# **World Sailing Offshore Special Regulations**

Extract for Race Category 2 Multihulls JANUARY 2016- DECEMBER 2017

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

# **Language & Abbreviations Used**

Mo - Monohull

Mu - Multihull

" \*\* " means the item applies to all types of boat in all Categories except 5 for which see Appendix B or 6 for which see Appendix C.

# RED TYPE indicates significant changes in 2016

Guidance notes and recommendations have been removed from the Regulations and are available on www.sailing.org/documents/offshorespecialregs/index.php

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

### **Administration**

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

World Sailing Regulation 6.9.8.3 - The Special Regulations Sub-Committee shall: (a) be responsible for the maintenance, revision and changes to the World Sailing 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	The purpose of the Offshore Special Regulations (OSR) is to establish uniform minimum equipment, accommodation and training standards for monohull and
_		multihull (excluding proa) boats racing offshore.
**	1.01.2	The OSR do not replace, but rather supplement, the requirements of
		governmental authority, Classification Society certification, the Racing Rules of Sailing (RRS), Equipment Rules of Sailing(ERS), class rules and Rating Systems.
**	1.01.3	Use of the OSR does not guarantee total safety of the boat and her crew. Particular attention is drawn to the description of OSRs for inshore racing which includes that adequate shelter and or effective rescue is available all along the
		course. This is not included in more onerous OSR categories.

- 1.02 **Responsibility of Person in Charge**
- 1.02.1 Under RRS 4 the responsibility for a boat's decision to participate in a race or continue racing is hers alone. The safety of a boat and her crew is the sole and inescapable responsibility of the Person in Charge who shall do his best to ensure that the boat is fully found, thoroughly seaworthy and manned by an experienced and appropriately trained crew who are physically fit to face bad weather. The person in charge shall also assign a person to take over his responsibilities in the event of his incapacitation.
- 1.02.2 Neither the establishment of the OSR, nor their use by Organizing Authorities, nor the inspection of a boat under the OSR in any way limits or reduces the complete and unlimited responsibility of the Person in Charge.

#### **Definitions, Abbreviations, Word Usage** 1.03

Definitions of Terms used in this document 1.03.1

TABLE 1

# Pound force (lbf)

ABS American Bureau of Shipping Month/year of first launch Age Date **AIS Automatic Identification Systems** CEN Comité Européen de Normalisation

Includes the transverse after limit of the cockpit over which water Coaming

would run in the event that when the boat is floating level the cockpit

is flooded or filled to overflowing.

**COLREGS** International Regulations for Preventing Collisions at Sea

Contained A cockpit where the combined area open aft to the sea is less than

Cockpit 50% maximum cockpit depth x maximum cockpit width

Cardio-Pulmonary Resuscitation **CPR** 

Crewmember Every person on board DSC Digital Selective Calling

ΕN European Norm

**EPIRB Emergency Position-Indicating Radio Beacon** 

**ERS** ISAF - Equipment Rules of Sailing

**FA Station** The transverse station at which the upper corner of the transom

meets the sheerline.

First Launch Month & year of first launch of the individual boat

Foul-Weather Clothing designed to keep the wearer dry and may consist of one

Suit piece or several

**GMDSS** Global Maritime Distress & Safety System

**GNSS** Global Navigation Satellite System **GPIRB** EPIRB, with integral GPS position-fixing

**GPS** Global Positioning System

The term hatch includes the entire hatch assembly including the lid or Hatch

cover as part of that assembly

High Modulus Polyethylene (Dyneema®/Spectra® or equivalent) **HMPE** 

**International Maritime Organisation** IMO

The International Mobile Satellite Organisation, the independent, **IMSO** 

> intergovernmental organisation that oversees Inmarsat's performance of its Public Service Obligations for the GMDSS and reports on these

to IMO

**INMARSAT** Inmarsat Global Limited is the private company that provides GMDSS

satellite distress and safety communications, plus general

communications via voice, fax and data

**ISAF** International Sailing Federation- (now World Sailing)

ISO International Standard Organization or International Organization for

Standardization.

ITU International Telecommunications Union

A securely fastened webbing or rope which permits a crewmember to Jackstay

move from one part of the boat to another without having to unclip a

safety harness tether.

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Lifeline Rope or wire line rigged as guardrail / guardline around the deck

LH Hull Length as defined by the ERS

LSA IMO International Life-Saving Appliance Code

LWL (Length of) loaded waterline

Monohull A boat with one hull

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.

Multihull A boat with more than one hull

Open Cockpit A cockpit that is not a Contained Cockpit.

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

Primary Month & Year of first launch of the first boat of the production series

Launch or first launch of a non-series boat

Proa Asymmetric Catamaran

Rode Rope, chain, or a combination of both, which is used to connect an

anchor to the boat.

RRS ISAF - Racing Rules of Sailing

Safety Line A tether used to connect a safety harness to a strong point

SAR Search and Rescue

SART Search and Rescue Transponder

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

SOLAS Safety of Life at Sea Convention

SSS The Safety and Stability Screening numeral

Static Ballast Material carried for the sole purpose of increasing weight and/or to

influencing stability and/or trim and which is not moved or varied in

weight while a boat is racing

Static Safety A safety line (usually shorter than a safety line carried with a harness)

Line kept clipped on at a work-station STIX ISO 12217-2 Stability Index

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

racina.

