ISAF OFFSHORE SPECIAL REGULATIONS

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



Extract for Race Category 1 Monohulls

 \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 regulations.

**

1.01.2	These Special Regulations do not replace, but rather supplement, the**requirements of governmental authority, the Racing Rules and the rules ofClass Associations and Rating Systems. The attention of persons in charge iscalled to restrictions in the Rules on the location and movement of equipment.**These Special Regulations, adopted internationally, are strongly recommended**					
1 0 2	for use by all org category deemed	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. Responsibility of Person in Charge				
1.02 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					
		where it is kept and how it is to be used. He shall also				
		son to take over the responsibilities of the Person in				
	Charge in the e	event of his incapacitation.				
1.02.2		lishment of these Special Regulations, their use by race	**			
		he inspection of a yacht under these Special Regulations in				
		reduces the complete and unlimited responsibility of the				
4 00 0	person in charge		**			
1.02.3		e -The responsibility for a yacht's decision to race or to continue racing is hers alone - RRS	ጥጥ			
	Fundamental R					
1.03		breviations, Word Usage				
1.03.1		rms 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 w				
		would run in the event that when the yacht is floating level th	e cockpit			
	DCC	is flooded or filled to overflowing.				
	DSC	Digital Selective Calling				
	EN	European Norm				
	EPFS EPIRB	Electronic Position-Fixing System Emergency Position-Indicating Radio Beacon				
	FA Station	The transverse station at which the upper corner of the transc	m			
	177 Station	meets the sheerline.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Foul-Weather	A foul weather suit is clothing designed to keep the wearer dr	y and			
	Suit	maybe either a jacket and trousers worn together, or a single				
		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	o lid or			
	Hatch	The term hatch includes the entire hatch assembly and also the cover as part of that assembly (the part itself may be described)				
		hatch).				
	INMARSAT	This is Inmarsat Global Limited, the private company that prov	vides			
		GMDSS satellite distress and safety communications, plus ge				
		communications via voice, fax and data				
	IMO	International Maritime Organisation				
	IMSO	The International Mobile Satellite Organisation, the independe				
	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	
	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 function
	Ballast	in the boat other than to increase weight and/or to influence stability and/or trim and which may be moved transversely but not varied in weight while a boat is racing.
	ORC	Offshore Racing Congress (formerly Offshore Racing Council)
	OSR	Offshore Special Regulation(s)
	Permanently	Means the item is effectively built-in by e.g. bolting, welding, glassing
	Installed	etc. and may not be removed for or during racing.
	PLB	Personal Locator Beacon
	Proa	Asymmetric Catamaran
	RRS	ISAF - Racing Rules of Sailing
	SAR	Search and Rescue
	SART	Search and Rescue Transponder
	Series Date	Month & Year of first launch of the first yacht of the production series
	SOLAS	Safety of Life at Sea Convention
	Safety Line	A tether used to connect a safety harness to a strong point
	Securely	Held strongly in place by a method (e.g. rope lashings, wing-nuts)
	Fastened	which will safely retain the fastened object in severe conditions including a 180 degree capsize and allows for the item to be removed and replaced during racing
	Static Ballast	Lead or other material including water which has no practical function in the boat other than to increase weight and/or to influence stability and/or trim and which may not be moved or varied in weight while a boat is racing.
	Static Safety Line	A safety line (usually shorter than a safety line carried with a harness) kept clipped on at a work-station
	Variable	Water carried for the sole purpose of influencing stability and/or trim
	Ballast	and which may be varied in weight and/or moved while a boat is
		racing.
1.03.2		" and "must" are mandatory, and "should" and "may" are **
1 02 2	permissive.	" chall be taken as fully interchangeable with the word "boat" **
1.03.3	,	shall be taken as fully interchangeable with the word boat.
		ION & GENERAL REQUIREMENTS
2.01		
		ort-course day races sailed in protected waters, seven
	2	stablished, to provide for differences in the minimum standards

of safety and accommodation required for such varying circumstances:

2.01.2 Category 1

Races of long distance and well offshore, where yachts must be completely MoMu,1 self-sufficient for extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies without the expectation of outside assistance.

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2.02 Inspection

A yacht may be inspected at any time. If she does not comply with these Special Regulations her entry may be rejected, or she will be liable to disqualification or such other penalty as may be prescribed by the national authority or the race organizers.

2.03 General Requirements

2.03.1	All equipment required by Special Regulations shall:-	
a)	function properly	**
b)	be regularly checked, cleaned and serviced	**
c)	when not in use be stowed in conditions in which deterioration is minimised	**
d)	be readily accessible	**
e)	be of a type, size and capacity suitable and adequate for the intended use and size of the yacht.	**
2.03.2	Heavy items:	
a)	ballast, ballast tanks and associated equipment shall be permanently installed	**
b)	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	**
2 0 2 2	permanently installed or securely fastened, as appropriate	**
2.03.3	When to show navigation lights	**
a)	navigation lights (OSR 3.27) shall be shown as required by the International 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	**
	enclosure which shall comply with OSR 3.02.2. Access points in the watertight	
	enclosure for control and actuation systems or any other purpose shall comply	
	with OSR 3.02.1.	
3.02.4	Moveable ballast systems shall be fitted with a manual control and actuation	**
	secondary system which shall be capable of controlling the full sailing load of	
	the keel in the event of failure of the primary system. Such failures would	
	include electrical and hydraulic failure and mechanical failure of the	
	components and the structure to which it mounts. The system must be capable	
	of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the	
	centreline.	
3.03 3.03.1	Hull Construction Standards (Scantlings)	MoMu0,1,2 Mo0,1,2
a)	A yacht of less than 24m in hull length (measured in accordance with ISO	Mo0,1,2
	8666) with the earliest of Age or Series Date on or after 1 January 2010 shall	
	have:	
	• been designed, built and maintained in accordance with the requirements of ISO 12215 Category A *	
	• on board a certificate of building plan review from a notified body recognized	
	by ISAF.	
	• on board a declaration signed and dated by the builder to confirm the yacht	
b)	is built in accordance with the plans reviewed by the Notified Body. A yacht of 24m in hull length and over (measured in accordance with ISO	Mo0,1,2
b)	8666) with the earliest of Age or Series Date on or after 1 January 2010 shall	1100,1,2
	have:	

