fed with coax cable that has a	
2 20 2	maximum 40% power loss.	**
3.29.2	Yachts are reminded that no reflector, active or passive, is a guarantee of	au au
2)	detection or tracking by a vessel using radar.  The attention of persons in charge is drawn to logislation in force or	**
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.	
SECTIO	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht	
	ter & fuel see OSR 3.21 and OSR 3.28)	
<b>4.01</b>	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	**
4.00	displayed by alternative means when none of the numbered sails is set.	M-0.4 M-0.4.2.2.4
<b>4.02</b>	Hull marking (colour blaze)	Mo0,1,Mu0,1,2,3,4
4.02.1 a)	To assist in SAR location:- Each yacht shall show at least 4 m^2 of fluorescent pink or orange or	MoMu0
a)	yellow colour as far as possible in a single area on the coachroof and/or	MoMuo
	deck where it can best be seen	
4.02.2	Multihulls shall show on the underside, where they can be seen when	Mu0,1,2,3,4
	inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange,	
	or yellow) of at least 1m^2	
4.02.3	Each yacht is recommended to show on each underwater appendage an	MoMu0,1
	area of highly-visible colour	
4.03	Soft Wood Plugs	
	Soft wood plugs, tapered and of the appropriate size, shall be attached or	**
4.04	stowed adjacent to the appropriate fitting for every through-hull opening.	
<b>4.04</b> 4.04.1	Jackstays, Clipping Points and Static Safety Lines Jackstays shall be provided-	MaMuO 1 2 2
a)	attached to through-bolted or welded deck plates or other suitable and	MoMu0,1,2,3 MoMu0,1,2,3
a)	strong anchorage fitted on deck, port and starboard of the yacht's centre	1101100,1,2,3
	line to provide secure attachments for safety harness:-	
b)	comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16	MoMu0,1,2,3
,	in), high 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	MoMu0,1,2,3
	without any sleeving;	
d)	20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is	MoMu0,1,2,3
,	recommended;	14 0 4 2 2
<i>e)</i>	at least two of which should be fitted on the underside of a multihull in	Mu0,1,2,3
4.04.2	case of inversion.  Clipping Points:-	
4.04.2	shall be provided-	
a)	attached to through-bolted or welded deck plates or other suitable and	MoMu0,1,2,3
~ <i>,</i>	strong anchorage points adjacent to stations such as the helm, sheet	
	winches and masts, where crew members work for long periods:-	
b)	which, together with jackstays and static safety lines shall enable a crew	MoMu0,1,2,3
=	member-	
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	MoMu0,1,2,3

	areas on deck and the cockpit(s) with the minimum of clipping and	
۵)	unclipping operations.	MaNuo 1 2 2
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
d)	In a trimaran with a rudder on the outrigger, adequate clipping points	Mu0,1,2,3
u)	shall be provided that are not part of the deck gear or the steering	1100,1,2,5
	mechanism, in order that the steering mechanism can be reached by a	
	crew member whilst clipped on.	
e)	Warning - U-bolts as clipping points - see OSR 5.02.1(a)	MoMu0,1,2,3
4.05	Fire Extinguishers	, , ,
	Shall be provided as follows:	
4.05.1	Fire extinguishers, at least two, readily accessible in suitable and different	**
	parts of the yacht	
4.05.2	Fire Extinguishers, at least two, of minimum 2kgs each of dry powder or	MoMu0,1,2,3
	equivalent	
4.05.3	Fire extinguishers, at least three of minimum 2 kgs each of dry powder or	MoMu0
	equivalent including at least one extinguisher or system suitable for	
4.05.4	dealing with fire in a machinery space	ale ale
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 specification of anchor, chain and rope shall be in accordance with	MoMu0
	relevant class rules or the rules of a recognised Classification Society (eg Lloyd's, DNV, etc.)	
4.07	Flashlight(s) and Searchlight(s)	
4.07.1	The following shall be provided:-	
a)	A watertight, high-powered searchlight, suitable for searching for a	**
u)	person overboard at night and for collision avoidance with spare batteries	
	and bulbs, and	
b)	a watertight flashlight with spare batteries and bulb	**
d)	a watertight high-intensity heavy duty handlamp powered by the ships'	MoMu0
	batteries, instantly available for use on deck and in the cockpit, with	
	spare bulbs	
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:-	44.44.04
<i>a)</i>	International Medical Guide for Ships, World Health Organisation, Geneva	MoMu0,1 **
<i>c)</i>	Le Guide de la medecine a distance, by Docteur J Y Chauve, published by	<i>~~</i>
<b>a</b> )	Distance Assistance BP33 F-La Baule, cedex, France. Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr	**
e)	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	**
110015	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	A passive radar reflector shall be carried with:	**
	Octahederal circular sector plates of minimum diameter 300 mm (12") or	
	Octahederal rectangular plates of minimum diagonal dimension 405 mm	
	(16") or	
	a non-Octahederal reflector with a documented Root Mean Square	
	minimum Radar Cross Section (RCS) area of 2 m2 from 0-360 degrees in	
4 10 2	azimuth and +/- 20 degrees in heel.	Managa
4.10.2	A Radar Target Enhancer (RTE) shall be carried which complies with ISO	MoMu0
4 1 1	8729-2:2009 or equivalent.	
4.11	Navigation Equipment	