Waterline The water surface when the boat is floating in measurement trim

World Sailing formerly the International Sailing Federation or ISAF

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

Organizing Authorities shall select from one of the following categories and may modify the OSR to suit local conditions

### 2.01.3 Category 2

MoMu,2 Races of extended duration along or not far removed from shorelines or in large unprotected bays or lakes, where a high degree of self-sufficiency is required of

the boats

# 2.02 Inspection

A boat may be inspected at any time. If she fails to comply with the OSR her entry may be rejected or she will be subject to protest

# 2.03 General Requirements

2.03.1 All equipment required by OSR shall:

\*\* a) function properly

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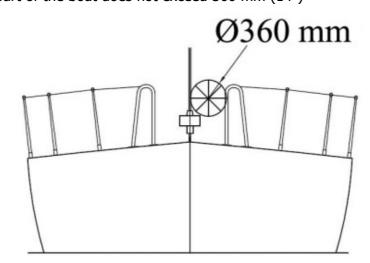
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**	L	ha wasulanki akaaliad ahaanad and aasiiaad
**	b)	be regularly checked, cleaned and serviced
**	c)	when not in use be stowed in conditions in which deterioration is minimised
**	d)	be readily accessible
ጥጥ	e)	be of a type, size and capacity suitable and adequate for the intended use and size of the boat.
**	2.03.2	Heavy items shall be permanently installed or securely fastened
SECTION 3 - S		RAL FEATURES, STABILITY, FIXED EQUIPMENT
**		A boat shall be/have:
	3.01	Strength of Build and Rig
**	3.01.1	Properly rigged, fully seaworthy and shall meet the OSR
**	3.01.2	Equipped with shrouds and at least one forestay that shall remain connected to
		the mast and the boat while racing
	3.02	Watertight Integrity of a Boat
**	3.02.1	Essentially watertight and all openings shall be capable of being immediately
		secured. Centreboard, daggerboard trunks and the like shall not open into the
		interior of a hull except via a watertight maintenance hatch with the opening
		entirely above the Waterline
MoMu0,1,2	3.03.2	A multihull and a monohull with Primary Launch between 1987 and 2010 shall
		have been designed, built, maintained, modified or repaired in accordance with
		the requirements of:
MoMu0,1,2	c)	the EC Recreational Craft Directive for Category A having obtained the CE mark,
M-M-0 1 2	.15	Or
MoMu0,1,2	d)	ISO 12215 Category A, with written statements signed by the designer and
		builder confirming that they have respectively designed and built the boat in
MoMu0,1,2	e)	accordance with the ISO standard, and have written statements or approvals in accordance with a), or b) or c) and d)
1401400,1,2	<i>C)</i>	above for all significant repairs or modifications to the hull, deck, coach roof,
		keel or appendages, on board, except
MoMu0,1,2	f)	that a race organizer or class rules may accept, when that described in (a), (b),
1 101 100/1/2	1)	(c), (d) or (e) above is not available, the signed statement by a naval architect
		or other person familiar with the standards listed above that the boat fulfils
		these requirements
Mu0,1,2,3,4	3.05	Stability and Flotation - Multihulls
Mu0,1,2,3,4	3.05.1	Watertight bulkheads and compartments (which may include permanently
		installed flotation material) in each hull, to ensure that the boat 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)
		,
Mu0,1,2,3,4	3.05.2	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in
		Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998
Mu0,1,2,3,4	3.05.3	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize
	3.05.3 <b>3.07</b>	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls
Mu0,1,2,3,4 <b>Mu0,1,2,3,4</b>	3.05.3	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits
Mu0,1,2,3,4	3.05.3 <b>3.07</b> <b>3.07.1</b>	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits At least two exits in each hull which contains accommodations
Mu0,1,2,3,4 <b>Mu0,1,2,3,4</b> Mu0,1,2,3	3.05.3 3.07 3.07.1 3.07.2	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds
Mu0,1,2,3,4 <b>Mu0,1,2,3,4</b> Mu0,1,2,3 Mu0,1,2,3,4	3.05.3 <b>3.07</b> <b>3.07.1</b>	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize Exits and Escape Hatches - Multihulls Exits At least two exits in each hull which contains accommodations Escape Hatches, Underside Clipping Points & Handholds If 12 m (39'-4") LH and greater each hull which contains accommodation:
Mu0,1,2,3,4 <b>Mu0,1,2,3,4</b> Mu0,1,2,3 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a)	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion;
Mu0,1,2,3,4 <b>Mu0,1,2,3,4</b> Mu0,1,2,3 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or
Mu0,1,2,3,4 <b>Mu0,1,2,3,4</b> Mu0,1,2,3 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a)	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits  At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a
Mu0,1,2,3,4 <b>Mu0,1,2,3,4</b> Mu0,1,2,3 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a)	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or
Mu0,1,2,3,4 <b>Mu0,1,2,3,4</b> Mu0,1,2,3 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a) i	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits  At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a crewmember to pass through fully clothed on boats if First Launch after 2002
Mu0,1,2,3,4 <b>Mu0,1,2,3,4</b> Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a) i	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits  At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a crewmember to pass through fully clothed on boats if First Launch after 2002 each escape hatch above the waterline when the boat is inverted; each escape hatch on the side nearest the vessel's central axis for a catamaran
Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a) i ii iii iv v	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits  At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a crewmember to pass through fully clothed on boats if First Launch after 2002 each escape hatch above the waterline when the boat is inverted; each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002
Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a) i ii	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998  Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits  At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a crewmember to pass through fully clothed on boats if First Launch after 2002 each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in
Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a) i ii iii iv v	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits  At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a crewmember to pass through fully clothed on boats if First Launch after 2002 each escape hatch above the waterline when the boat is inverted; each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002  if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002
Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a) i ii iii iv v	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits  At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a crewmember to pass through fully clothed on boats if First Launch after 2002 each escape hatch above the waterline when the boat is inverted; each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002  if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within
Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a) i ii iii iv v b)	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits  At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a crewmember to pass through fully clothed on boats if First Launch after 2002 each escape hatch above the waterline when the boat is inverted; each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002  if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race
Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a) i ii iii iv v	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits  At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a crewmember to pass through fully clothed on boats if First Launch after 2002 each escape hatch above the waterline when the boat is inverted; each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race appropriate handholds/clipping points on the underside sufficient for all crew
Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4	3.05.3 3.07 3.07.1 3.07.2 a) i ii iii iv v b)	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize  Exits and Escape Hatches - Multihulls  Exits  At least two exits in each hull which contains accommodations  Escape Hatches, Underside Clipping Points & Handholds  If 12 m (39'-4") LH and greater each hull which contains accommodation: an escape hatch for access to and from the hull in the event of an inversion; a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a crewmember to pass through fully clothed on boats if First Launch after 2002 each escape hatch above the waterline when the boat is inverted; each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002  if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race