• been designed, built and maintained in accordance with the requirements of

	a Classification Society recognized by ISAF	
	• on board a certificate of building plan review from a Classification Society	
	recognized by ISAF	
	• on board a declaration signed and dated by the builder to confirm the yacht is built in accordance with the plans reviewed by the Classification Society .	
3.03.2	is built in accordance with the plans reviewed by the classification society.	Mo0,1,2
a)	A yacht of less than 24m in hull length (measured in accordance with ISO	Mo0,1,2
,	8666), with the earliest of Age or Series Date on or after 1 January 2010, if	, ,
	subject to any significant repair or modification to the hull, deck, coachroof,	
	keel or appendages on or after the 1 January 2010, shall have	
	• the repair or modification designed and built in accordance with ISO 12215	
	Category A* • on board a certificate of building plan review for the repair or modification	
	from a notified body recognized by ISAF	
	• on board a declaration signed and dated by the builder to confirm that the	
	repair or modification is in accordance with the requirements of ISO 12215	
	Category A *	
b)	A yacht of 24m in hull length and over (measured in accordance with ISO	Mo0,1,2
	8666), with the earliest of Age or Series Date on or after 1 January 2010, if	
	subject to any significant repair or modification to the hull, deck, coachroof,	
	keel or appendages on or after the 1 January 2010, shall havethe repair or modification designed and built in accordance with the	
	requirements of a Classification Society recognized by ISAF	
	• on board a certificate of building plan review for the repair or modification	
	from a Classification Society recognized by ISAF	
	• on board a declaration signed and dated by the builder to confirm that the	
	repair or modification is in accordance with the plans reviewed by the Classification Society.	
3.03.3	In cases when a builder no longer exists a race organizer or class rules may	Mo0,1,2
010010	accept a signed statement by a naval architect or other person familiar with	
	the requirements of 3.031 and 3.03.2 above and in lieu of the builders	
	declaration required by 3.031 and 3.03.2 above.	
3.03.4	A monohull with the earliest of Age or Series Date before the 1 January 2010	Extract Mo0,1,2
	shall comply with 3.03.1, 3.03.2 and 3.03.3 above or with appendix M to these OSR.	
3.03.5	* or as from time to time specified by ISAF Regular inspection of the keel and keel/hull attachment structure are strongly	Mo0,1,2,3,4
	* or as from time to time specified by ISAF Regular inspection of the keel and keel/hull attachment structure are strongly recommended	
3.04	* or as from time to time specified by ISAF Regular inspection of the keel and keel/hull attachment structure are strongly recommended Stability - Monohulls	Mo0,1,2,3,4
3.04 3.04.2	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. 	Mo0,1,2,3,4 Mo0,1,2,3,4
3.04	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or 	Mo0,1,2,3,4
3.04 3.04.2	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained) 	Mo0,1,2,3,4 Mo0,1,2,3,4
3.04 3.04.2	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or 	Mo0,1,2,3,4 Mo0,1,2,3,4
3.04 3.04.2 3.04.3	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2
3.04 3.04.2	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a 	Mo0,1,2,3,4 Mo0,1,2,3,4
3.04 3.04.2 3.04.3 3.04.4	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3
3.04 3.04.2 3.04.3 3.04.4 a)	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1
3.04 3.04.2 3.04.3 3.04.4 a) b)	 * or as from time to time specified by ISAF Regular inspection of the keel and keel/hull attachment structure are strongly recommended Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or IRC SSS Base value of not less than 35; or 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1 Extract Mo1 Extract Mo0,1
3.04 3.04.2 3.04.3 3.04.4 a)	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1
3.04 3.04.2 3.04.3 3.04.4 a) b) c)	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or IRC SSS Base value of not less than 35; or a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.)	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1 Extract Mo1 Extract Mo0,1 Extract Mo0,1,2
3.04 3.04.2 3.04.3 3.04.4 a) b)	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or IRC SSS Base value of not less than 35; or a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.) Use of the ISO or any other index does not guarantee total safety or total	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1 Extract Mo1 Extract Mo0,1
3.04 3.04.2 3.04.3 3.04.4 a) b) c) <i>3.04.6</i>	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or IRC SSS Base value of not less than 35; or a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.) Use of the ISO or any other index does not guarantee total safety or total freedom of risk from capsize or sinking. 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1 Extract Mo0,1 Extract Mo0,1,2 <i>Mo0,1,2,3,4</i>
3.04 3.04.2 3.04.3 3.04.4 a) b) c)	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or IRC SSS Base value of not less than 35; or a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.) Use of the ISO or any other index does not guarantee total safety or total freedom of risk from capsize or sinking. For boats with moveable or variable ballast the method in OSR 3.04.4 shall 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1 Extract Mo1 Extract Mo0,1 Extract Mo0,1,2
3.04 3.04.2 3.04.3 3.04.4 a) b) c) <i>3.04.6</i>	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or IRC SSS Base value of not less than 35; or a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.) Use of the ISO or any other index does not guarantee total safety or total freedom of risk from capsize or sinking. 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1 Extract Mo0,1 Extract Mo0,1,2 <i>Mo0,1,2,3,4</i> Mo0,1,2,3,4
3.04 3.04.2 3.04.3 3.04.4 a) b) c) <i>3.04.6</i> 3.04.7	 * or as from time to time specified by ISAF Regular inspection of the keel and keel/hull attachment structure are strongly recommended Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or IRC SSS Base value of not less than 35; or a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.) Use of the ISO or any other index does not guarantee total safety or total freedom of risk from capsize or sinking. For boats with moveable or variable ballast the method in OSR 3.04.4 shall apply plus the relevant additional requirement of OSR Appendix K. Tanks for variable ballast shall be permanently installed and shall be provided with a system of isolating valves and pump(s) capable of manual operation at 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1 Extract Mo0,1 Extract Mo0,1,2 <i>Mo0,1,2,3,4</i>
3.04 3.04.2 3.04.3 3.04.4 a) b) c) <i>3.04.6</i> 3.04.7	 * or as from time to time specified by ISAF <i>Regular inspection of the keel and keel/hull attachment structure are strongly recommended</i> Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or IRC SSS Base value of not less than 35; or a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.) Use of the ISO or any other index does not guarantee total safety or total freedom of risk from capsize or sinking. For boats with moveable or variable ballast the method in OSR 3.04.4 shall apply plus the relevant additional requirement of OSR Appendix K. Tanks for variable ballast shall be permanently installed and shall be provided 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1 Extract Mo0,1 Extract Mo0,1,2 <i>Mo0,1,2,3,4</i> Mo0,1,2,3,4
3.04 3.04.2 3.04.3 3.04.4 a) b) c) <i>3.04.6</i> 3.04.7	 * or as from time to time specified by ISAF Regular inspection of the keel and keel/hull attachment structure are strongly recommended Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 115; or IRC SSS Base value of not less than 35; or a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.) Use of the ISO or any other index does not guarantee total safety or total freedom of risk from capsize or sinking. For boats with moveable or variable ballast the method in OSR 3.04.4 shall apply plus the relevant additional requirement of OSR Appendix K. Tanks for variable ballast shall be permanently installed and shall be provided with a system of isolating valves and pump(s) capable of manual operation at 	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo0,1,2 Mo0,1,2,3 Extract Mo1 Extract Mo0,1 Extract Mo0,1,2 <i>Mo0,1,2,3,4</i> Mo0,1,2,3,4

boat.

3.04.9 A boat fitted with moveable and/or variable ballast shall have a maximum static heel angle in the condition of Light Craft Condition (see ISO 12217-2) with moveable ballast moved fully to one side and variable ballast in the condition that produces maximum angle of heel of not greater than 35 dearees.

3.06 **Exits - Monohulls**

- 3.06.1 Yachts of LOA of 8.5 m (28 ft) and over with age or series date after January 1995 and after shall have at least two exits. At least one exit shall be located forward of the foremost mast except where structural features prevent its installation.
- 3.06.2 Yachts first launched on or after January 2014 have a hatch with the following minimum clear openings in compliance with ISO 9094:
 - Circular shape: diameter 450mm;
 - Any other shape: minimum dimension of 380mm and minimum area of
 - 0.18m2. The dimension must be large enough to allow for a 380mm diameter circle to be inscribed.

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

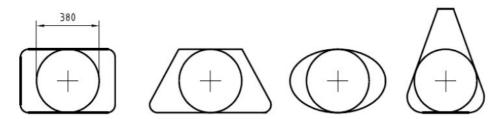


Figure 1 - Measurements of Minimum Clear Opening

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

3.08 **Hatches & Companionways**

- No hatch forward of the maximum beam station, other than a hatch in the side ** 3.08.1 of a coachroof, shall open in such a way that the lid or cover moves into the open position towards the interior of the hull (excepting ports having an area of less than 0.071m2 (110 sq in)).
- ** A hatch fitted forward of the maximum beam station, located on the side of 3.08.2 the coachroof, opening into the interior of the boat ,and of area greater than 0.071m2 shall comply with ISO12216 design category A and be clearly labelled and used in accordance with the following instruction: "NOT TO BE OPENED AT SEA" Attention is drawn to SR 3.02.1
- 3.08.3 A hatch shall be:
- a) so arranged as to be above the water when the hull is heeled 90 degrees. Hatches over lockers that open to the interior of the vessel shall be included in this requirement. A yacht may have a maximum of four (two on each side of centerline) hatches that do not conform to this requirement, provided that the opening of each is less than 0.071 sq m (110 sq in). Effective for boats of a series begun after January 1, 2009, a written statement signed by the designer or other person who performed the downflooding analysis shall be carried on board. For purposes of this rule the vessel's displacement condition for the analysis shall be the Light Craft Condition LCC (in conformity with 6.3 of the EN ISO 8666 standard and 3.5.1 of the EN ISO12217-2 standard).
- permanently attached b)
- capable of being firmly shut immediately and remaining firmly shut in a 180 ** c) degree capsize (inversion)
- 3.08.4 A companionway hatch shall:
- be fitted with a strong securing arrangement which shall be operable from the ** a) exterior and interior including when the yacht is inverted **
- have any blocking devices: b)
- capable of being retained in position with the hatch open or shut i
- whether or not in position in the hatchway, secured to the yacht (e.g. by ii