4.11.1	Charts	
	Navigational charts (not solely electronic), light list and chart plotting	**
	equipment shall be provided	
4.11.2	Reserve Navigation System	
	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	
	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	**
	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	
4.13.2	Two independent echo sounders shall be provided	MoMu0
4.14	Speedometer or Distance Measuring Instrument (log)	M-M-0 1 2 2
4.15	A speedometer or distance measuring instrument (log) shall be provided <b>Emergency Steering</b>	MoMu0,1,2,3
4.15.1	Emergency steering  Emergency steering shall be provided as follows:	
a)	except when the principal method of steering is by means of an	MoMu0,1,2,3
/	unbreakable 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	MoMu0,1,2,3
	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	
4.16	this method be demonstrated. <b>Tools and Spare Parts</b>	
4.10	Tools and spare parts, including effective means to quickly disconnect or	**
	sever the standing rigging from the hull shall be provided.	
4.17	Yacht's name	
	Yacht's name shall be on miscellaneous buoyant equipment, such as	**
	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.	**
4.18	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  Marine grade retro-reflective material	
	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  Marine grade retro-reflective material  Marine grade retro-reflective material shall be fitted to lifebuoys,	**
4.18	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.	
4.18 4.19	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBs	**
<b>4.18 4.19</b> a)	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.	
4.18 4.19	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBS  At least two 406 MHz EPIRBs shall be provided	** MoMu0
<b>4.18 4.19</b> a)	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBS  At least two 406 MHz EPIRBs shall be provided  It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.  Every EPIRB shall be registered with the appropriate authority associated	** MoMu0
<b>4.18 4.19</b> a) b)	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBs  At least two 406 MHz EPIRBs shall be provided  It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.  Every EPIRB shall be registered with the appropriate authority associated with the country code in the hexadecimal identification (15 Hex ID) of the	** MoMu0 MoMu0,1,2
<b>4.18 4.19</b> a) b)	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBs  At least two 406 MHz EPIRBs shall be provided  It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.  Every EPIRB 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	** MoMu0 MoMu0,1,2
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<b>4.18 4.19</b> a) b) c)	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBS  At least two 406 MHz EPIRBs shall be provided  It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.  Every EPIRB 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 MoMu0,1,2 MoMu0,1,2
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<b>4.18 4.19</b> a) b) c)	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBs  At least two 406 MHz EPIRBs shall be provided  It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.  Every EPIRB 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  Every ship's 406 MHz EPIRB shall be water and manually activated. 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	**  MoMu0  MoMu0,1,2  MoMu0,1,2
<b>4.18 4.19</b> a) b) c)	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBS  At least two 406 MHz EPIRBs shall be provided  It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.  Every EPIRB 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  Every ship's 406 MHz EPIRB shall be water and manually activated.  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	**  MoMu0  MoMu0,1,2  MoMu0,1,2  MoMu0,1,2  MoMu0,1,2
<b>4.18 4.19</b> a) b) c) d) e)	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBs  At least two 406 MHz EPIRBs shall be provided  It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.  Every EPIRB 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  Every ship's 406 MHz EPIRB shall be water and manually activated. 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  MoMu0,1,2  MoMu0,1,2  MoMu0,1,2  MoMu0,1,2