Mu0,1,2,3,4	e)	a catamaran with a central nacelle first launched after 2002 shall have on the underside around the central nacelle, handholds of sufficient capacity to enable
Mu2,3,4	3.07.3	all persons on board to hold on and/or clip on securely if less than 12 m (39'-4") LH either escape hatches in compliance with OSR 3.07.2 a), b) and c) or:
Mu2,3,4	a)	in each hull which contains accommodation, 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", and
Mu2,3,4	b)	tools suitable for cutting the emergency hatch, ready for instant use, adjacent to the cutting site. Each tool shall be secured to the vessel by a lanyard.
**	<b>3.08</b> 3.08.1	Hatches & Companionways Hatch covers forward of the maximum beam station shall not open toward the interior of the boat, except hatches in the side of a coachroof or ports having an area of less than 0.071 m <sup>2</sup> (110 in <sup>2</sup> )
**	3.08.2	Hatches not conforming with 3.08.1 shall be clearly labelled and used in accordance with the following instruction "NOT TO BE OPENED AT SEA"
**	3.08.3	A hatch, including a hatch over a locker shall be:
**	a)	permanently attached and capable of being firmly shut immediately and remaining firmly shut in a 180° capsize
**	3.08.4	Companionway hatches:
**	a)	fitted with a strong securing arrangement which shall be operable from the exterior and interior even when the boat is inverted
**	b)	blocking devices:
**	i	capable of being retained in position with the hatch open or shut
**	ii	secured to the boat (e.g. by lanyard) for the duration of the race
**	iii	permit exit in the event of inversion
Mu0,1,2,3,4	3.08.7	if a multihull with a companionway hatch extending below the local sheerline either:
Mu0,1,2,3,4	a)	have a minimum sill height of 300 mm (12") and be capable of being blocked off up to the level of the local sheerline whilst giving access to the interior with the blocking device(s) in place; or
Mu0,1,2,3	b) <b>3.09</b>	be in compliance with ISO 11812 to design category A <b>Cockpits</b>
**	3.09.1	Cockpits that self-drain quickly by gravity at all angles of heel and are permanently incorporated as an integral part of the boat
**	3.09.2	A cockpit sole at least 2% LWL above the waterline (or in IMS boats with First Launch before 2003, at least 2% L above the waterline)
**	3.09.3	A bow, lateral, central or stern well is a cockpit for the purposes of OSR 3.09
**	3.09.7	Cockpit Volume
**		The maximum combined volume below lowest coamings of all contained cockpits shall be:
Extract MoMu2,3,4		primary launch before April 1992: 9% (LWL x maximum beam x freeboard abreast the cockpit)
**	b)	primary launch after March 1992 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 the working deck shall be included in calculation of cockpit volume
	3.09.8	Cockpit Drains
**		Cockpit drain cross section area of unobstructed openings (after allowance for screens if fitted) shall be at least that of:
**	a)	2 x 25 mm (1") diameter or equivalent for a boat less than 8.5 m (28') LH
**	b)	4 x 20 mm (3/4") diameter or equivalent for a boat less than 6.5 m (28') LH or greater
	<b>3.10</b>	Sea Cocks or Valves
**	2.10	
4.45		Permanently installed sea cocks or valves on all through-hull openings below
		the waterline except for integral deck scuppers and instrument through-hulls
**	3.11	Sheet Winches Sheet winches mounted in such a way that an operator is not required to be
		substantially below deck

**	3.12	<b>Mast Step</b> The heel of a keel stepped mast securely fastened to the mast step or adjoining structure
Mo0Mu0,1,2,3,4	<b>3.13</b> 3.13.1	Watertight Bulkheads Either a watertight "crash" bulkhead within 15% of LH from the bow and abaft
		the forward end of LWL, or permanently installed closed-cell foam buoyancy effectively filling the forward 30% LH of the hull
Mo0Mu0,1,2,3,4	3.13.2	Any required watertight bulkhead to be strongly built to take a full head of water pressure without allowing any leakage into the adjacent compartment
	3.14	Pulpits, Stanchions, Lifelines
**	3.14.1	The perimeter of the deck surrounded by system of lifelines and pulpits as follows:
**	a)	Continuous lifelines fixed only at (or near) the bow and stern. However a gate on each side of a boat is permitted. Except at its end fittings and at gates, the movement of a lifeline in a fore-and-aft direction shall not be constrained. Temporary sleeving shall not modify tension in the lifeline.
**	b)	Minimum heights of lifelines and pulpit rails above the working deck and vertical openings:
**	i	upper: 600 mm (24")
**	ii	intermediate: 230 mm (9")
**	iii	vertical opening: no greater than 380 mm (15") except that on a boat with a
		Primary Launch before 1993 where it shall be no greater than 560 mm (22")
**	c)	Lifelines permanently supported at intervals of not more than 2.2 m (7'-2 1/2") and shall not pass outboard of supporting stanchions
**	d)	Pulpit and stanchion bases permanently installed with pulpits and stanchions mechanically retained in their bases
**	e)	The outside of pulpit and stanchion base tubes no further inboard from the edge of the working deck than 5% of maximum beam or 150 mm (6"), whichever is greater, nor further outboard than the edge of the working deck
**	f)	Stanchions straight and vertical except that:
**	i	within the first 50 mm (2") 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")
**	ii	stanchions may be angled to not more than 10° from vertical at any point above 50 mm (2") from the deck
**	g)	A bow pulpit may be open provided the opening between the pulpit and any part of the boat does not exceed 360 mm (14")



\*\*

\*\*

Figure 2 - Diagram Showing Pulpit Opening Lifelines may terminate at or pass through adequately braced stanchions set h) inside and overlapping the bow pulpit