Mo0,1,2,3,4

Mo0,1,2,3,4

Mo0,1,2,3,4

Mo0,1,2,3,4

Mo0,1,2,3,4

**

**

**

	lanyard) for the duration of the race, to prevent their being lost overboard	
iii	permit exit in the event of inversion	**
3.08.5	If the companionway extends below the local sheerline and the boat has a	Mo0,1,2,3,4
-)	cockpit opening aft to the sea the boat shall comply with one of the following:	Ma0 1 2 2 4
a)	the companionway sill shall not extend below the local sheerline. Or	Mo0,1,2,3,4
b)	be in full compliance with all aspects of ISO 11812 to design category A	Mo0,1,2,3,4
3.08.6	For boats with a cockpit closed aft to the sea where the companionway hatch	Mo0,1,2,3,4
	extends below the local sheerline, the companionway shall be capable of being blocked off up to the level of the local sheerline, provided that the	
	companionway hatch shall continue to give access to the interior with the	
	blocking devices (e.g. washboards) in place	
3.09	Cockpits - Attention is Drawn to ISO 11812	
3.09.1	Cockpits shall be structurally strong, self-draining quickly by gravity at all	**
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	**
5.05.2	be capable of being strongly and rigidly secured	
3.09.3	A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR	**
5.05.5	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	**
510511	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	**
510515	purposes of OSR 3.09	
3.09.6	In cockpits opening aft to the sea structural openings aft shall be not less in	**
	area than 50% maximum cockpit depth x maximum cockpit width.	
3.09.7	Cockpit Volume	
i)	earliest of age or series date before April 1992	
,	the total volume of all cockpits below lowest coamings shall not exceed 6%	Extract MoMu0,1
	(LWL x maximum beam x freeboard abreast the cockpit).	,
ii)	earliest of age or series date April 1992 and after	
-	as above for the appropriate category except that "lowest coamings" shall not	Extract **
	include any aft of the FA station and no extension of a cockpit aft of the	
	working deck shall be included in calculation of cockpit volume	
	IMS-rated boats may instead of the terms LWL, maximum beam, freeboard	Extract **
	abreast the cockpit, use the IMS terms L, B and FA.	
3.09.8	Cockpit Drains	
	See OSR 3.09.1. Cockpit drain cross section area (after allowance for screens	
	if fitted) shall be:-	
a)	in yachts with earliest of age or series date before 1/72 or in any yacht under	**
	8.5m (28ft) LOA - at least that of 2 x 25mm diameter (one inch) unobstructed	
b)	openings or equivalent	**
b)	in yachts with earliest of age or series date $1/72$ and later - at least that of 4 x	יזי יו [.]
2 10	20mm diameter (3/4 inch) unobstructed openings or equivalent Sea Cocks or Valves	
3.10	Sea cocks or valves Sea cocks or valves shall be permanently installed on all through-hull openings	**
	below the waterline except integral deck scuppers, speed indicators, depth	
	finders and the like, however a means of closing such openings shall be	
	provided.	
3.11	Sheet Winches	
	Sheet winches shall be mounted in such a way that an operator is not required	**
	to be substantially below deck.	
3.12	Mast Step	
	The heel of a keel stepped mast shall be securely fastened to the mast step or	**
	adjoining structure.	
3.14	Pulpits, Stanchions, Lifelines	
3.14.2	Lifeline deflection shall not exceed the following:	**
a)	When a deflecting force of 4 kg/f (39.2 N) is applied to a lifeline midway	**
-	between supports of an upper or single lifeline, the lifeline shall not deflect	
	more than 50mm. This measurement shall be taken at the widest span	
	between supports that are aft of the mast.	

- When a deflecting force of 4 kg/f (39.2 N) is applied midway between supports ** b) of an intermediate lifeline of all spans that are aft of the mast, deflection shall not exceed 120mm from a straight line between the stanchions.
- 3.14.3 The following shall be provided:
- a bow pulpit with vertical height and openings essentially conforming to Table a) 7. Bow pulpits may be open but the opening between the pulpit and any part of the boat shall never be greater than 360mm (14.2") (this requirement shall be checked by presenting a 360mm (14.2") circle inside the opening)

**

Mo0,1,2,3,4

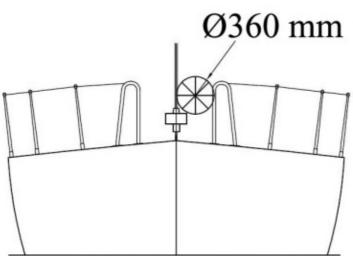


Figure 2 - Diagram Showing Pulpit Opening

- a stern pulpit, or lifelines arranged as an adequate substitute, with vertical b) Mo0,1,2,3,4 openings conforming to Table 7 c) lifelines (guardlines) supported on stanchions, which, with pulpits, shall form **
- an effectively continuous barrier around a working deck for man-overboard prevention. Lifelines shall be permanently supported at intervals of not more than 2.20m (86.6") and shall not pass outboard of supporting stanchions
- upper rails of pulpits at no less height above the working deck than the upper ** d) lifelines as in Table 7. **
- Openable upper rails in bow pulpits shall be secured shut whilst racing e)
- f) Pulpits and stanchions shall be permanently installed. When there are sockets or studs, these shall be through-bolted, bonded or welded. The pulpit(s) and/or stanchions fitted to these shall be mechanically retained without the help of the life-lines. Without sockets or studs, pulpits and/or stanchions shall be through-bolted, bonded or welded.
- The bases of pulpits and stanchions shall not be further inboard from the edge ** g) 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 **
- Lifelines need not be fixed to a bow pulpit if they terminate at, or pass j) through, adequately braced stanchions set inside and overlapping the bow pulpit, provided that the gap between the upper lifeline and the bow pulpit does not exceed 150 mm (6 in).
- k) Lifelines shall be continuous and fixed only at (or near) the bow and stern. However a bona fide gate shall be permitted in the lifelines on each side of a yacht. Except at its end fittings, the movement of a lifeline in a fore-and-aft direction shall not be constrained. Temporary sleeving in 3.14.6 (c) shall not modify tension in the lifeline.
- I) Stanchions shall be straight and vertical except that:-

