ISAF OFFSHORE SPECIAL REGULATIONS

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



Extract for Race Category 4 Multihulls

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

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

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

Language & Abbreviations Used

Mo - Monohull

Mu - Multihull

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

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

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

Administration

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

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

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

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

SECTION 1 - FUNDAMENTAL AND DEFINITIONS

1.01 Purpose and Use

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

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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

Month/year of first launch
Automatic Identification Systems
Comité Européen de Normalisation
Cardio-Pulmonary Resuscitation
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.
Digital Selective Calling
European Norm
Electronic Position-Fixing System
Emergency Position-Indicating Radio Beacon
The transverse station at which the upper corner of the
transom meets the sheerline.
A foul weather suit is clothing designed to keep the wearer
dry and maybe either a jacket and trousers worn together, or
a single garment comprising jacket and trousers.
Global Maritime Distress & Safety System
Global Navigation Satellite System
EPIRB, with integral GPS position-fixing
International Telecommunications Union
Global Positioning System
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).
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
11150	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
150	Standardization.
Lifeline	Rope or wire line rigged as guardrail / guardline around the
LIICIIIIC	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
Danast	influence stability and/or trim and which may be moved
	transversely but not varied in weight while a boat is racing.
ORC	Offshore Racing Congress (formerly Offshore Racing Council)
OSR	Offshore Special Regulation(s)
Permanently	Means the item is effectively built-in by e.g. bolting, welding,
Installed	glassing etc. and may not be removed for or during racing.
PLB	Personal Locator Beacon
Proa	Asymmetric Catamaran
RRS	ISAF - Racing Rules of Sailing
SAR	Search and Rescue
SART	Search and Rescue Transponder
Series Date	Month & Year of first launch of the first yacht of the
Series Date	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
	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.
The words "shall	and "must" are mandatory, and "should" and "may" are **

- 1.03.2 The words "shall" and "must" are mandatory, and "should" and "may" are ** permissive.
- 1.03.3 The word "yacht" shall be taken as fully interchangeable with the word ** "boat".

SECTION 2 - APPLICATION & GENERAL REQUIREMENTS

2.01 Categories of Events

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

**

2.01.5 Category 4

	Short races, close to shore in relatively warm or protected waters	MoMu,4
	normally held in daylight.	
2.02	Inspection	
	A yacht may be inspected at any time. If she does not comply with these	**
	Special Regulations her entry may be rejected, or she will be liable to	
	disqualification or such other penalty as may be prescribed by the	
	national authority or the race organizers.	
2.03	General Requirements	
2.03.1	All equipment required by Special Regulations shall:-	
a)	function properly	**
b)	be regularly checked, cleaned and serviced	**
c)	when not in use be stowed in conditions in which deterioration is	**
c)	minimised	
d)	be readily accessible	**
e)	be of a type, size and capacity suitable and adequate for the intended use	**
e)	and size of the yacht.	
2 02 2	•	
2.03.2	Heavy items:	**
a)	ballast, ballast tanks and associated equipment shall be permanently	1. J.
	installed	**
b)	heavy movable items including e.g. batteries, stoves, gas bottles, tanks,	ጥጥ
	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	When to show navigation lights	**
a)	navigation lights (OSR 3.27) shall be shown as required by the	**
	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	**
5.02.2	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	**
5.02.5		
	enclosure which shall comply with OSR 3.02.2. Access points in the	
	watertight enclosure for control and actuation systems or any other	
2 02 4	purpose shall comply with OSR 3.02.1.	**
3.02.4	Moveable ballast systems shall be fitted with a manual control and	ጥጥ
	actuation secondary system which shall be capable of controlling the full	
	sailing load of the keel in the event of failure of the primary system. Such	
	failures would include electrical and hydraulic failure and mechanical	
	failure of the components and the structure to which it mounts. The	
	system must be capable of being operational quickly and shall be	
	operable at any angle of heel. It would be desirable if this system was	
	capable of securing the keel on the centreline.	
3.05	Stability and Flotation - Multihulls	Mu0,1,2
	Attention is drawn to ISO 12217-2.	Mu0,1,2,
3.05.1	Adequate watertight bulkheads and compartments (which may include	Mu0,1,2,3
	permanently installed flotation material) in each hull shall be provided to	