**	i)		<b>5</b>	d to a lifeline at the mid-point		
		<u> </u>	een supports that are af	t of the mast, the deflection		
		shall not exceed:				
**	i	50 mm (2") for an upper or single lifeline				
**	ii	120 mm (4 ¾") for an ir				
Mu0,1,2,3,4	3.14.2	•		ns, Lifelines on Multihulls		
Mu0,1,2,3,4		When on a boat it is imp	ractical to precisely follo	w OSR regarding pulpits,		
			regulations for monohul	ls shall be followed as closely		
		as possible				
	3.14.3	Spare number				
	3.14.4	Spare number				
	3,14.5	Spare number				
dede	3.14.6	<u>-</u>	3			
**		Lifelines of either:	/ (11405) /0	0.40		
Mo4,Mu**	ii	•	tnylene (HMPE) (Dyneer	na®/Spectra® or equivalent)		
**		rope	.c. 1			
**	b)	The minimum diameter i				
7.7	c)			ed without close-fitting sleeving,		
			eving may be fitted provi	ded it is regularly removed for		
**	d)	inspection.	no may be used to secur	re lifelines provided the gap it		
	u)			d shall be replaced annually		
**	e)			hall have a breaking strength		
	C)	no less than the lifeline	cilile cilclosure system s	mail have a breaking strength		
Mo4,Mu**	f)		hall he protected from cl	nafe and spliced in accordance		
1101/114	1)	with the manufacturer's	•	•		
**		TABLE 8 - Minimum Diar	•			
	LOA	wire	HMPE rope (Single	HMPE Core (Braid on		
			braid)	braid)		
	under 8	8.5m 3mm (1/8 in)		4mm (5/32 in)		
	(28ft)	, ,	,	,		
	8.5m -	13m 4mm (5/32	5mm (3/16 in)	5mm (3/16 in)		
		in)				
		3m (43 ft) 5mm (3/16in)		5mm (3/16in)		
Mu0,1,2,3,4	3.15	Multihull Nets or Tran				
Mu0,1,2,3,4	3.15.1	The word "net" is interch	nangeable 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)		<u> </u>	eable fabric, or mesh with		
				sion. Attachment points shall be		
		-	The junction between a i	net and a boat shall present no		
MuO 1 2 2 4	۵)	risk of foot trapping	tomiala on transverse an	d langitudinal support lines and		
Mu0,1,2,3,4	c)	, -		d longitudinal support lines and		
Mu() 1 2 2 /	۹)	shall be fine-stitched to a	•	normal working conditions at		
Mu0,1,2,3,4	d)	sea or in case of capsize	_			
	3.15.2			su.		
	3.13.2			ets on each side covering:-		
Mu0,1,2,3,4	a)	the area formed by the				
Mu0,1,2,3,4	b)	-		l pulpit, the mid-point of each		
, – , – , – , • , •	-,	-		rossbeam and the central hull		
Mu0,1,2,3,4	c)			cockpit or steering position		
, , , -1 -	,	-	-	after crossbeam, and the		
		intersection of the crossl	•	· · · · · · · · · · · · · · · · · · ·		
Mu0,1,2,3,4	d)			when cockpit coamings and/or		
	•	<u>-</u>		•		
		lifelines are present which	ch comply with the minim	num height requirements.		
		lifelines are present whic	th comply with the minin	num height requirements.		

	3.15.3	
Mu0,1,2,3,4		A trimaran with a single crossbeam shall have nets between the central hull and
		each outrigger on each side between two straight lines from the intersection of
		the crossbeam and the outrigger, respectively to the aft end of the pulpit on the
		central hull, and to the aftermost point of the cockpit or steering position on the
		central hull (whichever is furthest aft)
	3.16	Catamarans
Mu0,1,2,3,4		On a catamaran the total net surface shall be limited:
Mu0,1,2,3,4	a)	laterally by the hulls; and
Mu0,1,2,3,4	b)	longitudinally by transverse stations through the forestay base, and the
, , , ,	,	aftermost point of the boom lying fore and aft. However, a catamaran with a
		central nacelle (non-immersed) may satisfy the regulations for a trimaran
	3.18	Toilet
MoMu0,1,2	3.18.1	Permanently installed toilet
11011407272	3.19	Bunks
MoMu1,2,3,4	3.19.2	Permanently installed bunks
1101141,2,5,1	3.20	Cooking Facilities
MoMu0,1,2,3	3.20.1	Permanently installed cooking stove, capable of being operated safely at sea,
1101100,1,2,3	3.20.1	with fuel shutoff control
	3.21	Drinking Water Tanks & Drinking Water
	3.21.1	Drinking Water Tanks & Drinking Water  Drinking Water Tanks
MoMu2,3	J.21.1	Permanently installed delivery pump and water tank(s)
1101102,5	3.21.3	Emergency Drinking Water
MoMu1,2,3	3.21.3	At least 9 I (2.4 US Gal) of drinking water for emergency use in a dedicated and
1101101,2,5		sealed container or container(s)
	3.22	Hand Holds
**	J.22	Adequate hand holds fitted below deck
	3.23	Bilge Pumps and Buckets
**	3.23.1	two strong buckets, each with a lanyard and of at least 9 I (2.4 US Gal) capacity
	a)	two strong backets, each with a language and of at least 5 1 (2.1 05 dai) capacity
Mo3Mu0,1,2	a)	one permanently installed manual bilge pump
Mu0,1,2,3,4	c)	provision to pump out all watertight compartments (except those filled with
1100,1,2,5,1	C)	impermeable buoyancy).
**	3.23.2	All required permanently installed bilge pumps shall be operable with all cockpit
	3.23.2	seats, hatches and companionways shut and with permanently installed
		discharge pipe(s) of sufficient capacity
**	3.23.3	Bilge pumps shall not be connected to cockpit drains and shall not discharge
	3.23.3	into a Closed Cockpit
**	3.23.4	Bilge pumps shall be readily accessible for maintenance and for clearing out
	3.23.1	debris
**	3.23.5	All removable bilge pump handles retained by a lanyard
	3.24	Compass
MoMu0,1,2,3	J.= .	Marine magnetic compasses, independent of any power supply, capable of
1101140/1/2/3		being used as a steering compass:
MoMu0,1,2,3	a)	a compass, permanently installed and correctly adjusted, with deviation card
MoMu0,1,2,3	b)	a second compass which may be hand-held
	3.25	Halyards.
**		A minimum of two halyards, each capable of hoisting a sail, on each mast
	3.27	Navigation Lights
**	3.27.1	mounted above sheerline and so that they will not be masked by sails or the
		heeling of the boat
**	3.27.2	having light intensity meeting COLREGS. When incandescent bulbs are used the
		minimum power rating shall be:
**	a)	For LH less than 12 m (39'-4"), 10 W
**	b)	For LH 12 m (39'-4") and greater, 25 W
MoMu0,1,2,3	3.27.3	reserve lights having the same specifications as above, and that can be
		powered independently
**	3.27.4	spare bulbs (not required for LED)