**

**

**

i	within the first 50 mm (2 in) from the deck, stanchions shall not be displaced ** horizontally from the point at which they emerge from the deck or stanchion base by more than 10 mm (3/8 in),and					
ii	stanchions may be angled to not more than 10 degrees from vertical at any ** point above 50 mm (2 in) from the deck.					
m) 3.14.5	<i>It is strongly</i> Lifeline Heig	recommend	led that designs	<i>s also comply to ISO 15085</i> Number of Lifelines		**
	TABLE 7					**
	LOA	earliest of age/series		n requirements		Category
	under 8.5 m(28 ft)	before January 19	992 mm (18	eline at a height of no less tha in) above the working deck. N opening shall exceed 560 mm	lo	**
	under 8.5 January 1992 as for under 8.5 m(28 ft) in table 7 above, m(28 ft) and after except that when an intermediate lifeline is fitted no vertical opening shall exceed 380 mm (15 in).			ine is	**	
	8.5 m (28 ft) and over	before January 19	993 of no les working	feline with upper lifeline at a s than 600 mm (24 in) above deck. No vertical opening sha 560 mm (22 in)	the	**
	8.5 m (28 ft)and over	January 19 and after		(28 ft) and over in Table 7 a hat no vertical opening shall e (15 in).	-	**
	all	all	intermed	s with intermediate lifelines th liate line shall be not less than n) above the working deck.		**
3.14.6	Lifeline Min	imum Diar		red Materials, Specification	ns	
a)	Lifelines shall	be of :	steel wire or			** **
b)			s specified in ta	ble 8 below.		**
c)				l and used without close-fittin	g	**
	•		orary sleeving n	nay be fitted provided it is reg	ularly	
-0	removed for	•		in the second		**
<i>d)</i>				is recommended.		**
f)	,	does not ex		used to secure lifelines provic 4 in). This lanyard shall be rep		
g)	-		ge points, fixtu	res and lanyards shall compris	se a	**
0,				I points at least the breaking s		
	of the require					
	TABLE 8 - Mi					**
	LOA		vire	HMPE rope (Single braid)		Core (Braid on braid)
	under 8.5m 8.5m - 13m		<u>mm (1/8 in)</u> mm (5/32 in)	4mm (5/32 in) 5mm (3/16 in)		5/32 in) 3/16 in)
	over 13m (4		mm (3/16in)	5mm (3/16in)		(3/16in)
3.17	Toe Rail or				511111	Mo0,1,2,3
3.17.1		-		in) shall be permanently instal	lled	Mo0,1,2,3
				ast, except in way of fittings a		
	further inboa half-beam.	rd from the	edge of the wo	rking deck than one third of t	he local	
3.17.2	The following TABLE 10	y variations s	shall apply:-			Mo0,1,2,3 Mo0,1,2,3
	LOA Earlie	st of Age ries Date	minimum requ	uirements		
		e January	a toe rail mini	mum height of 20 mm (3/4 in) is	1
	1981	1	acceptable.		, -	
	any before January an additional lifeline of minimum height 25 mm (1					

				-
		1994	in) and maximum height 50 mm (2 in) is acceptable	
			in lieu of a toe rail (but shall not count as an	
			intermediate lifeline).	
	any	January 1994	the toe rail shall be fitted as close as practicable to	
		and after	the vertical axis of stanchion bases but not further	
			inboard than 1/3 the local half-beam.	
3.18	Toile	-		
3.18.1		et, permanently ins	talled	MoMu0,1,2
3.19	Bunk			
3.19.2		, permanently insta	alled	**
3.20		ing Facilities		
3.20.1		• • •	ently installed or securely fastened with safe	MoMu0,1,2,3
			ontrol and capable of being safely operated in a	
2 21	seawa	-	9 Drinking Water	MaM. 0 1 2 2
3.21 3.21.1		king Water Tanks	& Drinking Water	MoMu0,1,2,3 MoMu0,1,2,3
a)			nanently installed delivery pump and water tank(s):	MoMu0,1,2,3
ii	•		/ into at least two compartments	MoMu1
3.21.3		gency Drinking V	•	MoMu0,1,2,3
a)			llons, 2.4 US gallons) of drinking water for emergency	MoMu1,2,3
		. 5	a dedicated and sealed container or container(s)	
3.22		Holds		
			all be fitted below deck so that crew members may	**
		about safely at sea		
			apable of withstanding without rupture a side force of	
		V - attention is dra		
3.23	-	Pumps and Buck		**
3.23.1	the se		narge into a cockpit unless that cockpit opens aft to	1. T.
3.23.2			connected to cockpit drains. (OSR 3.09)	**
3.23.3			boxes shall be readily accessible for maintenance and	**
0.20.0		aring out debris		
3.23.4			alled, each bilge pump handle shall be provided with a	**
	lanyar	d or catch or simila	ar device to prevent accidental loss	
3.23.5		ollowing shall be pr		
a)			d manual bilge pumps, one operable from above, the	Mo0,1,2
			Each pump shall be operable with all cockpit seats,	
			vays shut and shall have permanently installed	
		• • • • •	icient capacity to accommodate simultaneously both	
f)	pump		struction each with at least 9 litres (2 UK gallons, 2.4	**
1)			ch bucket to have a lanyard.	
3.24	Comp	, , ,		
3.24.1	-	ollowing shall be pr	ovided:-	
a)			ass, independent of any power supply, permanently	**
			ljusted with deviation card, and	
b)	a mag	netic compass inde	ependent of any power supply, capable of being used	MoMu0,1,2,3
			hich may be hand-held	
3.25	Halya			
			than two halyards, each capable of hoisting a sail.	**
3.27	-	ation Lights (se	-	**
3.27.1	-	eeling of the yacht.	e mounted so that they will not be masked by sails or	
3.27.2			t be mounted below deck level and should be at no	**
5.27.2	-	-	ately under the upper lifeline.	
3.27.3		ation light intensity		
2.2/10	TABLE			
	LOA		Guide to required minimum power rating for an elect	tric bulb in a navigation
			light	-

	under 12 m (39.4 ft) 10 W 12 m (39.4 ft) and 25 W	
3.27.4	above Reserve navigation lights shall be carried having the same minimum specifications as the navigation lights above, with a separable power source, and wiring or supply system essentially separate from that used for the normal	MoMu0,1,2,3
3.27.5	navigation lights spare bulbs for navigation lights shall be carried, or for lights not dependent on bulbs, appropriate spares.	**
3.28	Engines, Generators, Fuel	
3.28.1	Propulsion Engines	**
a)	Engines and associated systems shall be installed in accordance with their manufacturers' guidelines and shall be of a type, strength, capacity, and installation suitable for the size and intended use of the yacht.	**
b)	An inboard propulsion engine when fitted shall: be provided with a permanently installed exhaust, coolant, and fuel supply systems and fuel tank(s); be securely covered; and have adequate protection from the effects of heavy weather.	**
c)	A propulsion engine required by Special Regulations shall provide a minimum speed in knots of (1.8 x square root of LWL in metres) or (square root of LWL in feet)	MoMu0,1,2,3
e) 3.28.2	An inboard propulsion engine shall be provided for yachts Generator	Mo0,1,2Mu0
3.28.3	A separate generator for electricity is optional. However, when a separate generator is carried it shall be permanently installed, securely covered, 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. Fuel Systems	**
a)	Each fuel tank provided with a shutoff valve. Except for permanently installed linings or liners, a flexible tank is not permitted as a fuel tank.	MoMu0,1,2,3
b) 3.28.4	The propulsion engine shall have a minimum amount of fuel which may be specified in the Notice of Race but if not, shall be sufficient to be able to meet charging requirements for the duration of the race and to motor at the above minimum speed for at least 8 hours Battery Systems	MoMu0,1,2,3
a)	When an electric starter is the only method for starting the engine, the yacht shall have a separate battery, the primary purpose of which is to start the engine	MoMu0,1,2,3
b)	All rechargeable batteries on board shall be of the sealed type from which liquid electrolyte cannot escape. Other types of battery installed on board at 1/12 may continue in use for the remainder of their service lives.	MoMu0,1,2,3
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 N	an emergency antenna when the regular antenna depends upon the mast.	MoMu0,1,2,3
b) i	When the marine radio transceiver is VHF:	MoMu0,1,2,2
ii	it shall have a rated output power of 25W it shall have a masthead antenna, and co-axial feeder cable with not more than 40% power loss	MoMu0,1,2,3 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) - 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).	МоМи0,1,2,3