0,1,2,3,4 *0,1,2,3,4* 0,1,2,3,4

	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 accommodation be divided at intervals of not more than 4m (13ft 3") by one or more transverse watertight bulkheads	Mu0,1,2,3,4
3.05.3 3.07 3.07.1	A yacht shall be designed and built to resist capsize. Exits and Escape Hatches - Multihulls Exits	Mu0,1,2,3,4 Mu0,1,2,3,4
a)	In a multihull of 8m (26.2ft) LOA and greater, each hull which contains accommodation shall have at least two exits.	Mu0,1,2,3,4
3.07.2	Escape Hatches, Underside Clipping Points & Handholds	
a)	In a multihull of 12m (39.4ft) LOA and greater each hull which contains accommodation shall:-	Mu0,1,2,3,4
i	have an escape hatch for access to and from the hull in the event of an inversion;	Mu0,1,2,3,4
ii	when first launched on or after January 2003 have a minimum clearance diameter through each escape hatch of 450mm or when an escape hatch is not circular, sufficient clearance to allow a crew member to pass through fully clothed;	Mu0,1,2,3,4
iii	when first launched prior to January 2003, if possible have each escape hatch in compliance with the dimensions in OSR 3.07.2(a)(ii);	Mu0,1,2,3,4
iv v	when the yacht is inverted have each escape hatch above the waterline; when first launched on or after January 2001 have each escape hatch at or near the midships station;	Mu0,1,2,3,4 Mu0,1,2,3,4
vi	in a catamaran first launched on or after January 2003 have each escape hatch on the side nearest the vessel's central axis.	Mu0,1,2,3,4
b)	A trimaran of 12m (39.4ft) LOA and greater first launched on or after 1/03 shall have at least two escape hatches in compliance with the dimensions in OSR 3.07.2(a) (ii)	Mu0,1,2,3,4
c)	Each escape hatch must have been opened both from inside and outside within 6 months prior to an intended race	Mu0,1,2,3,4
d)	A multihull shall have on the underside appropriate handholds/clipping points sufficient for all crew (on a trimaran these shall be around the central hull).	Mu0,1,2,3,4
e)	A catamaran first launched on or after 1/03 with a central nacelle shall have on the underside around the central nacelle, handholds of sufficient capacity to enable all persons on board to hold on and/or clip on securely	Mu0,1,2,3,4
f)	In a catamaran with a central nacelle, it is recommended that each hull has an emergency refuge, accessible via a special hatch in the side of the hull nearest the vessel's central axis, which hatch may be opened and closed from the inside and outside	Mu0,1,2,3,4
3.07.3	A multihull of less than 12m (39.4ft) LOA shall either have escape hatches in compliance with OSR 3.07.2 (a)(b) and (c)or shall comply with OSR 3.07.3 (a) and (b):	Mu2,3,4
a)	each hull which contains accommodation shall have, for the purpose of cutting an escape hatch, appropriate tools kept ready for instant use adjacent to the intended cutting site. Each tool shall be secured to the vessel by a line and a clip, and	Mu2,3,4
b)	in each hull at a station where an emergency hatch may be cut, the cutting line shall be clearly marked both inside and outside with an outline and the words ESCAPE CUT HERE	Mu2,3,4
3.08 3.08.1	Hatches & Companionways No hatch forward of the maximum beam station, other than a hatch in the side of a coachroof, shall open in such a way that the lid or cover moves into the open position towards the interior of the hull (excepting	**
3.08.2	ports having an area of less than 0.071m2 (110 sq in)). 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:	
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	**
3.08.4	180 degree capsize (inversion) A companionway hatch shall:	
a)	be fitted with a strong securing arrangement which shall be operable	**
b)	from the exterior and interior including when the yacht is inverted have any blocking devices:	**
i)	capable of being retained in position with the hatch open or shut	**
ii	whether or not in position in the hatchway, secured to the yacht (e.g. by	**
	lanyard) for the duration of the race, to prevent their being lost overboard	
iii	permit exit in the event of inversion	**
3.08.7	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.	Mu0,1,2,3,7
	washboards) in place with a minimum sill height of 300 mm.	
b) ii	A companionway hatch shall be in compliance with ISO 11812 –	Mu4
	Watertight cockpits and quick-draining cockpits to design category B	
3.09	Cockpits - Attention is Drawn to ISO 11812	**
3.09.1	Cockpits shall be structurally strong, self-draining quickly by gravity at all angles of heel and permanently incorporated as an integral part of the	<u> </u>
	hull.	
3.09.2	Cockpits must be essentially watertight, that is, all openings to the hull	**
3.09.3	must be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See	**
	OSR 3.09.8 for cockpit drain minimum sizes	
3.09.4	A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL)	**
3.09.5	A bow, lateral, central or stern well shall be considered a cockpit for the	**
	purposes of OSR 3.09	
3.09.6	In cockpits opening aft to the sea structural openings aft shall be not less in area than 50% maximum cockpit depth x maximum cockpit width.	**
3.09.7	Cockpit Volume	
i)	earliest of age or series date before April 1992	
	the total volume of all cockpits below lowest coamings shall not exceed 9% (LWL x maximum beam x freeboard abreast the cockpit).	Extract MoMu2,3,4
ii)	earliest of age or series date April 1992 and after	
	as above for the appropriate category except that "lowest coamings" shall not include any aft of the FA station and no extension of a cockpit aft of	Extract **
	the working deck shall be included in calculation of cockpit volume	
	IMS-rated boats may instead of the terms LWL, maximum beam,	Extract **
3.09.8	freeboard abreast the cockpit, use the IMS terms L, B and FA. Cockpit Drains	
5.05.0	See OSR 3.09.1. Cockpit drain cross section area (after allowance for	
-)	screens if fitted) shall be:-	**
a)	in yachts with earliest of age or series date before 1/72 or in any yacht under 8.5m (28ft) LOA - at least that of 2 x 25mm diameter (one inch)	<u>ጥ</u> ጥ
	unobstructed openings or equivalent	
b)	in yachts with earliest of age or series date 1/72 and later - at least that	**
3.10	of 4 x 20mm diameter (3/4 inch) unobstructed openings or equivalent Sea Cocks or Valves	
	Sea cocks or valves shall be permanently installed on all through-hull	**
	openings below the waterline except integral deck scuppers, speed	