	3.28	Engines, Generators, Fuel
	3.28.1	Propulsion Engines
**	a)	engines and associated systems installed in accordance with their
		manufacturers' guidelines and suitable for the size and intended use of the boat
MoMu0,1,2,3	b)	an engine which provides a minimum speed in knots of (1.8 x $\sqrt{LWL}$ in metres)
		or (√ LWL in feet)
Mu1.2.3		if less than 12.0 m (39'-4") LH either an inboard engine, or an outboard engine
**	٦١.	together with permanently installed fuel supply systems and fuel tank(s)
<b>ጥ</b>	d)	an inboard engine shall have a permanently installed exhaust, cooling system, fuel supply, fuel tank(s) and shall have adequate heavy weather protection
	3.28.2	Generator
**	3.20.2	If an optional generator separate from the propulsion engine is carried, it shall
		be installed in accordance with the manufacturer's guidelines
	3.28.3	Fuel Systems
MoMu0,1,2,3	a)	All fuel tanks shall be rigid (but may have permanently installed flexible linings)
	•	and shall have a shutoff valve
MoMu0,1,2,3	b)	At the start a boat shall carry sufficient fuel to meet charging requirements for
		the duration of the race and to motor at the above minimum speed for at least
		8 hours
MaMiiO 1 2 2	3.28.4	Battery Systems
MoMu0,1,2,3	a)	a dedicated engine starting battery when an electric starter is the only method for starting the engine
MoMu0,1,2,3	b)	batteries installed after 2011 shall be of the sealed type from which liquid
1.101.100,1,2,3	D)	electrolyte cannot escape
	3.29	Communications Equipment, GPS, Radar, AIS
MoMu0,1,2,3	3.29.01	a marine radio transceiver with an emergency antenna when the regular
		antenna depends upon the mast
MoMu0,1,2,3	3.29.02	if the marine radio transceiver is a VHF:
MoMu0,1,2,3	a)	a minimum rated output power of 25 W
MoMu0,1,2	b)	a masthead antenna not less than 38 cm (15") in length and co-axial feeder
MaMul 2.2	c)	cable with not more than 40% power loss (Loss Estimator)
MoMu1,2,3 MoMu1,2,3	c) d)	be DSC capable if installed after 2015 DSC capable VHF transceivers shall be programmed with an assigned MMSI
		(unique to the boat), be connected to a GPS receiver and be capable of making
		distress alert calls as well as sending and receiving a DSC position report with
		another DSC equipped station
MoMu1,2,3,4	3.29.05	
		When not in use to be stowed in a grab bag or emergency container (see OSR
		4.21)
**	3.29.06	a second radio receiver, which may be the handheld VHF in 3.29.5 above,
MoMu1,2		capable of receiving weather bulletins a GPS capable of recording a crew overboard position, within 10 seconds, and
14014111,Z		monitoring that position
MoMu1,2	3.29.13	an AIS Transponder which either:
MoMu0,1,2	a)	shares the masthead VHF antenna via a low loss AIS antenna splitter; or
MoMu0,1,2	b)	has a dedicated AIS antenna not less than 38 cm (15") in length mounted with
		its base not less than 3 m (10') above the Waterline and co-axial feeder cable
		with not more than 40% power loss (Loss Estimator)
SECTION 4 - PO	ORTABLE	<b>-</b>
	4.01	A boat shall have: Sail Letters & Numbers
**	4.01.1	Identification on sails which complies with RRS 77 and RRS Appendix G
MoMu0,1,2,3	4.01.2	An alternative means of displaying identification as required under RRS
· · · · · · · · · · · · · · · · · · ·		Appendix G for a mainsail, to be displayed when none of the numbered sails are
		set
	4.02	Search and Rescue Visibility
Mo1,Mu1,2,3,4	4.02.1	A solid area of highly-visible pink, orange or yellow
Mu0,1,2,3,4	4.02.2	A 1 m <sup>2</sup> (11 ft <sup>2</sup> ) area of highly-visible pink, orange or yellow showing when the
		boat is inverted