iv	it should include channel 72 (an international ship-ship channel which, by common use, has become widely accepted as primary choice for ocean racing yachts anywhere in the world)	МоМи0,1,2,3
e)	A hand-held marine VHF transceiver, watertight or with a waterproof cover. When not in use to be stowed in a grab bag or emergency container (see OSR 4.21) The handheld receiver should have Digital Selective Calling (DSC) and be	MoMu1,2,3,4
f)	equipped with GPS. Independent of a main radio transceiver, a radio receiver capable of receiving weather bulletins	**
i)	An EPFS (Electronic Position-Fixing System) (e.g. GPS)	MoMu0,1,2,3
n)	An AIS Transponder	MoMu1,2
p)	The AIS Transponder shall share the masthead VHF antenna via a low 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 maximum 40% power loss.	MoMu0,1,2
3.29.2	Yachts are reminded that no reflector, active or passive, is a guarantee of detection or tracking by a vessel using radar.	**
<i>a)</i>	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.	**
	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht	
•	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:-	
6)	Factor wast is recommended to show at least 1 m A2 of flyeresant pink or	11-11.1
<i>b)</i>	Each yacht is recommended to show at least 1 m^2 of fluorescent pink or orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen	MoMu1
<i>4.02.3</i>	orange or yellow colour as far as possible in a single area on the coachroof	МоМи0,1
-	orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area	
<i>4.02.3</i> 4.03	orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area of highly-visible colour Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening.	
<i>4.02.3</i> 4.03 4.04	orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area of highly-visible colour Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening. Jackstays, Clipping Points and Static Safety Lines	<i>MoMu0,1</i> **
<i>4.02.3</i> 4.03	orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area of highly-visible colour Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening. Jackstays, Clipping Points and Static Safety Lines Jackstays shall be provided- attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to	ΜοΜυθ,1
<i>4.02.3</i> 4.03 4.04 4.04.1	orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area of highly-visible colour Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening. Jackstays, Clipping Points and Static Safety Lines Jackstays shall be provided- attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to provide secure attachments for safety harness:- comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in), high modulus polyethylene (such as Dyneema/Spectra) rope or webbing of	<i>MoMu0,1</i> ** MoMu0,1,2,3
<i>4.02.3</i> 4.03 4.04 4.04.1 a)	orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area of highly-visible colour Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening. Jackstays, Clipping Points and Static Safety Lines Jackstays shall be provided- attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to provide secure attachments for safety harness:- comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in),	<i>MoMu0,1</i> ** MoMu0,1,2,3 MoMu0,1,2,3
<i>4.02.3</i> 4.03 4.04 4.04.1 a) b)	orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area of highly-visible colour Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening. Jackstays, Clipping Points and Static Safety Lines Jackstays shall be provided- attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to provide secure attachments for safety harness:- comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in), high modulus polyethylene (such as Dyneema/Spectra) rope or webbing of equivalent strength; which, when made from stainless steel wire shall be uncoated and used without any sleeving;	<i>МоМи0,1</i> ** МоМи0,1,2,3 МоМи0,1,2,3 МоМи0,1,2,3
<i>4.02.3</i> 4.03 4.04 4.04.1 a) b)	orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area of highly-visible colour Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening. Jackstays, Clipping Points and Static Safety Lines Jackstays shall be provided- attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to provide secure attachments for safety harness:- comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in), high modulus polyethylene (such as Dyneema/Spectra) rope or webbing of equivalent strength; which, when made from stainless steel wire shall be uncoated and used	<i>МоМи0,1</i> ** МоМи0,1,2,3 МоМи0,1,2,3
<i>4.02.3</i> 4.03 4.04 4.04.1 a) b) c) <i>d</i>	orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area of highly-visible colour Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening. Jackstays, Clipping Points and Static Safety Lines Jackstays shall be provided- attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to provide secure attachments for safety harness:- comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in), high modulus polyethylene (such as Dyneema/Spectra) rope or webbing of equivalent strength; which, when made from stainless steel wire shall be uncoated and used without any sleeving; <i>20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended;</i> Clipping Points:- shall be provided- attached to through-bolted or welded deck plates or other suitable and strong anchorage points adjacent to stations such as the helm, sheet winches and	<i>МоМи0,1</i> ** МоМи0,1,2,3 МоМи0,1,2,3 МоМи0,1,2,3
 <i>4.02.3</i> 4.03 4.04 4.04.1 a) b) c) <i>d</i>) 4.04.2 	orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area of highly-visible colour Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening. Jackstays, Clipping Points and Static Safety Lines Jackstays shall be provided- attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to provide secure attachments for safety harness:- comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in), high modulus polyethylene (such as Dyneema/Spectra) rope or webbing of equivalent strength; which, when made from stainless steel wire shall be uncoated and used without any sleeving; <i>20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended;</i> Clipping Points:- shall be provided- attached to through-bolted or welded deck plates or other suitable and strong attached to through-bolted or welded deck plates or other suitable and strong	<i>МоМи0,1</i> ** МоМи0,1,2,3 МоМи0,1,2,3 МоМи0,1,2,3 <i>МоМи0,1,2,3</i>

	operations.	
c)	The provision of clipping points shall enable two-thirds of the crew to be	MoMu0,1,2,3
,	simultaneously clipped on without depending on jackstays	
e)	Warning - U-bolts as clipping points - see OSR 5.02.1(a)	MoMu0,1,2,3
4.05	Fire Extinguishers	
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	
4.05.2	Fire Extinguishers, at least two, of minimum 2kgs each of dry powder or	MoMu0,1,2,3
	equivalent	
4.05.4	A fire blanket adjacent to every cooking device with an open flame	**
4.06	Anchor(s)	**
4.06.1 a)	An anchor or anchors shall be carried according to the table below: The following anchors shall be provided	ጥጥ
i	For yachts of 8.5 m LOA (28 ft) and over there shall be 2 anchors together	MoMu1,2,3
	with a suitable combination of chain and rope, all ready for immediate use	
ii	For yachts under 8.5 m LOA (28 ft) there shall be 1 anchor together with a	MoMu1,2,3
	suitable combination of chain and rope, all ready for immediate use	
4.07	Flashlight(s) and Searchlight(s)	
4.07.1 a)	The following shall be provided:- A watertight, high-powered searchlight, suitable for searching for a person	**
uj	overboard at night and for collision avoidance with spare batteries and bulbs,	
	and	
b)	a watertight flashlight with spare batteries and bulb	**
4.08	First Aid Manual and First Aid Kit	** **
4.08.1	A suitable First Aid Manual shall be provided In the absence of a National Authority's requirement, the latest edition of one	**
	of the following is recommended:-	
a)	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	**
	Distance Assistance BP33 F-La Baule, cedex, France.	**
e)	Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr Campbell Mackenzie www.msos.org.uk	
4.08.2	A First Aid Kit shall be provided	**
4.08.3	The contents and storage of the First Aid Kit should reflect the guidelines of	**
	the Manual carried, the likely conditions and duration of the passage, and the	
4.09	<i>number of people aboard the yacht.</i> Foghorn	
4.09	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 azimuth and	
	+/- 20 degrees in heel.	
4.11 4.11.1	Navigation Equipment Charts	
4.11.1	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	ΜοΜυΟ,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	
4.13.1 4.14	An echo sounder or lead line shall be provided Speedometer or Distance Measuring Instrument (log)	MoMu1,2,3,4
7.17	A speedometer or distance measuring instrument (log) shall be provided	MoMu0,1,2,3
4.15	Emergency Steering	1101100,1,2,3
4.15.1	Emergency steering shall be provided as follows:	
a)	except when the principal method of steering is by means of an unbreakable	MoMu0,1,2,3
	metal tiller, an emergency tiller capable of being fitted to the rudder stock;	
b)	crews must be aware of alternative methods of steering the yacht in any sea	MoMu0,1,2,3
	condition in the event of rudder loss. At least one method must have been	
	proven to work on board the yacht. An inspector may require that this method be demonstrated.	
4.16	Tools and Spare Parts	
	Tools and spare parts, including effective means to quickly disconnect or sever	**
	the standing rigging from the hull shall be provided.	
4.17	Yacht's name	
	Yacht's name shall be on miscellaneous buoyant equipment, such as	**
	lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.	
4.18	Marine grade retro-reflective material	
	Marine grade retro-reflective material shall be fitted to lifebuoys, lifeslings,	**
4.19	liferafts and lifejackets. See OSRs 5.04, 5.08. EPIRBs	
4.19.1	A 406 MHz EPIRB shall be provided	MoMu1,2
<i>b)</i>	It is recommended that a 406 MHz EPIRB should include an internal GPS, and	MoMu0,1,2
-7	also a 121.5MHz transmitter for local homing.	,_,_,_
c)	Every EPIRB shall be registered with the appropriate authority associated with	MoMu0,1,2
	the country code in the hexadecimal identification (15 Hex ID) of the beacon.	
	A beacon can be registered online with the Cospas-Sarsat IBRD if the country	
	does not provide a registration facility and the country has allowed direct	
d)	registration in the IBRD Eveny shin's 406 MHz EPIRE shall be water and manually activated	MoMu0,1,2
d) <i>e)</i>	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	MoMu0,1,2 MoMu0,1,2
<i>C)</i>	organizers and kept available for immediate use.	1101100,1,2
f)	Consideration should be given to the provision of a locator device (e.g. an	МоМи0,1,2
·	"Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht	
	is abandoned.	
4.20	Liferafts	MoMu0,1,2
4.20.1	Liferaft Construction and Packed Equipment	M - M - 1 - 2
a)	One or more inflatable liferafts shall be provided with a total capacity to accommodate at least the total number of people on board.	MoMu1,2
b)	Each liferaft provided shall comply with either:-	
i	SOLAS LSA code 1997 Chapter IV or later version, or	MoMu1,2
II	ISO 9650-1:2005, Part I, Type I, Group A or	MoMu1,2
iii	ISAF liferaft manufactured before 01/16 until replacement is due at end of	MoMu1,2
	serviceable life, or	
iv	ORC liferaft manufactured before the end 01/03 until replacement is due at	MoMu1,2
4 2 2 2	end of serviceable life.	
4.20.2	Minimum Liferaft Equipment A SOLAS liferaft shall contain as a minimum a SOLAS A pack;	MuMo0,1,2
a) b)	An ISO 9650 liferaft shall contain as a minimum Pack 1 (greater than 24 hour	MuMo0,1,2 MuMo1
5)	pack);	Hurioi
d)	The minimum contents of the ISO liferaft equipment packs are listed below.	MoMu1,2
	Not all items are necessarily packed within the liferaft. Some items are	
	permitted to be carried within an accompanying waterproof grab bag which	
	shall be in a readily accessible location:	
	TABLE 14	
	Equipment Pack Pack In I	n liferaft or