	indicators, depth finders and the like, however a means of closing such openings shall be provided.	
3.11	Sheet Winches Sheet winches shall be mounted in such a way that an operator is not required to be substantially below deck.	**
3.12	Mast Step The heel of a keel stepped mast shall be securely fastened to the mast step or adjoining structure.	**
3.13	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 from the bow and abaft the forward end of LWL, or permanently installed closed-cell foam buoyancy effectively filling the forward 30% LOA of the hull.	Mo0Mu0,1,2,3,4
3.13.2	Any required watertight bulkhead shall be strongly built to take a full head of water pressure without allowing any leakage into the adjacent compartment.	Mo0Mu0,1,2,3,4
3.14	Pulpits, Stanchions, Lifelines	
3.14.1	When due to the particular design of a multihull it is impractical to precisely follow Special Regulations regarding pulpits, stanchions, lifelines, the regulations for monohulls shall be followed as closely as possible with the aim of minimising the risk of people falling overboard.	Mu0,1,2,3,4,
3.14.2	Lifeline deflection shall not exceed the following:	**
a)	When a deflecting force of 4 kg/f (39.2 N) is applied to a lifeline midway between supports of an upper or single lifeline, the lifeline shall not deflect more than 50mm. This measurement shall be taken at the widest span between supports that are aft of the mast.	**
b)	When a deflecting force of 4 kg/f (39.2 N) is applied midway between supports of an intermediate lifeline of all spans that are aft of the mast, deflection shall not exceed 120mm from a straight line between the stanchions.	**
3.14.3	The following shall be provided:	**
c)	lifelines (guardlines) supported on stanchions, which, with pulpits, shall form an effectively continuous barrier around a working deck for man- overboard prevention. Lifelines shall be permanently supported at intervals of not more than 2.20m (86.6") and shall not pass outboard of supporting stanchions	**
d)	upper rails of pulpits at no less height above the working deck than the upper lifelines as in Table 7.	**
e)	Openable upper rails in bow pulpits shall be secured shut whilst racing	**
f)	Pulpits and stanchions shall be permanently installed. When there are sockets or studs, these shall be through-bolted, bonded or welded. The pulpit(s) and/or stanchions fitted to these shall be mechanically retained without the help of the life-lines. Without sockets or studs, pulpits and/or stanchions shall be through-bolted, bonded or welded.	**
g)	The bases of pulpits and stanchions shall not be further inboard from the edge of the appropriate working deck than 5% of maximum beam or 150 mm (6 in), whichever is greater.	**
h)	Stanchion or pulpit or pushpit bases shall not be situated outboard of a working deck. For the purpose of this rule the base shall be taken to include a sleeve or socket into which the tube is fitted but shall exclude a baseplate which carries fixings into the deck or hull.	**
i)	Provided the complete lifeline enclosure is supported by stanchions and pulpit bases effectively within the working deck, lifeline terminals and support struts may be fixed to a hull aft of the working deck	**
j)	Lifelines need not be fixed to a bow pulpit if they terminate at, or pass through, adequately braced stanchions set inside and overlapping the bow pulpit, provided that the gap between the upper lifeline and the bow pulpit does not exceed 150 mm (6 in).	**