boat is inverted

**	4.03	Soft Wood Plugs
ጥጥ	4.04	A tapered soft wood plug stowed adjacent to every through-hull opening  Jackstays and Clipping Points
MoMu0,1,2,3		Permanently Installed fittings for jackstay ends and clipping points
MoMu0,1,2,3	4.04.1	Jackstays which shall:
MoMu0,1,2,3	a)	enable a crewmember to move readily between the working areas on deck and
M-M-0 1 2 2	1- 3	the cockpit(s) with the minimum of clipping and unclipping operations
MoMu0,1,2,3	b)	have a breaking strength of 2040 kg (4500#) and be uncoated and non-sleeved stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16"), webbing or
		HMPE rope
MoMu0,1,2,3	4.04.2	Clipping points which shall:
MoMu0,1,2,3	a)	be adjacent to stations such as the helm, sheet winches and masts, where
	•	crewmembers work
MoMu0,1,2,3	b)	enable a crewmember to clip on before coming on deck and unclip after going
		below
MoMu0,1,2,3	c)	enable two-thirds of the crew to be simultaneously clipped on without
Mu0,1,2,3	d)	depending on jackstays on a trimaran with a rudder on the outrigger, permit a crewmember to repair
1100,1,2,3	u)	the steering mechanism whilst attached to a clipping point
	4.05	Fire Fighting Equipment
**	4.05.1	A fire blanket adjacent to every cooking device with an open flame
MoMu1,2,3		2 fire extinguishers, each with 2 kg each of dry powder or equivalent, in
	4.06	different parts of the boat
MaMu1 2 2	4.06	Anchors  2 suitable anchors with rade, ready for immediate use, except that for a heat
MoMu1,2,3		2 suitable anchors with rode, ready for immediate use, except that for a boat less than 8.5 m (28') LH there shall be 1 suitable anchor with rode
	4.07	Flashlights and Searchlights
**	1102	Watertight lights with spare batteries and bulbs as follows:
MoMu0,1,2,3	a)	a searchlight, suitable for searching for a person overboard at night and for
		collision avoidance
MoMu0,1,2,3	b)	a flashlight in addition to 4.07 a)
**	4.08	First Aid Manual and First Aid Kit  A First Aid Manual and First Aid Kit. The contents and storage of the First Aid Kit
		shall reflect the likely conditions and duration of the passage, and the number
		of crew
	4.09	Foghorn
**		A foghorn
aleale	4.10	Radar Reflector
** **	4.10.1	A passive radar reflector with:
**	a) b)	octahedral circular plates of minimum diameter 30 cm (12"), or octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or
**	c)	a non-octahedral reflector with a documented Root Mean Square minimum
	-,	Radar Cross Section (RCS) area of 2 m <sup>2</sup> (22 ft <sup>2</sup> ) from 0-360° of azimuth and
		±20° of heel
dede	4.11	Navigation Equipment
**	4.12	Navigational charts (not solely electronic), light list and chart plotting equipment
**	4.12	Safety Equipment Location Chart A safety equipment location diagram in durable waterproof material, clearly
		displayed in the main accommodation, marked with the location of principal
		items of safety equipment
	4.13	Depth, Speed and Distance Instruments
MoMu0,1,2,3	4.13.1	A knotmeter or distance measuring instrument (log)
MoMu,1,2,3,4	4.13.2	A depth sounder
	4.14	Spare Number
MoMu0,1,2,3	<b>4.15</b> 4.15.1	<b>Emergency Steering</b> An emergency tiller capable of being fitted to the rudder stock except when the
1.101.100,1,2,3	7.13.1	principal method of steering is by means of an unbreakable metal tiller
MoMu0,1,2,3	4.15.2	A proven method of emergency steering with the rudder disabled
· · ·		- , - <del>-</del> ,

	4.16	Tools and Spare Parts				
**	4.16.1	Tools and spare parts, suitable for the duration	n and r	nature c	of the pas	sage
**	4.16.2	An effective means to quickly disconnect or sever the standing rigging from the				
		• •	boat			
	4.17	Boat's name				
**		The boat's name on miscellaneous buoyant e	guipmei	nt, such	as lifeia	ckets,
		cushions, lifebuoys, recovery slings, grab bag		,	,	,
	4.18	Retro-reflective material				
**		Marine grade retro-reflective material on lifeb	uoys, re	ecovery	slings, lif	erafts and
		lifejackets	• •	•	<b>.</b>	
	4.19	EPIRBs				
MoMu1,2		A water and manually activated 406 MHz EPII	RB			
MoMu0,1,2	4.19.2	A 406 MHz EPIRB registered after 2015 shall include an internal GPS				
MoMu0,1,2	4.19.3	All EPIRBs registered with the appropriate aut	thority a	associat	ed with t	he country
		code in the hexadecimal identification (15 Hexadecimal)	•			
		be registered online with the Cospas-Sarsat II			•	
		provide a registration facility and the country	has allo	wed di	rect regis	tration in
		the IBRD				
	4.20	Liferafts				
	4.20.1	Liferaft Construction				
MoMu1,2	a)	One or more inflatable liferafts with a total ca			nmodate	at least
		the total number of people on board which co	•			
MoMu1,2	į 	SOLAS LSA Code 1997 Chapter IV or later ver	-			
MoMu1,2	ii 	ISO 9650-1:2005, Type 1, Group A - Small Cr		-		
MoMu1,2	iii	ISAF liferafts manufactured before 2016 until	replace	ment is	due at e	nd of
		service life; or				
MoMu1,2	iv	ORC liferafts manufactured before 2003 until	replace	ment is	due at e	nd of
	4 20 2	service life				
M-M. 0 1 2	4.20.2	Minimum Liferaft Equipment	COL 4 C	A		
MoMu0,1,2	a)	A SOLAS liferaft shall contain as a minimum a		•	•	ha
MuMo2	c)	An ISO 9650 liferaft shall contain as a minimu	ım Pack	Z (less	than 24	nour
MoMu1,2	٩/	pack);	inmont	nnelse -	va liatad	holow Not
MOMU1,2	d)	The minimum contents of the ISO liferaft equ	-	-		
		all items are necessarily packed within the liferaft. Some items are permitted be carried within an accompanying waterproof grab bag which shall be in a				
		readily accessible location:	ı grab ı	Jag Will	CII SIIdii L	e iii a
MoMu1,2		TABLE 14-Liferaft Equipment				
1401411,2	Equipm	• •	Pack	Pack	In	In
	Lquipii	iciic	1	2	liferaft	liferaft
			>	<	incluit	or in
			24h	24h		grab
						bag
	Portabl	e buoyant baler easily operable by hand	1	1	Χ	
	Sponge		2	2	Χ	
		buoyant paddles with handles (not mitts) tied	1	1	Χ	
		t adjacent to an entrance				
		d Kit including at least 2 tubes of sunscreen.	1	0		Χ
	All dres	ssings 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	Χ	
	Waterp	roof torch with 6 h duration and separate	2	1	Χ	
	battery	and bulb or complementary torch				
	Signalli	ng mirror	1	1	Χ	
		asickness pills, per person	6	6		Χ
		tness bag with simple effective closure system,	1	1		X
	per per					
		nd flares in accordance with SOLAS LSA Code	6	3	3 min	X
	Chapte	r III, 3.2				