		1	2	liferaft	in grab bag
		1	2 <	merant	in grab bag
		24h	24h		
	Portable buoyant baler easily operable by hand	1	1	X	
	Sponge	2	2	X	
	Pair of buoyant paddles with handles (not mitts) tied	1	1	X	
	into raft adjacent to an entrance	-	-		
	First-Aid Kit including at least 2 tubes of sunscreen.	1	0		Х
	All dressings must be capable of being effectively				
	used in wet conditions. The first aid kit shall be				
	clearly marked and shall be re-sealable.				
	Whistle	1	1	Х	
	Waterproof torch with 6 h duration and separate	2	1	Х	
	battery and bulb or complementary torch				
	Signalling mirror	1	1	X	
	Anti-seasickness pills, per person	6	6		X
	Seasickness bag with simple effective closure	1	1		Х
	system, per person	6	2	2	X
	Red hand flares in accordance with SOLAS LSA Code	6	3	3 min	X
	Chapter III, 3.2	2	2	1 min	Х
	Red parachute flares in accordance with SOLAS LSA	2	Z	1 min	X
	Code Chapter III, 3.1 Thermal protective aids in accordance with SOLAS	2	0		Х
	LSA Code Chapter III, 2.5	2	0		^
	Repair outfit to enable survivors to repair leaks in	1	1	X	
	any or all of the inflatable compartments. Repair	-	-		
	systems must work when wet and be capable of				
	being applied during violent motion.				
	Air pump or bellows which shall be simple, robust	1	1	X	
	and complete, with all necessary connections (loose				
	parts shall be captive to the main apparatus) ready				
	for instant use to enable air to be pumped into any				
	or all of the inflatable compartments. The air pump				
	or bellows shall be designed and built specifically for				
	easy operation by hand				
	Drinking water per person, in containers of each not	1.5	0	0.5 L	Ха
	more than 500mL	L			
	Food per person	10	0		Х
		000			
	* Duinking water in the such has (if any) may be wards	kJ		alinatar	douise
4 20 2	* Drinking water in the grab bag (if any) may be repla Liferaft Packing and Stowage	ced wi	th a de	salinator	
4.20.3	Each liferaft shall be packed either in:-				MoMu0,1,2 MoMu0,1,2
a) i	a rigid container securely stowed on the working deck,	in the (rocknit	or in an	MoMu0,1,2
1	open space; or:-		cockpic		1101100,1,2
ii	a rigid container or valise securely stowed in a dedicate	d weat	her tia	ht locker	MoMu0,1,2
	containing liferaft and abandon ship equipment only w		_		
	accessible and opens onto the cockpit or working decl				
b)	In a yacht with age or series date before June 2001, a			e packed	MoMu1,2
	in a valise not exceeding 40kg securely stowed below d	eck ad	jacent	to a	
	companionway.				
c)	Liferaft stowage on a multihull and a monohull with mo				MoMu0,1,2
	such that each liferaft may be readily removed and laur	nched v	vhethe	r or not	
	the yacht is inverted.				
d)	The end of each liferaft painter line should be permane	ntly ma	ade fas	t to a	MoMu0,1,2
	strong point on board the yacht.				MaN-047
4.20.4	Liferaft Launching Each raft shall be capable of being got to the lifelines o	r launa	hod wil	hin 15	MoMu0,1,2 MoMu0,1,2
a)	במכוז דמור אומוו שב כמצמשוב טו שבוווט טטר נט נווב ווופוווופג ט				1101100,1,2

ii b) c)

<i>b)</i>	seconds. Each liferaft of more than 40kg weight should be stowed in such a way that	МоМи0,1,2
4.20.5	the liferaft can be dragged or slid into the sea without significant lifting Liferaft Servicing	MoMu0,1,2
a) i	Liferafts based on type are to be serviced at a service station approved by the manufacturer at the following maximum intervals: SOLAS liferafts annually.	MoMu0,1,2
ii iii	ISO 9650 canister packed liferafts no less frequently than every 3 years. ISO 9650 valise packed liferafts no less frequently than 3 years except that hired valise liferafts shall be serviced annually.	
iv v	ISAF liferafts annually ORC liferafts annually	
b) 4.21.2	Servicing certificates (original or a copy) shall be kept on board.	MoMu0,1,2
a)	A yacht is recommended to have for each liferaft, a grab bag with the following minimum contents. A grab bag should have inherent flotation, at least 0.1 m^2 area of fluorescent orange colour on the outside, should be	МоМи0,1,2
b)	marked with the name of the yacht, and should have a lanyard and clip. Note: it is not intended to duplicate in a grab bag items required by other OSRs to be on board the yacht - these recommendations cover only the stowage of those items	МоМи0,1,2
4.21.3	Grab Bag Recommended Contents	
a)	2 red parachute and 2 red hand flares and cyalume-type chemical light sticks (red flares compliant with SOLAS)	MoMu1,2
<i>b)</i>	watertight hand-held EPFS (Electronic Position-Fixing System) (eg GPS) in at least one of the grab bags carried by a yacht	MoMu1,2
<i>c)</i>	SART (Search and Rescue Transponder) in at least one of the grab bags carried by a yacht	MoMu1,2
<i>d)</i>	a combined 406MHz/121.5MHz EPIRB registered to the boat (see OSR 4.19.1) in at least one of the grab bags	MoMu1,2
e)	water in re-sealable containers or a hand-operated desalinator plus containers for water	MoMu1,2
f) g)	a watertight hand-held marine VHF transceiver plus a spare set of batteries a watertight flashlight with spare batteries and bulb	МоМи0,1,2 МоМи0,1,2
h) i)	dry suits or thermal protective aids or survival bags second sea anchor for the liferaft (not required if the liferaft has already a spare sea anchor in its pack) (recommended standard ISO 17339) with swivel and >30m line diameter >9.5 mm	МоМи0,1,2
j) k)	two safety tin openers (if appropriate) first-aid kit including at least 2 tubes of sunscreen. All dressings should be capable of being effectively used in wet conditions. The first-aid kit should be clearly marked and re-sealable.	МоМи0,1,2 МоМи0,1,2
l) m) n)	signalling mirror high-energy food (min 10 000kJ per person recommended for Cat Zero) nylon string, polythene bags, seasickness tablets (min 6 per person	MoMu0,1,2 MoMu0,1,2 MoMu0,1,2
0)	recommended) watertight hand-held aviation VHF transceiver (if race area warrants)	МоМи0,1,2
4.22 4.22.1	Lifebuoys The following shall be provided within reach of the helmsman and ready for instant use:	**
a) b)	a lifebuoy with a self-igniting light and a drogue In addition to a) above, one lifebuoy within reach of the helmsman and ready for instant use, equipped with:	** MoMu0,1,2
i ii	a whistle, a drogue, a self-igniting light and a pole and flag. The pole shall be either permanently extended or be capable of being fully automatically extended (not extendable by hand) in less than 20 seconds. It shall be attached to the lifebuoy with 3 m (10 ft) of floating line and is to be of a length and so ballasted that the flag will fly at least 1.8 m (6 ft) off the water.	MoMu0,1,2 MoMu0,1,2