k)	Lifelines shall be continuous and fixed only at (or near) the bow and stern. However a bona fide gate shall be permitted in the lifelines on each side of a yacht. Except at its end fittings, the movement of a lifeline in a fore-and-aft direction shall not be constrained. Temporary sleeving in 3.14.6 (c) shall not modify tension in the lifeline.	**
I)	Stanchions shall be straight and vertical except that:-	**
í	within the first 50 mm (2 in) from the deck, stanchions shall not be displaced horizontally from the point at which they emerge from the deck or stanchion base by more than 10 mm ($3/8$ in),and	**
ii	stanchions may be angled to not more than 10 degrees from vertical at any point above 50 mm (2 in) from the deck.	**
<i>m)</i>	It is strongly recommended that designs also comply to ISO 15085	**
3.14.4	Special Requirements for Pulpits, Stanchions, Lifelines on	Mu0,1,2,3,4
	Multihulls	
a)	The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull	Mu0,1,2,3,4
b)	on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward crossbeam at or outboard of the crossbeam mid-point.	Mu0,1,2,3,4
c)	on a trimaran - at a main or emergency steering position on an outrigger 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).	Mu0,1,2,3,4
d)	on a catamaran - lifelines from bow to stern on each hull and transverse 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	Mu0,1,2,3,4

transverse lifelines and the net.3.14.5 Lifeline Height, Vertical Openings, Number of Lifelines TABLE 7

rope (minimum diameter 6mm) shall be rove zig-zag between the

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

3.14.6 Lifeline Minimum Diameters, Required Materials, Specifications

a) Lifelines shall be of :

- stranded stainless steel wire or

- High Modulus Polyethylene (HMPE) (Dyneema®/Spectra® or equivalent) rope (Braid on braid is recommended)

** **

Mo4,Mu**

b)	The minimum diamet	er is specified in t	able 8 below.		**	
c)	Stainless steel lifeline	s shall be uncoate	ed and used without close-fit	ing	**	
	sleeving, however, te	mporary sleeving	may be fitted provided it is			
	regularly removed for	inspection.				
<i>d</i>)	When stainless wire is used, Grade 316 is recommended.			**		
e)			s used, it shall be protected fi	mo	Mo4,Mu**	
۷)			e with the manufacturer's	UIII		
	-		te with the manufacturer s			
	recommended proced			با م ما	**	
f)		at anyard of synthetic tope may be used to secure mennes provided			Υ Υ	
	•		mm (4 in). This lanyard shall	be		
	replaced annually at a					
g)	All wire, fittings, anch	orage points, fixt	ures and lanyards shall comp	rise a	**	
	lifeline enclosure syst	em which has at	all points at least the breakin	g		
	strength of the requir			-		
	TABLE 8 - Minimum D				**	
	LOA	wire	HMPE rope (Single braid)	HMPF	Core (Braid on braid)	1
	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	rampolines				
3.15.1	The word "net" is inte	erchangeable with	the word "trampoline"		Mu0,1,2,3,4	
	A net shall be:-	-			Mu0.1.2.3.4	
a)	essentially horizontal				Mu0,1,2,3,4	
b)	-	oven webbing, w	ater permeable fabric, or me	sh	Mu0,1,2,3,4	
5)			(2 inches) in any dimension.	511	14071727071	
			avoid chafe. The junction be	woon		
	•	-	-	ween		
	a net and a yacht sha	•		a t	M-0 1 2 2 4	
c)			sverse and longitudinal supp	ort	Mu0,1,2,3,4	
	lines and shall be fine					
d)	-				Mu0,1,2,3,4	
	conditions at sea or in	n case of capsize	when the yacht is inverted.			
e)	It is recommended th	hat lines used to t	ie the nets should be individu	ially	Mu0,1,2,3,4	
	tied and not continue	ously connected to	o more than four attachment	points		
	per connecting line	,				
3.15.2	Trimarans with Do	uble Crossbeam	IS			
a)			all have nets on each side			
u)	covering:-					
b)	5	t by the crosshee	ms, central hull and outrigge	~	Mu0,1,2,3,4	
b)			the central pulpit, the mid-pc			
c)	5		• • • •		Mu0,1,2,3,4	
		am, and the inter	section of the crossbeam and	i the		
	central hull					
d)	-		part of the cockpit or steering	J	Mu0,1,2,3,4	
			e mid-point of each after			
	crossbeam, and the in	ntersection of the	crossbeam and the central h	ull;		
	except that:-					
e)	the requirement in O	SR 3.15.2(d) shall	not apply when cockpit coar	ninas	Mu0,1,2,3,4	
,	-		ply with the minimum height	5		
	requirements in Table		,			
3.15.3	Trimarans with Sin					
a)		-	all have nets between the cer	otral	Mu0,1,2,3,4	
a)			all have hets between the ter	itiai	1100,1,2,3,4	
۲	hull and each outrigg		o from the intersection of the			
b)			s from the intersection of the		Mu0,1,2,3,4	
			ely to the aft end of the pulp			
		-	point of the cockpit or steering	g		
	position on the centra	al hull (whichever	is furthest aft)			
3.16	Catamarans					
	On a catamaran the t	otal net surface s	hall be limited:			
a)	laterally by the hulls;	and			Mu0,1,2,3,4	