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4.18 4.19 a) b) c) d) e) f) 4.20 4.20.1	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBS  At least two 406 MHz EPIRBs shall be provided  It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.  Every EPIRB 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  Every ship's 406 MHz EPIRB shall be water and manually activated. 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.  See OSR 3.29.1(e) for on-board D/F and OSR 5.07.1(b) for personal EPIRBs (PLBs)	**  MoMu0  MoMu0,1,2  MoMu0,1,2  MoMu0,1,2  MoMu0,1,2  MoMu0,1,2
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4.18 4.19 a) b) c) d) e) f) 4.20 4.20.1 c)	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.  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.  EPIRBS  At least two 406 MHz EPIRBs shall be provided  It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.  Every EPIRB 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  Every ship's 406 MHz EPIRB shall be water and manually activated. 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.  See OSR 3.29.1(e) for on-board D/F and OSR 5.07.1(b) for personal EPIRBs (PLBs)  Liferafts  Liferaft Construction and Packed Equipment  A sufficient number of liferafts shall be provided so that in the event of one liferaft being lost or rendered unserviceable, adequate capacity remains for all persons on board	**  MoMu0  MoMu0,1,2  MoMu0,1,2  MoMu0,1,2  MoMu0,1,2  MoMu0  MoMu0  MoMu0  MoMu0  MoMu0  MoMu0  MoMu0
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4.20	2 Minimum Liferaft Equipment	
a)	A SOLAS liferaft shall contain as a minimum a SOLAS A pack;	MuMo0,1,2
4.20		MoMu0,1,2
a)	Each liferaft shall be packed either in:-	MoMu0,1,2
i	a rigid container securely stowed on the working deck, in the cockpit or in	MoMu0,1,2
ľ	an open space; or:-	11011407272
ii	a rigid container or valise securely stowed in a dedicated weather tight	MoMu0,1,2
	locker containing liferaft and abandon ship equipment only which is	
	readily accessible and opens onto the cockpit or working deck, or	
	transom	
c)	Liferaft stowage on a multihull and a monohull with moveable ballast shall	MoMu0,1,2
	be such that each liferaft may be readily removed and launched whether	
	or not the yacht is inverted.	
d)	The end of each liferaft painter line should be permanently made fast to a	MoMu0,1,2
	strong point on board the yacht.	
4.20		MoMu0,1,2
a)	Each raft shall be capable of being got to the lifelines or launched within	MoMu0,1,2
	15 seconds.	
<i>b)</i>	Each liferaft of more than 40kg weight should be stowed in such a way	MoMu0,1,2
	that the liferaft can be dragged or slid into the sea without significant	
	<i>lifting</i>	
_ 4.20		MoMu0,1,2
a)	Liferafts shall be annually by a service station approved by the	Extract MoMu0
	manufacturer.	
b)	Servicing certificates (original or a copy) shall be kept on board.	MoMu0,1,2
4.21		
a)	A yacht is recommended to have for each liferaft, a grab bag with the	MoMu0,1,2
	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	
<i>(</i> -)	clip.	M-M.O 1 2
<i>b)</i>	Note: it is not intended to duplicate in a grab bag items required by other	MoMu0,1,2
	OSRs to be on board the yacht - these recommendations cover only the	
4 21	stowage of those items	
4.21		$M_0M_{11}O$ 1 2
<i>g)</i>	a watertight flashlight with spare batteries and bulb dry suits or thermal protective aids or survival bags	MoMu0,1,2
h) i)	second sea anchor for the liferaft (not required if the liferaft has already a	$M_0M_{11}O$ 1 2
"	spare sea anchor in its pack) (recommended standard ISO 17339) with	MoMu0,1,2
	swivel and >30m line diameter >9.5 mm	
j)	two safety tin openers (if appropriate)	MoMu0,1,2
k)	first-aid kit including at least 2 tubes of sunscreen. All dressings should	MoMu0,1,2
Ny	be capable of being effectively used in wet conditions. The first-aid kit	1101100,1,2
	should be clearly marked and re-sealable.	
<i>l)</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
p)	water in re-sealable containers and a hand-operated desalinator	MoMu0
<i>q)</i>	hand-held satellite telephone with waterproof cover and internal batteries	МоМи0
r)	strobe light	МоМи0
ś)	medical supplies including any for pre-existing medical conditions of any	МоМи0
=	crew member	
t)	spare unbreakable spectacles for any crew members needing them	МоМиО
u)	wet notebook with captive pencil	МоМиО
v)	powerful whistle (operated by mouth)	МоМи0
w)	6 red SOLAS compliant parachute flares, 3 white parachute flares, 2	МоМи0
	orange SOLAS compliant smoke flares, cyalume-type light sticks	