4.22.2	When at least two lifebuoys (and/or Lifeslings) are carried, at least one of Mol them shall depend entirely on permanent (e.g. foam) buoyancy.			MoMu0,1,2
4.22.3	Each inflatable lifebuoy and any automatic device (e.g. pole and flag extended ** by compressed gas) shall be tested and serviced at intervals in accordance			
4.22.4	with its manufacture Each lifebuoy or lifes material (4.18).	er's instructions. sling shall be fitted with mar	ine grade retro-reflective	**
4.22.5		that the colour of each lifebu	loy be a safety colour in the	**
4.23	Pyrotechnic and L	ight Signals		
4.23.1	-		to SOLAS LSA Code Chapte	r **
т.23.1	, .		d expiry date (if any) or if no	
	-	•	u expiry date (ir arry) of it h	0
		I, not older than 4 years.		
	red parachute	red hand flares LSA III	orange smoke LSA III	race
	flares LSA III 3.1	3.2	3.3	category
	6	4	2	MoMu0,1
	4	4	2	MoMu2,3
		4	2	Mo4
	2	4	2	Mu4
	TABLE 13	•	L	
4.24	Heaving Line			**
	-	he provided 15 m 25 m (5() ft 75 ft) longth roadily	**
a)	-	be provided 15 m - 25 m (50 -	Treadily	
<i>L</i> .)	accessible to cockpit		A second in D	**
<i>b)</i>	_	type is recommended - see	Appenaix D	
c)	A lifesling shall be p	rovided		MoMu0,1,2,3
4.25	Cockpit Knife			
		e, sheathed and securely res	strained shall be provided	**
		-	•	
	-	om the deck or a cockpit.		
4.26	readily accessible from Storm & Heavy W			
4.26 4.26.1	-			
	Storm & Heavy W Design		n charge consult their	**
4.26.1	Storm & Heavy W Design it is strongly record	eather Sails		**
4.26.1	Storm & Heavy W Design it is strongly record designer and sailr	eather Sails mmended that persons ir naker to decide the most	effective size for storm	
4.26.1	Storm & Heavy W Design it is strongly record designer and sails and heavy weather	eather Sails mmended that persons ir naker to decide the most er sails. The purpose of th	effective size for storm nese sails is to provide sat	fe
4.26.1	Storm & Heavy W Design it is strongly record designer and sailn and heavy weather propulsion for the	eather Sails mmended that persons ir naker to decide the most er sails. The purpose of the yacht in severe weather	effective size for storm nese sails is to provide sat -they are not intended as	fe
4.26.1	Storm & Heavy W Design it is strongly record designer and sails and heavy weather propulsion for the part of the racing	eather Sails mmended that persons ir naker to decide the most er sails. The purpose of the yacht in severe weather inventory. The areas bel	effective size for storm nese sails is to provide sat -they are not intended a ow are maxima. Smaller	fe
4.26.1	Storm & Heavy W Design it is strongly record designer and sails and heavy weather propulsion for the part of the racing areas are likely to	eather Sails mmended that persons ir naker to decide the most er sails. The purpose of the yacht in severe weather inventory. The areas belo suit some yachts accord	effective size for storm nese sails is to provide sat -they are not intended a ow are maxima. Smaller	fe
4.26.1 a)	Storm & Heavy W Design it is strongly record designer and sailn and heavy weather propulsion for the part of the racing areas are likely to other characterist	eather Sails mmended that persons ir naker to decide the most er sails. The purpose of the yacht in severe weather inventory. The areas belo suit some yachts accord	effective size for storm nese sails is to provide sat -they are not intended a ow are maxima. Smaller	fe
4.26.1 a) 4.26.2	Storm & Heavy W Design it is strongly record designer and sailing and heavy weather propulsion for the part of the racing areas are likely to other characterist High Visibility	eather Sails mmended that persons in naker to decide the most er sails. The purpose of the yacht in severe weather inventory. The areas belo suit some yachts accord cics.	effective size for storm nese sails is to provide safe -they are not intended a ow are maxima. Smaller ing to their stability and	fe s
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Storm and heavy weather jib areas shall be calculated as:

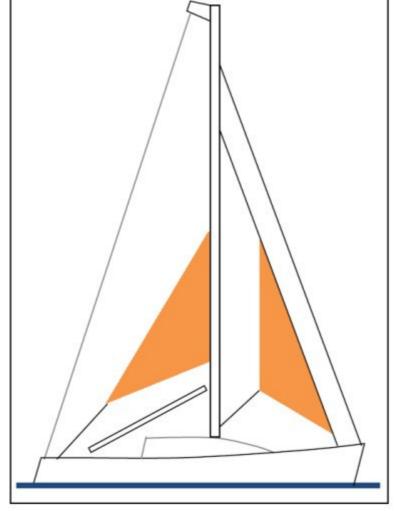
MoMu0,1,2

 $(0.255 \times \text{luff length x (luff perpendicular + 2 x half width))}^*$ To apply to sails made in January 2012 and after.

- c) a storm trysail which shall be capable of being sheeted independently of the boom with trysail area not greater than 17.5% mainsail hoist (P) x mainsail foot length (E). The storm trysail area shall be measured as (0.5 x leech length x shortest distance between tack point and leech). The storm trysail shall have neither headboard nor battens, however a storm trysail is not required in a yacht with a rotating wing mast which can adequately substitute for a trysail. The method of calculating area applies to sails made in January 2012 and after.
- d) the storm trysail as required by OSR 4.26.4 (c) shall have the yacht's sail Extract MoMu 0,1,2 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;
 e) a storm jib of area not greater than 5% height of the foretriangle squared, MoMu0,1,2
- e) a storm jib of area not greater than 5% height of the foretriangle squared, with luff maximum length 65% height of the foretriangle;
- 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 MoMu0,1,2 be capable of being set while the mainsail is furled.
- *i)* A trysail track should allow for the trysail to be hoisted quickly when the mainsail is lowered whether or not the mainsail is stowed on the main boom. It is strongly recommended that a boat has either a dedicated trysail track permanently installed with the entry point accessible to a person standing on the main deck or coachroof, or a permanently installed stay on which to hank the trysail.
- *k)* It is strongly recommended that an inner forestay is provided either permanently installed or readily set up, on which to set the storm jib.