b) 3.18	aftermost point of the bo	rse stations through the forestay base, and the oom lying fore and aft. However, a catamaran on-immersed) may satisfy the regulations for a	Mu0,1,2,3,4
3.18.2 3.19	A toilet, permanently inst Bunks	alled or fitted bucket	MoMu3,4
3.19.2 3.22	Bunks, permanently insta Hand Holds	alled	**
5.22	Adequate hand holds sha	all be fitted below deck so that crew members	**
		it sea. apable of withstanding without rupture a side on is drawn to ISO 15085.	
3.23	Bilge Pumps and Buck		
3.23.1		harge into a cockpit unless that cockpit opens aft	**
3.23.2		connected to cockpit drains. (OSR 3.09)	**
3.23.3	• • •	oxes shall be readily accessible for maintenance	**
3.23.4	Unless permanently insta with a lanyard or catch o	lled, each bilge pump handle shall be provided r similar device to prevent accidental loss	**
3.23.5	The following shall be pro-		
c)	(except those filled with		Mu0,1,2,3,4
f)	2.4 US gallons) capacity.	struction each with at least 9 litres (2 UK gallons, Each bucket to have a lanyard.	**
3.24	Compass		
3.24.1	The following shall be pro-		**
a)		ass, independent of any power supply,	**
3.25	Halyards.	d correctly adjusted with deviation card, and	
5.25	-	han two halyards, each capable of hoisting a sail.	**
3.27	Navigation Lights (see		
3.27.1		mounted so that they will not be masked by	**
	sails or the heeling of the		
3.27.2		t be mounted below deck level and should be at	**
		ediately under the upper lifeline.	
3.27.3	Navigation light intensity TABLE 11		_
	LOA	Guide to required minimum power rating for an	
		electric bulb in a navigation light	_
	under 12 m (39.4 ft)	10 W	-
	12 m (39.4 ft) and	25 W	
2 27 5	above	n lighte shall be carried, or far lighte not	_ **
3.27.5	dependent on bulbs, app	n lights shall be carried, or for lights not	
3.28	Engines, Generators, I	• •	
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)		gine when fitted shall: be provided with a	**
		haust, coolant, and fuel supply systems and fuel	
		ered; and have adequate protection from the	
	effects of heavy weather		
3.28.2	Generator	electricity is entioned. However, where a second	**
		electricity is optional. However, when a separate all be permanently installed, securely covered,	4 1 -
	yenerator is callieu it she	מוו שב בבווומווכוונו ווזגמווכנו, צבנעופוץ נטעפופנו,	