x)	a watertight, high-powere bulbs	МоМиО		
<i>y)</i>	watertight hand-held EPF.	МоМи0		
z)	SART (Search and Rescue Transponder)			MoMu0
4.21.4	Swimmer of the Watch Bag			MoMu0
a)		pp a bag, stored ready for it	mmediate use within	МоМи0
,	reach of the main compar man overboard by a swim			
b)	50 metres of buoyant 8m		······································	МоМи0
c)	a pair of swim fins	,		МоМи0
<i>d</i> )	a semi-automatic life jack	ret		МоМи0
e)	suitable clothing to effect	a man overboard recovery	in cold water	МоМиО
4.22	Lifebuoys			
4.22.1	The following shall be pro for instant use:	vided within reach of the h	elmsman and ready	**
a)	a lifebuoy with a self-ignit			**
b)	In addition to a) above, o ready for instant use, equ	ne lifebuoy within reach of ipped with:	the helmsman and	MoMu0,1,2
i	a whistle, a drogue, a self	igniting light and		MoMu0,1,2
ii		shall be either permanently		MoMu0,1,2
		omatically extended (not ex		
		hall be attached to the lifel		
		e of a length and so ballas	ted that the flag will	
:::	fly at least 1.8 m (6 ft) of			MaMa
iii 4.22.2		ipped with a sachet of fluc	-	MoMu0 f MoMu0,1,2
4.22.2		ys (and/or Lifeslings) are c y on permanent (e.g. foam		i i*i0i*iu0,1,2
4.22.3	•	nd any automatic device (e		**
	extended by compressed	gas) shall be tested and se		
4.22.4	accordance with its manufacturer's instructions.  Each lifebuoy or lifesling shall be fitted with marine grade retro-reflective			**
4 22 5	material (4.18).	be selected files	h = = ==fat : ==la in	**
4.22.5	· · · · · · · · · · · · · · · · · · ·			
4.23	the yellow-red range.  Pyrotechnic and Light:	Signals		
4.23.1		pe provided conforming to	SOLAS LSA Code	**
112311		and not older than the sta		
		stamped, not older than 4		
	red parachute flares	red hand flares LSA III	orange smoke	race
	LSA III 3.1	3.2	LSA III 3.3	category
	6	4	2	MoMu0,1
	4	4	2	MoMu2,3
		4	2	Mo4
	2	4	2	Mu4
	TABLE 13			alle alle
4.24	Heaving Line	:1 145 25 (52.6	75.63.1 .1 .11	**
a)		ovided 15 m - 25 m (50 ft -	· 75 ft) length readily	**
b)	accessible to cockpit.	is recommended - see App	andiv D	**
c)	A lifesling shall be provide		CHUIX D	MoMu0,1,2,3
<b>4.25</b>	Cockpit Knife	.a		1 101 100,1,2,3
0		athed and securely restrain	ned shall be provided	**
	readily accessible from the			
4.26	Storm & Heavy Weather	•		
4.26.1	Design			
a)		nded that persons in ch		**
	_	r to decide the most eff		
	storm and heavy weat	her sails. The purpose o	f 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 vachts according to their stability and other characteristics.