МоМи0,1,2

MoMu0,1,2





4.27.1	A drogue for deployment over the stern, or alternatively a sea anchor or parachute anchor for deployment over the bow, complete with all gear needed to rig and deploy the sea anchor or drogue, is strongly recommended to	MoMu1
	withstand long periods in rough conditions (see Appendix F).	
4.28	Man Overboard Alarm	MoMu0
4.28.2	A yacht shall be equipped with an EPFS (e.g. GPS) capable of recording a man overboard position within 10 seconds and monitoring that position.	MoMu1,2
5.01	DN 5 - PERSONAL EQUIPMENT	
5.01.1	Lifejacket Each crew member shall have a lifejacket as follows:-	**
a)	Lach crew member shall have a mejacket 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 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.	
L)	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	Jr Jr
	accordance with ISO 12401, Note: The function of lifejacket crotch/thigh straps is to hold the buoyancy	
	element down. A crew member before a race should adjust a lifejacket to fit	
	then retain that lifejacket for the duration of the race. Correct adjustment is	
	fundamental to the lifejacket functioning correctly.	
c)	fitted with a lifejacket light in accordance with SOLAS LSA code 2.2.3 (white,	**
,	>0.75 candelas, >8 hours),	
d)	if inflatable have a compressed gas inflation system,	**
e)	if inflatable, regularly checked for gas retention,	**
f)	compatible with the wearer's safety harness,	**
g)	clearly marked with the yacht's or wearer's name,	**
j) 	It is strongly recommended that a lifejacket has a splashguard / sprayhood See ISO 12402 – 8,	<i>MoMu1,2,3,4</i>
5.01.4	The person in charge shall personally check each lifejacket at least once annually.	**
5.02	Safety Harness and Safety Lines (Tethers)	MoMu0,1,2,3
5.02.1	Each crew member shall have a harness and safety line that complies with ISO 12401 or equivalent with a safety line not more than 2m in length. Harnesses and safety lines manufactured prior to Jan 2010 shall comply with	MoMu0,1,2,3
	either ISO 12401 or EN 1095.	
	Harnesses and safety lines manufactured prior to Jan 2001 are not permitted.	
a)	Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U- bolt. For this reason the use of snaphooks with positive locking	MoMu0,1,2,3

MoMu0,1

4.27

Drogue, Sea Anchor

devices is strongly recommended.5.02.2At least 30% of the crew shall each, in addition to the above be provided withMoMu0,1,2,3

	either:-	
a)	a safety line not more than 1m long, or	MoMu0,1,2,3
b)	a mid-point snaphook on a 2m safety line	MoMu0,1,2,3
5.02.3	A safety line purchased in January 2001 or later shall have a coloured flag	MoMu0,1,2,3
	embedded in the stitching, to indicate an overload. A line which has been	
	overloaded shall be replaced as a matter of urgency.	
5.02.4	A crew member's lifejacket and harness shall be compatible	MoMu0,1,2,3
5.02.5	It is strongly recommended that:-	МоМи0,1,2,3
a)	static safety lines should be securely fastened at work stations;	МоМи0,1,2,3
b)	A harness should be fitted with a crotch strap or thigh straps.	МоМи0,1,2,3
<i>c)</i>	to draw attention to wear and damage, stitching on harness and safety lines	МоМи0,1,2,3
<i>c)</i>	should be of a colour contrasting strongly with the surrounding material;	1101100/1/2/0
<i>d</i>)	snaphooks should be of a type which will not self-release from a U-bolt (see	МоМи0,1,2,3
,	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);	
<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.	МоМи0,1,2,3
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	
4	way of preventing man overboard incidents.	
5.04	Foul Weather Suits	**
<i>b)</i>	it is recommended that a foul weather suit should be fitted with marine-grade	
	retro-reflective material, and should have high-visibility colours on its upper parts and sleeve cuffs.See OSR 4.18	
5.07	Survival Equipment	Mo0,1,2Mu0,1,2,3,4
d)	Attention is drawn to the value of keeping on the person a combined	МоМи0,1,2
	406MHz/121.5MHz PLB when on deck: this may aid location in a man	,_,_
	overboard incident independent of the equipment carried by the parent vessel	
e)	Where possible every PLB shall be registered with the appropriate authority	MoMu0,1,2
	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.	
	N 6 - TRAINING	
6.01	At least 30% but not fewer than two members of a crew, including	MoMu1,2
	the skipper shall have undertaken training within the five years	
	before the start of the race in both 6.02 topics for theoretical sessions, and 6.03 topics which include practical, hands-on sessions.	
6.01.3	<i>It is strongly recommended that all crew members should undertake training</i>	MoMu1,2
0.01.5	as in OSR 6.01 at least once every five years	1101101,2
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 Topics for Theoretical Sessions	
6.02.1	care and maintenance of safety equipment	MoMu0,1,2
6.02.2	storm sails	MoMu0,1,2
6.02.3	damage control and repair	MoMu0,1,2
6.02.4	heavy weather - crew routines, boat handling, drogues	MoMu0,1,2
6.02.5	man overboard prevention and recovery	MoMu0,1,2
6.02.6	giving assistance to other craft	MoMu0,1,2
6.02.7	hypothermia	MoMu0,1,2

6.02.8	SAR organisation and methods		MoMu0,1,2		
6.02.9	weather forecasting		MoMu0,1,2		
6.03	Training Topics for Practical, Hands-O	n Sessions	MoMu0,1,2		
6.03.1	liferafts and lifejackets		MoMu0,1,2		
6.03.2	fire precautions and use of fire extinguishe		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 prace	· · · · · · · · · · · · · · · · · · ·	**		
	intervals including the drill for man-overbo	ard recovery			
	At least two members of the crew		MoMu1		
	shall have a first aid certificate completed	within the last five years meeting			
	any of the following requirements:				
i	A certificate listed on the ISAF website ww	w.salling.org/specialregs of MINA			
	recognised courses	A VI/1 2 Elementary First Aid or			
ii	STCW 95 First Aid Training complying with	A-VI/1-3 – Elementary First Ald Or			
6 05 1	higher STCW level An example model first aid training course	is included in Annandix N	**		
0.05.4		is included in Appendix N.			
	DICES TO SPECIAL REGULATIONS				
	Appendix A - Minimum Specification for Ya	chtsmens Liferafts			
	Appendix B - A guide to ISO and other Sta				
	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	on of Oceanic Races			
	Appendix K - Moveable and Variable Ballas	t			
	Appendix M - Hull Construction Standards (Scantlings)				
	Appendix N - Model First Aid Training Cour	se			
	DIX M - Hull Construction Standards (S	cantlings)			
•	hulls pre-2010 and Multihulls)	a Data before the 1 January 2010	MaMuO 1 2		
m1	A monohull with the earliest of Age or Serie		MoMu0,1,2		
	shall comply with OSR 3.03.1, 3.03.2 and 3	.03.3 or with this appendix. A			
	multihull shall comply with this appendix.		MaMuO 1 2		
	TABLE 2	diast of any on any on the	MoMu0,1,2		
		liest of age or series date	race category		
		nuary 1986 and after	MoMu0,1		
		nuary 1987 and after	MoMu2		
	1 <i>j</i>	nuary 1988 and after	MoMu2		
m2	A yacht defined in the table above shall ha		MoMu0,1,2		
2)	modified and repaired in accordance with t				
a)	the EC Recreational Craft Directive for Cate	gory A (naving obtained the CE	MoMu0,1,2		
۲	mark), or	fahara Vachta in which case the	MaMuO 1 2		
b)	the ABS Guide for Building and Classing Of		MoMu0,1,2		
	yacht shall have on board either a certifica				
	or written statements signed by the designer and builder which confirm that they have respectively designed and built the yacht in accordance with the ABS				
	Guide,	The yacht in accordance with the ABS			
c)	ISO 12215 Category A, with written statem	ponts signed by the designer and	MoMu0,1,2		
C)	builder which confirm that they have respe		1101110,1,2		
	in accordance with the ISO standard,	cuvely designed and built the yacht			
d)	except that a race organizer or class rules	may accent when that described in	MoMu0,1,2		
uj	(a), (b), or (c) above is not available, the	• •	momu0,1,2		
	architect or other person familiar with the standards listed above that the yacht fulfills the requirements of (a), (b), or (c).				
m3	Any significant repairs or modifications to t	he hull deck coachroof keel or	MoMu0,1,2		
			. 101 100/1/2		

appendages, on a yacht defined in table 2 shall be certified by one of the methods above and an appropriate written statement or statements shall be on board.

end of file

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