	and shall have permanently installed exhaust, cooling and fuel supply systems and fuel tank(s), and have adequate protection from the effects of heavy weather.	
3.29	Communications Equipment, EPFS (Electronic Position-Fixing System), Radar, AIS	**
3.29.1	The following shall be provided:	**
e)	A hand-held marine VHF transceiver, watertight or with a waterproof	MoMu1,2,3,4
,	cover. When not in use to be stowed in a grab bag or emergency	
	container (see OSR 4.21) The handheld receiver should have Digital	
	Selective Calling (DSC) and be equipped with GPS.	
f)	Independent of a main radio transceiver, a radio receiver capable of receiving weather bulletins	**
3.29.2	Yachts are reminded that no reflector, active or passive, is a guarantee of detection or tracking by a vessel using radar.	**
a)	The attention of persons in charge is drawn to legislation in force or	**
	imminent affecting the territorial seas of some countries in which the	
	carriage of an AIS set is or will be mandatory for certain vessels including	
	relatively small craft.	
SECTIO	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht	
(for wat	ter & fuel see OSR 3.21 and OSR 3.28)	
4.01	Sail Letters & Numbers	
4.01.1	Yachts which are not in an ISAF International Class or Recognized Class	**
	shall comply with RRS 77 and Appendix G as closely as possible, except	
	that sail numbers allotted by a State authority are acceptable.	
4.01.2	Sail numbers and letters of the size carried on the mainsail must be	**
	displayed by alternative means when none of the numbered sails is set.	
4.02	Hull marking (colour blaze)	Mo0,1,Mu0,1,2,3,4
4.02.1	To assist in SAR location:-	
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,	
4 0 0	or yellow) of at least 1m ²	
4.03	Soft Wood Plugs	**
	Soft wood plugs, tapered and of the appropriate size, shall be attached or	ጥጥ
4.05	stowed adjacent to the appropriate fitting for every through-hull opening.	
4.05	Fire Extinguishers	
4.05.1	Shall be provided as follows: Fire extinguishers, at least two, readily accessible in suitable and different	**
4.05.1	parts of the yacht	
4.05.4	A fire blanket adjacent to every cooking device with an open flame	**
4.05 . -	Anne blanket adjacent to every cooking device with an open name Anchor(s)	
4.06.1	An anchor or anchors shall be carried according to the table below:	**
a)	1 anchor, readily accessible	MoMu4
4.07	Flashlight(s) and Searchlight(s)	
4.07.1	The following shall be provided:-	
a)	A watertight, high-powered searchlight, suitable for searching for a	**
	person overboard at night and for collision avoidance with spare batteries	
	and bulbs, and	
b)	a watertight flashlight with spare batteries and bulb	**
c)	for Mu3,4 the watertight flashlight in OSR 4.07.1 (b) shall be stowed in	Mu3,4
-	the grab bag or emergency container	
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:-	
<i>b)</i>	First Aid at Sea, by Douglas Justins and Colin Berry, published by Adlard	MoMu2,3,4
	Coles Nautical,London	
<i>c)</i>	Le Guide de la medecine a distance, by Docteur J Y Chauve, published by	**
	Distance Assistance BP33 F-La Baule, cedex, France.	
d)	'PAN-PAN medico a bordo' in Italian edited by Umberto Verna.	MoMu2,3,4