### 4.26.2 **High Visibility**

- Every storm jib shall either be of highly-visible coloured material (e.g. \*\* a) 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 highlyvisible colour.
- b) it is strongly recommended that the storm trysail should either be made \*\* of or have a patch of highly visible colour.

### 4.26.3 **Materials**

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

### The following shall be provided:-4.26.4

- sheeting positions on deck for each storm and heavy-weather sail; a)
- 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 tosails made in January 2012 and after.
- a storm trysail which shall be capable of being sheeted independently of c) 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.
- 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;
- a storm jib of area not greater than 5% height of the foretriangle e) squared, with 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.
- A trysail track should allow for the trysail to be hoisted quickly when the *i)* 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.

*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. MoMu 0,1,2

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Extract MoMu 0,1,2

MoMu0,1,2

MoMu0,1,2

*MoMu0,1,2* 

MoMu0,1,2

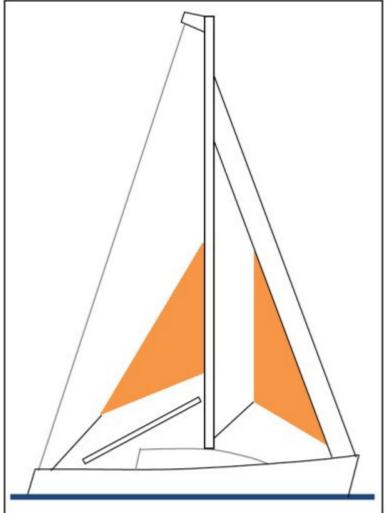


Figure 3 4.27 **Drogue, Sea Anchor** MoMu0,1 4.27.2 A drogue for deployment over the stern, or alternatively a sea anchor or MoMu0 parachute anchor for deployment at the bow, shall be provided complete with all gear needed to rig and deploy the sea anchor or drogue to withstand long periods in rough conditions (see OSR Appendix F) 4.28 **Man Overboard Alarm** MoMu0 MoMu0 4.28.1 Each vacht shall be equipped with a man overboard alarm including an emergency button immediately accessible to a helmsman which will sound an audible alarm in the accommodation and simultaneously send an appropriate signal to the ship's navigational software 4.28.2 A yacht shall be equipped with an EPFS (e.g. GPS) capable of recording a MoMu1,2 man overboard position within 10 seconds and monitoring that position. **SECTION 5 - PERSONAL EQUIPMENT** 5.01 Lifeiacket 5.01.1 Each crew member shall have a lifejacket as follows:-\*\* a) i In accordance with ISO 12402 – 3 (Level 150) or equivalent, including EN 396 or UL 1180 Lifejackets manufactured after 1 January 2012 shall be in accordance \*\* ii 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).

(a)