	ъ		2	2		V
	•	rachute flares in accordance with SOLAS LSA hapter III, 3.1	2	2	1 min	X
	Thermal protective aids in accordance with SOLAS LSA Code Chapter III, 2.5			0		X
	Repair outfit to enable survivors to repair leaks in			1	Χ	
	•	all of the inflatable compartments. Repair				
	-	s must work when wet and be capable of pplied during violent motion.				
		np or bellows which shall be simple, robust	1	1	Χ	
		mplete, with all necessary connections (loose				
	•	nall be captive to the main apparatus) ready ant use to enable air to be pumped into any				
		f the inflatable compartments. The air pump				
	or bello	ws shall be designed and built specifically for				
		peration by hand	1.5 L	0	0.5 L	Xa
		g water per person, in containers of each not nan 500mL	1.5 L	0	0.5 L	Λd
		er person	10	0		Χ
			000			
	* Drink	ing water in the grab bag (if any) may be	kJ			
		d with a desalinator device				
MoMu0,1,2	a)	Each liferaft shall be packed either in:-				
MoMu0,1,2	İ	a rigid container securely stowed on the worki open space; or:-	ng deck	k, in the	e cockpit	or in an
MoMu0,1,2	ii	a rigid container or valise securely stowed in a	dedica	ted we	ather tigh	nt locker
, ,		containing liferaft and abandon ship equipmer	nt only	which i	_	
MaMul 2	<b>b</b> )	and opens onto the cockpit or working deck,			ov bo nov	alcad in a
MoMu1,2	b)	In a boat with primary launch before June 200 valise not exceeding 40 kg securely stowed be	-		•	keu III a
		companionway	nom ac	ar aaja	cerre to a	
MoMu0,1,2	c)	On a multihull or on a monohull with moveable			eraft sha	ll be
MoMu0,1,2	d)	readily deployable whether or not the boat is in The end of each liferaft painter should be secu			to the ho	at
MoMu0,1,2	e)	Each raft shall be capable of being got to the				
, ,	•	seconds				
	4.20.3 4.20.4	Spare Number				
MoMu0,1,2	4.20.4	Spare Number Liferaft Servicing				
MoMu0,1,2	a)	A liferaft shall be serviced at a manufacturer a	uthoriz	ed serv	ice statio	n at the
		following maximum intervals:				
MoMu0,1,2 MoMu0,1,2	i ii	SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 year	rc			
MoMu0,1,2	'' iii	ISO 9650 valise packed liferafts every 3 years		that hi	red lifera	fts shall be
, ,		serviced annually	•			
MoMu0,1,2	iv	ISAF liferafts annually				
MoMu0,1,2 MoMu0,1,2	v b)	ORC liferafts annually Servicing certificates (original or a copy) on bo	nard			
1101100,1,2	<b>4.21</b>	Grab Bags	oui u			
**	f)	If a grab bag is provided it shall have inherent		-		•
		area of fluorescent orange colour on the outsi	-	ll be ma	arked wit	h the
	4.22	name of the boat, and shall have a lanyard an Crew Overboard Recovery	u ciip			
**		Within reach of the helmsman and ready for in	nstant u	ıse:		
**	4.22.1	a lifebuoy with a self-igniting light and a drogu				
MoMu0,1,2 MoMu0,1,2	4.22.2 a)	In addition to 4.22.1 above, one lifebuoy equi a whistle, a drogue, a self-igniting light and	pped wi	ıtn:		
MoMu0,1,2	а) b)	a pole and flag. The pole shall be either perma	anently	extend	ed or be	capable of
	,	being fully automatically extended	,			•

MoMu0,1,2 **	4.22.3 4.22.4	At least one lifebuoy shall depend entirely on permanent buoyancy (e.g. foam) Each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions
**	4.22.5	A heaving line, no less than 6 mm (1/4")diameter, 15 - 25 m (50 - 75') long, readily accessible to cockpit
MoMu0,1,2,3	4.22.6	A recovery sling which includes a:
MoMu0,1,2,3	a)	buoyant line of length no less than the shorter of 4 times LH or 36m (120')
MoMu0,1,2,3	b)	buoyancy section (horseshoe) with no less than 90 N (20#) buoyancy
MoMu0,1,2,3	c)	minimum strength capable to hoist a crewmember aboard
_	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.

race category	red hand flares LSA III 3.2	orange smoke LSA III 3.3
MoMu0,1	4	2
MoMu2,3	4	2
Mo4		2
Mu4		2
4.24 Coons N		

Spare Number 4.24

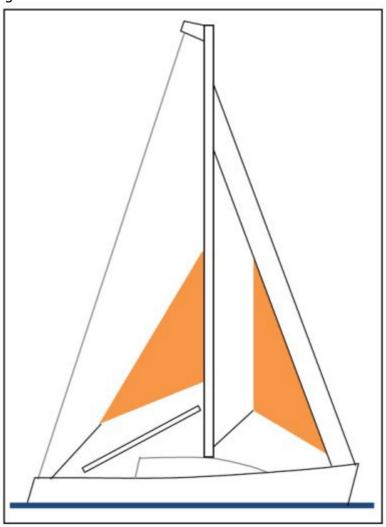
#### 4.25 **Cockpit Knife**

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

Figure 3



MoMu1,2

\*\*

A storm sail purchased after 2013 shall have a highly-visible colour (e.g. dayglo a) pink, orange or yellow)