	www.panpan.it	
e)	Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr	**
	Campbell Mackenzie www.msos.org.uk	
4.08.2	A First Aid Kit shall be provided	**
4.08.3	The contents and storage of the First Aid Kit should reflect the guidelines	**
	of the Manual carried, the likely conditions and duration of the passage,	
	and the number of people aboard the yacht.	
4.09	Foghorn	**
4.10	A foghorn shall be provided Radar Reflector	ጥ ተ
4.10 4.10.1		**
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	
	azimuth and $+/-20$ degrees in heel.	
4.11	Navigation Equipment	
4.11.1	Charts	
	Navigational charts (not solely electronic), light list and chart plotting	**
	equipment shall be provided	
4.12	Safety Equipment Location Chart	
	A safety equipment location chart in durable waterproof material shall be	**
	displayed in the main accommodation where it can best be seen, clearly	
4.13	marked with the location of principal items of safety equipment. Echo Sounder or Lead Line	
4.13 4.13.1	An echo sounder or lead line shall be provided	MoMu1 2 2 4
4.15.1 4.16	Tools and Spare Parts	MoMu1,2,3,4
4.10	Tools and spare parts, including effective means to quickly disconnect or	**
	sever the standing rigging from the hull shall be provided.	
4.17	Yacht's name	
	Yacht's name shall be on miscellaneous buoyant equipment, such as	**
	lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.	
4.18	Marine grade retro-reflective material	
	Marine grade retro-reflective material shall be fitted to lifebuoys,	**
	lifeslings, liferafts and lifejackets. See OSRs 5.04, 5.08.	
4.21	Grab Bags Grab Bag or Emergency Container for Multihulls Without	
4.21.1	Gran Ban or Emernency Container for Multinuus Without	M2 4
		Mu3,4
a)	Liferafts	·
a)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not	Mu3,4 Mu3,4
a)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with	·
a)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent	·
a)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with	·
a)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m ² area of fluorescent orange colour on the	·
	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m ² area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. Note: it is not intended to duplicate in a grab bag etc. items required by	·
	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m ² area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. <i>Note: it is not intended to duplicate in a grab bag etc. items required by</i> <i>other OSRs to be on board the yacht - this regulation covers only the</i>	Mu3,4
<i>b)</i>	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m ² area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. <i>Note: it is not intended to duplicate in a grab bag etc. items required by other OSRs to be on board the yacht - this regulation covers only the stowage of those items</i>	Mu3,4 <i>Mu3,4</i>
b)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m ² area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. <i>Note: it is not intended to duplicate in a grab bag etc. items required by other OSRs to be on board the yacht - this regulation covers only the stowage of those items</i> a watertight hand-held marine VHF transceiver plus a spare set of	Mu3,4
<i>b)</i> c)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m ² area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. <i>Note: it is not intended to duplicate in a grab bag etc. items required by other OSRs to be on board the yacht - this regulation covers only the stowage of those items</i> a watertight hand-held marine VHF transceiver plus a spare set of batteries	Mu3,4 <i>Mu3,4</i> Mu3,4
<i>b)</i> c) d)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m ² area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. <i>Note: it is not intended to duplicate in a grab bag etc. items required by other OSRs to be on board the yacht - this regulation covers only the stowage of those items a watertight hand-held marine VHF transceiver plus a spare set of batteries a watertight flashlight with spare batteries and bulb</i>	Mu3,4 <i>Mu3,4</i> Mu3,4 Mu3,4
<i>b)</i> c) d) e)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m ² area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. <i>Note: it is not intended to duplicate in a grab bag etc. items required by</i> <i>other OSRs to be on board the yacht - this regulation covers only the</i> <i>stowage of those items</i> a watertight hand-held marine VHF transceiver plus a spare set of batteries a watertight flashlight with spare batteries and bulb 2 red parachute and 3 red hand flares	Mu3,4 <i>Mu3,4</i> Mu3,4 Mu3,4 Mu3,4
<i>b)</i> c) d) e) f)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m^2 area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. <i>Note: it is not intended to duplicate in a grab bag etc. items required by</i> <i>other OSRs to be on board the yacht - this regulation covers only the</i> <i>stowage of those items</i> a watertight hand-held marine VHF transceiver plus a spare set of batteries a watertight flashlight with spare batteries and bulb 2 red parachute and 3 red hand flares a watertight strobe light with spare batteries	Mu3,4 <i>Mu3,4</i> Mu3,4 Mu3,4 Mu3,4 Mu3,4
<i>b)</i> c) d) e) f) g)	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m^2 area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. <i>Note: it is not intended to duplicate in a grab bag etc. items required by</i> <i>other OSRs to be on board the yacht - this regulation covers only the</i> <i>stowage of those items</i> a watertight hand-held marine VHF transceiver plus a spare set of batteries a watertight flashlight with spare batteries and bulb 2 red parachute and 3 red hand flares a watertight strobe light with spare batteries a knife	Mu3,4 <i>Mu3,4</i> Mu3,4 Mu3,4 Mu3,4
<i>b)</i> c) d) e) f) g) 4.22	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m^2 area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. <i>Note: it is not intended to duplicate in a grab bag etc. items required by</i> <i>other OSRs to be on board the yacht - this regulation covers only the</i> <i>stowage of those items</i> a watertight hand-held marine VHF transceiver plus a spare set of batteries a watertight flashlight with spare batteries and bulb 2 red parachute and 3 red hand flares a watertight strobe light with spare batteries	Mu3,4 <i>Mu3,4</i> Mu3,4 Mu3,4 Mu3,4 Mu3,4
a) <i>b)</i> c) d) e) f) g) 4.22 4.22.1	Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m ² area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. Note: it is not intended to duplicate in a grab bag etc. items required by other OSRs to be on board the yacht - this regulation covers only the stowage of those items a watertight hand-held marine VHF transceiver plus a spare set of batteries a watertight flashlight with spare batteries and bulb 2 red parachute and 3 red hand flares a watertight strobe light with spare batteries a knife Lifebuoys	Mu3,4 <i>Mu3,4</i> Mu3,4 Mu3,4 Mu3,4 Mu3,4 Mu3,4
<i>b)</i> c) d) e) f) g) 4.22	 Liferafts A multihull without a liferaft shall have, readily accessible whether or not the yacht is inverted, either a watertight compartment or a grab bag with the following minimum contents. A grab bag shall have inherent flotation, at least 0.1 m^2 area of fluorescent orange colour on the outside, shall be marked with the name of the yacht, and shall have a lanyard and clip. Note: it is not intended to duplicate in a grab bag etc. items required by other OSRs to be on board the yacht - this regulation covers only the stowage of those items a watertight hand-held marine VHF transceiver plus a spare set of batteries a watertight flashlight with spare batteries and bulb 2 red parachute and 3 red hand flares a watertight strobe light with spare batteries a knife Lifebuoys The following shall be provided within reach of the helmsman and ready 	Mu3,4 <i>Mu3,4</i> Mu3,4 Mu3,4 Mu3,4 Mu3,4 Mu3,4

extended by compressed gas) shall be tested and serviced at intervals in accordance with its manufacturer's instructions.

- 4.22.4 Each lifebuoy or lifesling shall be fitted with marine grade retro-reflective ** material (4.18).
- *4.22.5* It is recommended that the colour of each lifebuoy be a safety colour in **** the yellow-red range.