If of an inflatable type either

automatic, manual and oral inflation or

	(b) manual and oral inflation	
	Notes: ISO 12402 requires Level 150 lifejackets to be fitted with a	
	mandatory whistle and retro-reflective material. Also, when fitted with a	
	safety harness, ISO 12402 requires that this shall be the full safety	
	harness in accordance with ISO 12401. Any equivalent lifejacket shall	
	have equal requirements.	
	Persons of larger than average build are generally more buoyant than	
	those of average build and so do not require a lifejacket with greater	
	levels of flotation. Wearing a Level 275 lifejacket may hamper entry into	
	liferafts.	
b)	fitted with either a crotch strap(s) / thigh straps or a full safety harness in	**
	accordance with ISO 12401,	
	Note: The function of lifejacket crotch/thigh straps is to hold the	
	buoyancy element down. A crew member before a race should adjust a	
	lifejacket to fit then retain that lifejacket for the duration of the race.	
	Correct adjustment is 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,	**
h)	fitted with a splashguard / sprayhood in accordance with ISO 12402 – 8,	MoMu0
i)	Fitted with a PLB unit (as with other types of EPIRB, should be properly	MoMu0
	registered with the appropriate authority)	
5.01.2	For every gas inflatable lifejacket a spare cylinder and if appropriate a	MoMu0
	spare activation head shall be carried.	
5.01.3	Each yacht shall carry a spare lifejacket or lifejacket(s) as required in OSR	MoMu0
	5.01.1 sufficient for at least 10% of the total number of persons on board	
	(minimum one spare lifejacket). At least one of the required spare	
	(minimum one spare inejacket). At least one of the required spare	
	lifejacket(s) shall be a semi - automatic for use in man overboard	
5.01.4	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.	**
5.01.4	lifejacket(s) shall be a semi - automatic for use in man overboard	**
5.01.4 <b>5.02</b>	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once	
	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.	** <b>MoMu0,1,2,3</b> MoMu0,1,2,3
5.02	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)	MoMu0,1,2,3
5.02	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  Each crew member shall have a harness and safety line that complies	MoMu0,1,2,3
5.02	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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	MoMu0,1,2,3
5.02	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  Each crew member shall have a harness and safety line that complies with ISO 12401 or equivalent with a safety line not more than 2m in length.	MoMu0,1,2,3
5.02	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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	MoMu0,1,2,3
5.02	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually. <b>Safety Harness and Safety Lines (Tethers)</b> 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
5.02	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  Harnesses and safety lines manufactured prior to Jan 2001 are not	MoMu0,1,2,3
<b>5.02</b> 5.02.1	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually. <b>Safety Harness and Safety Lines (Tethers)</b> 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.  Harnesses and safety lines manufactured prior to Jan 2001 are not permitted.	<b>MoMu0,1,2,3</b> MoMu0,1,2,3
<b>5.02</b> 5.02.1	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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	<b>MoMu0,1,2,3</b> MoMu0,1,2,3
<b>5.02</b> 5.02.1	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 the hook is rotated under load at right-angles to the axis	<b>MoMu0,1,2,3</b> MoMu0,1,2,3
<b>5.02</b> 5.02.1	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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	<b>MoMu0,1,2,3</b> MoMu0,1,2,3
<b>5.02</b> 5.02.1	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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.	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
<b>5.02</b> 5.02.1	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
<b>5.02</b> 5.02.1 a)	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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 either:-	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
<b>5.02</b> 5.02.1 <b>a)</b> 5.02.2 a)	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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 either:- a safety line not more than 1m long, or	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
<b>5.02</b> 5.02.1 <b>a)</b> 5.02.2  a) b)	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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 either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
<b>5.02</b> 5.02.1 <b>a)</b> 5.02.2  a) b)	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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 either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line  Each yacht shall carry spare harness and safety line units as required in	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
<b>5.02</b> 5.02.1 <b>a)</b> 5.02.2  a) b)	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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 either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
<b>5.02</b> 5.02.1 <b>a)</b> 5.02.2  a) b) c)	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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 either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line  Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of persons on board (minimum one unit).	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoO
<b>5.02</b> 5.02.1 <b>a)</b> 5.02.2  a) b) c)	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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 either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of persons on board (minimum one unit). A safety line purchased in January 2001 or later shall have a coloured flag	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoO
<b>5.02</b> 5.02.1 <b>a)</b> 5.02.2  a) b) c)	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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 either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of persons on board (minimum one unit).  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	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoO
<b>5.02</b> 5.02.1 <b>a)</b> 5.02.2  a) b) c)	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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 either:-  a safety line not more than 1m long, or  a mid-point snaphook on a 2m safety line  Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of persons on board (minimum one unit).  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.  A crew member's lifejacket and harness shall be compatible  It is strongly recommended that:-	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoO MoMu0,1,2,3
<b>5.02</b> 5.02.1 <b>a)</b> 5.02.2  a) b) c) 5.02.3	lifejacket(s) shall be a semi - automatic for use in man overboard recovery.  The person in charge shall personally check each lifejacket at least once annually.  Safety Harness and Safety Lines (Tethers)  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.  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 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 either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of persons on board (minimum one unit).  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.  A crew member's lifejacket and harness shall be compatible	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoOMu0,1,2,3 MoMu0,1,2,3