	**	b)	Aromatic polyamides, carbon and similar fibres shall not be used in a trysail or
		,	storm jib but HMPE and similar materials are permitted
	**	c)	Sheeting positions on deck for each storm and heavy-weather sail
	**	d)	Sheeting positions for the trysail independent of the boom
	**	e)	Storm and heavy weather jib areas calculated as: (0.255 x luff length x (luff
		•,	perpendicular + 2 x half width)) *
	MoMu0,1,2	f)	The storm trysail area calculated as (0.5 x leech length x shortest distance
	1101100,1,2	')	between tack point and leech) *
	**		* Applies to sails made after 2011
		4.26.2	Sails
	**	7.20.2	The maximum area of storm sails shall be lesser of the areas below or as
			specified by the boat designer or sailmaker
	MoMu0,1,2,3	a)	A heavy-weather jib (or heavy-weather sail in a boat with no forestay) with:
	**		area of 13.5% height of the foretriangle (IG) squared
	**	l ii	readily available means, independent of a luff groove, to attach to the stay
			, ,
	MoMu0,1,2	b)	A storm jib with:
	MoMu0,1,2	İ ::	area of 5% height of the foretriangle (IG) squared
	MoMu0,1,2	ii :::	maximum luff length 65% of IG
	MoMu0,1,2	iii	permanently attached means, independent of a luff groove, to attach to the
	M M 0 4 2	,	stay
	MoMu0,1,2	c)	A storm trysail (or rotating wing mast if suitable) with:
	MoMu0,1,2	į 	area of 17.5% mainsail hoist (P) x mainsail foot length (E)
	MoMu0,1,2	ii 	no headboard
	MoMu0,1,2	iii	no battens
	MoMu0,1,2	iv	sail number and letters on both sides, as large as practicable
	MoMu0,1,2	V	in the case of a boat with an in-mast furling mainsail, the storm trysail shall be
			capable of being set while the mainsail is furled
		4.28	Spare Number
		4.29	Deck Bags
			SECTION 5 - PERSONAL EQUIPMENT
	**		Each crew member shall have:
_	**	5.01	Lifejacket
	**	5.01.1	A lifejacket which shall:
	**	a)	
	**	i)	if manufactured before 2012 comply with ISO 12402 - 3 (Level 150) or
			equivalent, including EN 396 or UL 1180 and:
	**		if inflatable have a gas inflation system
	**		have crotch/thigh straps (ride up prevention system (RUPS))
	MoMu0,1,2		have an integral safety harness in compliance with OSR 5.02
	**	ii	if manufactured after 2011 comply with ISO 12402-3 (Level 150) and be fitted
			with a whistle, lifting loop, reflective material automatic/manual gas inflation
			system
	**		crotch/thigh straps (ride up prevention system (RUPS))
	MoMu0,1,2		an integral safety harness in compliance with OSR 5.02
	MoMu0,1,2,3	b)	have an emergency position indicating light in accordance with either ISO
			12402-8 or SOLAS LSA code 2.2.3
	**	c)	be clearly marked with the boat's or wearer's name
	MoMu0,1,2,3	d)	have a sprayhood in accordance with ISO 12402-8
	MoMu0,1,2	5.01.2	A boat shall carry at least one gas inflatable lifejacket spare cylinder and, if
			appropriate, a spare activation head.
	MoMu0,1,2	5.01.3	A boat shall carry a spare at least one spare lifejacket as required in OSR 5.01.1
	**	5.01.4	The person in charge shall personally check each lifejacket at least once
ĺ			annually.
	MoMu0,1,2,3	5.02	Safety Harness and Tethers
	MoMu0,1,2,3	5.02.1	A harness that complies with ISO 12401 or equivalent and a tether that:
	MoMu0,1,2,3	a)	is not more than 2 m (6'-6") in length
	MoMu0,1,2,3	b)	complies with ISO 12401 (or EN 1095 if manufactured prior to 2010)
	MoMu0,1,2,3	c)	have overload indicator flag embedded in the stitching
	MoMu0,1,2,3	ď)	be manufactured after 2000

MoMu0,1,2,3	5.02.2	30% of the crew shall have either:
MoMu0,1,2,3	a)	a tether not more than 1 m (3'-3") long, or
MoMu0,1,2,3	b)	a mid-point snaphook on a 2 m (6'-6") tether
MoMu0,1,2,3	5.02.3	A tether which has been overloaded shall be replaced
1101100,1,2,3	5.07	Survival Equipment
MoMu0,1,2	e)	where possible every PLB shall be registered with the appropriate authority
1 101 100,1,2	C)	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.
	5.08	Diving Equipment
	5100	SECTION 6 - TRAINING
MoMu0,1,2	6.01	At least 30% but not fewer than two members of a crew, including the Person
1 101 100,1,2	0.01	in Charge shall have undertaken training within the five years before the start of
		the race topics which include practical, hands-on sessions.
	6.01.3	Spare Number
MoMu0,1,2	6.01.4	Except as otherwise provided in the Notice of Race, an in-date certificate gained
1101100,1,2	0.01.1	at a World Sailing / 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 H - Model Training Course, for further
		details.
	6.02	Spare Number
	6.03	Spare Number
	6.04	Routine Training On-Board
**	0.0.	Crews shall practice the drill for Crew-Overboard Recovery at least annually
	6.05	Medical Training
MoMu2		At least one crewmember shall have a valid first aid certificate completed within
		the last five years meeting:
MoMu0,1,2	a)	A certificate listed on the World Sailing website www.sailing.org/specialregs of
	,	MNA recognised courses
MoMu0,1,2	b)	STCW 95 First Aid Training complying with A-VI/1-3 - Elementary First Aid or
	-	higher STCW level
	6.06	Diving Training
		APPENDICES TO SPECIAL REGULATIONS
		Appendix A - Moveable and Variable Ballast
		Appendix B - For Inshore Racing
		Appendix C - For Inshore Dinghy Racing
		Appendix D - A guide to ISO and other Standards
		Appendix E - World Sailing Code for the organisation of Oceanic Races
		Appendix F - Standard Inspection Card
		Appendix G - Model Training Course
		Appendix H - Model First Aid Training Course
		Appendix J - Hypothermia
		Appendix K - Drogues and sea anchors

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