4.23 **Pyrotechnic and Light Signals**

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

uny) of it no expiry du	te stamped , not old	ci tiluit i yeursi	
red parachute flares	red hand flares	orange smoke	race
LSA III 3.1	LSA III 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	-	-	

**

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4.24 Heaving Line

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

4.25 Cockpit Knife

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

4.26 Storm & Heavy Weather Sails

4.26.1 Design

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

4.26.2 High Visibility

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

4.26.3 Materials

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

4.26.4 The following shall be provided:-

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

 $(0.255 \text{ x luff length x (luff perpendicular + 2 x half width))* To apply to$

sails made in January 2012 and after.

d) if a storm trysail is required by OSR 4.26.4 (g) the yacht's sail number and letter(s) 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;
f) a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of

area not greater than 13.5% height of the foretriangle squared;

**

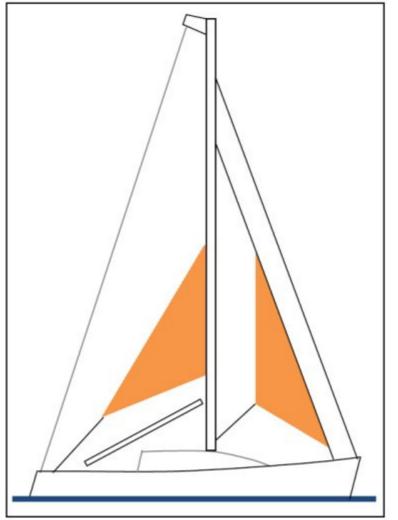


Figure 3

SECTION 5 - PERSONAL EQUIPMENT

have equal requirements.

5.01 Lifejacket

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

	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.	
c)	Correct adjustment is fundamental to the lifejacket functioning correctly. fitted with a lifejacket light in accordance with SOLAS LSA code 2.2.3	**
C)	(white, >0.75 candelas, >8 hours),	
d)	if inflatable have a compressed gas inflation system,	**
e)	if inflatable, regularly checked for gas retention,	**
f)	compatible with the wearer's safety harness,	**
g)	clearly marked with the yacht's or wearer's name,	**
j)	It is strongly recommended that a lifejacket has a splashguard /	MoMu1,2,3,4
	sprayhood See ISO 12402 – 8,	
5.01.4	The person in charge shall personally check each lifejacket at least once annually.	**
5.02.6	Warning - a safety line and safety harness are not designed to tow a	**
	person in the water and it is important that the shortest safety line length	
	possible be used with a harness to minimise or eliminate the risk of a	
	person's torso becoming immersed in water outside the boat, especially	
	when working on the foredeck. 1m safety lines or the midpoint snaphook	
	on a 2m line should be used for this purpose. The diligent use of a	
	properly adjusted safety harness and the shortest safety line practicable	
	<i>is regarded as by far the most effective way of preventing man overboard incidents.</i>	
5.04	Foul Weather Suits	**
<i>b)</i>	it is recommended that a foul weather suit should be fitted with marine- grade retro-reflective material, and should have high-visibility colours on	·/··/·
	its upper parts and sleeve cuffs.See OSR 4.18	
5.07	Survival Equipment	Mo0,1,2Mu0,1,2,3,4
5.07.2	It is strongly recommended that an immersion suit should be supplied to	Mu1,2,3,4
010712	each crew member in a multihull in conditions where there is a potential	1142/2/0/1
	for hypothermia	
SECTIO	ON 6 - TRAINING	
6.04	Routine Training On-Board	**
6.04.1	It is recommended that crews should practice safety routines at	**
	reasonable intervals including the drill for man-overboard recovery	M-M-2 4
6.05.3	<i>reasonable intervals including the drill for man-overboard recovery</i> At least one member of the crew shall be familiar with First Aid	MoMu3,4
6.05.3	<i>reasonable intervals including the drill for man-overboard recovery</i> At least one member of the crew shall be familiar with First Aid procedures, hypothermia, drowning, cardio-pulmonary resuscitation and	MoMu3,4
	<i>reasonable intervals including the drill for man-overboard recovery</i> At least one member of the crew shall be familiar with First Aid procedures, hypothermia, drowning, cardio-pulmonary resuscitation and relevant communications systems (see OSR 6.02.7 and 6.03.3).	MoMu3,4
6.05.3 <i>6.05.4</i>	<i>reasonable intervals including the drill for man-overboard recovery</i> At least one member of the crew shall be familiar with First Aid procedures, hypothermia, drowning, cardio-pulmonary resuscitation and	
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