b)	A harness should be fitted with a crotch strap or thigh straps.	MoMu0,1,2,3
c)	to draw attention to wear and damage, stitching on harness and safety lines 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);	MoMu0,1,2,3
<i>e)</i>	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.	**
5.03	Personal Location Lights	MoMu0
a) <b>5.04</b>	two packs of miniflares or two personal location lights (either SOLAS or strobe) shall be provided for each crew member: one should be attached to, or carried on, the person when on deck at night.  Foul Weather Suits	MoMu0
a)	a foul weather suit with hood shall be supplied to each crew member.	MoMu0
<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	**
5.05	Knife A knife, one shall be supplied to each crew member to be worn on the person at all times	MoMu0 MoMu0
5.06	Watertight flashlight A buoyant watertight flashlight, one shall be supplied to each crew member.	MoMu0 MoMu0
5.07	Survival Equipment	Mo0,1,2Mu0,1,2,3,4
5.07.1	One set of Survival Equipment shall be supplied to each crew member to include:-	MoMu0
a)	an immersion suit (attention is drawn to EN ISO 15027-1 constant wear suits, and EN ISO 15027-2 abandonment suits and the LSA Code Chapter II, 2,3);	MoMu0
b)	a PLB (Personal Locator Beacon) equipped with 406MHz and 121.5Mhz;	MoMu0
c)	a personal unit in addition to the PLB in OSR 4.07.1(b) if the location device carried by the yacht in accordance with OSR 3.29.1(h) requires it;	MoMu0
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	MoMu0,1,2
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
<b>5.08</b> 5.08.1	<b>Diving Equipment</b> A yacht shall carry at least two diving suits each to cover the entire body and including gloves, fins and portable air supplies.	MoMu0
SECTION 6.01	ON 6 - TRAINING At least 30% but not fewer than two members of a crew,	MoMu1,2

	The years before the start of the race in both 0.02 topics for	
	theoretical sessions, and 6.03 topics which include practical,	
	hands-on sessions.	
6.01.2	Every member of a crew including the skipper shall have undertaken	MoMu0
	training as in OSR 6.01	
6.01.4	Except as otherwise provided in the Notice of Race, an in-date certificate	MoMu0,1,2
	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.	
6.02	Training Course, for Iditale details.  Training Topics for Theoretical Sessions	
		MaMuO 1 2
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	
6.05	Medical Training	MoMu0
6.05.1	At least one member of the crew shall have a valid STCW 95 A-VI/4-2	MoMu0
010311	(Proficiency In Medical Care) certificate or equivalent	1101100
6.05.2	In addition to 6.05.1 another member of the crew	MoMu0
0.03.2	shall have a first aid certificate completed within the last five years	Mondo
	meeting any of the following requirements:	
:	A certificate listed on the ISAF website www.sailing.org/specialregs of	
i		
	MNA recognised courses	
ii	STCW 95 First Aid Training complying with A-VI/1-3 – Elementary First	
6.05.4	Aid or higher STCW level	ale ale
6.05.4	An example model first aid training course is included in Appendix N.	**
6.06	Diving Training	MoMu0
6.06.1	At least 30% of the crew shall have received appropriate diving training	MoMu0
	to enable them to carry out basic repairs underwater and to provide	
	assistance if necessary in recovery of a man overboard	

including the skipper shall have undertaken training within the five years before the start of the race in both 6.02 topics for

### **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 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.		MoMu0,1,2
	TABLE 2	The same approximation of the same and the same approximation of the same and the s	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 s		MoMu0,1,2
	maintained, modified and repaired in either:	n accordance with the requirements of	
a)	the EC Recreational Craft Directive f	or Category A (having obtained the	MoMu0,1,2
	CE mark), or		
b)		sing Offshore Yachts in which case the	MoMu0,1,2
	yacht shall have on board either a c		
	ABS, or written statements signed b	•	
	confirm that they have respectively accordance with the ABS Guide,	designed and built the yacht in	
c)	ISO 12215 Category A, with written	statements signed by the designer	MoMu0,1,2
C)	_ · · · · · · · · · · · · · · · · · · ·	have respectively designed and built	1101100,1,2
	the yacht in accordance with the ISO		
d)	except that a race organizer or class	rules may accept when that	MoMu0,1,2
	described in (a), (b), or (c) above is	not available, the signed statement	
	by a naval architect or other person		
	above that the yacht fulfills the requ		
m3		ons to the hull, deck, coachroof, keel	MoMu0,1,2
		n table 2 shall be certified by one of	
	• • • •	ate written statement or statements	
	shall be on board.		

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