# Extract for Race Category 3 Monohulls with Life Raft JANUARY 2018- DECEMBER 2019

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

#### Copyright

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- changes have been made
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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

1.01

- 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 2018

*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@sailing.org

#### SECTION 1 - FUNDAMENTAL AND DEFINITIONS Purpose and Use

	TIOT	
**	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.

**	1.02 1.02.1	which alor Res Unc a ra Cha Cha tho app wea	ticular attention is drawn to the description of OSRs for inshore racing ch includes that adequate shelter and or effective rescue is available all ng the course. This is not included in more onerous OSR categories. <b>Sponsibility of Person in Charge</b> der <b>RRS 4</b> the responsibility for a boat's decision to participate in ace or continue racing is hers alone. The safety of a boat and her w is the sole and inescapable responsibility of the Person in arge who shall do his best to ensure that the boat is fully found, proughly seaworthy and manned by an experienced and propriately trained crew who are physically fit to face bad ather. The person in charge shall also assign a person to take er his responsibilities in the event of his incapacitation.
**	1.02.2	Neit Aut	ther the establishment of the OSR, nor their use by Organizing horities, nor the inspection of a boat under the OSR in any way limits or uces the complete and unlimited responsibility of the Person in Charge.
**	1.02.3	By p each orga incid	participating in a race conducted under the OSR, the person in charge, h competitor and boat owner agrees to reasonably cooperate with the anizing authority and World Sailing in the development of an independent dent report as specified in 2.02
	1.03		finitions, Abbreviations, Word Usage
**	1.03.1 Abbreviation #		initions of Terms used in this document Description Pound force (lbf)
	ABS		American Bureau of Shipping
	Age Date		Month/year of first launch
	AIS		Automatic Identification Systems
	CEN		Comité Européen de Normalisation
	Coaming		The part of the cockpit, including the transverse after limit, over which water would run when the boat is floating level and the cockpit is filled to overflowing
	COLREGS		International Regulations for Preventing Collisions at Sea
	Contained Cockpit		A cockpit where the combined area open aft to the sea is less than 50% maximum cockpit depth x maximum cockpit width
	CPR		Cardio-Pulmonary Resuscitation
	Crewmembe	er	Every person on board
	DSC		Digital Selective Calling
	EN		European Norm
	EPIRB		Emergency Position-Indicating Radio Beacon
	ERS		World Sailing - 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-Weathe	er	Clothing designed to keep the wearer dry and may consist of one piece
	Suit GMDSS		or several Global Maritime Distress & Safety System
	GNSS		Global Navigation Satellite System
	GPS		Global Positioning System
	Hatch		The term hatch includes the entire hatch assembly including the lid or
			cover as part of that assembly
	HMPE		High Modulus Polyethylene (Dyneema®/Spectra® or equivalent)
	IMO		International Maritime Organisation
	IMSO		The International Mobile Satellite Organisation, the independent, intergovernmental organisation that oversees Inmarsat's performance of its Public Service Obligations for the GMDSS and reports on these to
	INMARSAT		IMO Inmarsat Global Limited is the private company that provides GMDSS
			satellite distress and safety communications, plus general

ISAF	communications via voice, fax and data International Sailing Federation- (now World Sailing)
ISO	International Standard Organization or International Organization for Standardization.
ITU	International Telecommunications Union
Jackstay	A securely fastened webbing or rope which permits a crewmember to move from one part of the boat to another without having to unclip a safety harness tether.
LH	Hull Length as defined by the ERS
Lifeline	Rope or wire line rigged as guardrail / guardline around the deck
LSA	IMO International Life-Saving Appliance Code
LWL	(Length of) loaded waterline
Monohull	A boat with one hull
Moveable	Material carried for the sole purpose of increasing weight and/or
Ballast	influencing stability and/or trim and which may be moved transverse
	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	The item is effectively built-in by e.g. bolting, welding, glassing etc.
Installed	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	first launch of a non-series boat
Proa Rode	Asymmetric Catamaran
Roue	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° capsize and allows for the item to be removed and
SOLAS	replaced during racing 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
Static Ballast	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 Ballas	Water carried for the sole purpose of influencing stability and/or trim and which may be varied in weight and/or moved while a boat is
Waterline World Sailing	racing. The water surface when the boat is floating in measurement trim formerly the International Sailing Federation or ISAF
	ne words "shall" and "must" are mandatory, and "should" and "may" are
	ermissive.
	he word "yacht" shall be taken as fully interchangeable with the word
	oat".

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<ul> <li>2.01.4 Category 3</li> <li>2.01.4 Category 3</li> <li>MoMu3</li> <li>Races across open water, most of which is relatively protected or close to shorelines.</li> <li>2.02 Incident Reporting</li> <li>The Organizing Authority of a race will establish whether any incidents occurred, which if reported would be likely to be relevant to evolving the Offshore Special Regulations, the plan review process, or in increasing safety. The Organizing Authority will follow any guidelines issued by World Sailing concerning incident reporting.</li> <li>2.03 Inspection</li> <li>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</li> <li>2.04 General Requirements</li> <li>2.04.1 equipment required by OSR shall:</li> <li>** a) function properly</li> <li>** b) be regularly checked, cleaned and serviced</li> <li>** e) be of a type, size and capacity suitable and adequate for the intended use and size of the boat.</li> <li>** 2.04.2 Heavy items shall be permanently installed or securely fastened</li> <li>SECTION 3 - STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT</li> <li>** A boat small be/have:</li> <li>3.01 Strength of Build and Rig</li> <li>** 3.01.1 Properly rigged, fully seaworthy and shall meet the OSR</li> <li>** 3.02.1 Equipped with shrouds and at least one forestay that shall remain connected to the mast and the boat while racing</li> <li>3.02.4 Watertight Integrity of a Boat</li> <li>** Stability - Monohulli</li> <li>** Bable of a boay water compliance with ISO 12217-2* design category B or higher, either by EC Recreational Craft Directive certification having obtained the GE mark or the designer's declaration</li> <li>** The latest effective version of 1SO 12217-2 should be used unless the boat was already designed to a previous version</li> <li>** The latest effective version of 1SO 12217-2 should be used unless the boat was already desig</li></ul>	SECTION 2 ·	- APPLICAT	ION & GENERAL REQUIREMENTS
<ul> <li>may modify the OSR to suit local conditions</li> <li>2.01.4 Category 3         <ul> <li>Races across open water, most of which is relatively protected or close to shorelines.</li> <li>2.02 Incident Reporting                 <ul></ul></li></ul></li></ul>		2.01	Categories of Events
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<ul> <li>b) To regularly reference to the definition of the interior of a hull excessible</li> <li>when not in use be stowed in conditions in which deterioration is minimised</li> <li>be of a type, size and capacity suitable and adequate for the intended use and size of the boat.</li> <li>c) A structural FEATURES, STABILITY, FIXED EQUIPMENT</li> <li>x A boat shall be/have:</li> <li>3.01 Strength of Build and Rig</li> <li>x 3.01.1 Properly rigged, fully seaworthy and shall meet the OSR</li> <li>a.01.2 Equipped with shrouds and at least one forestay that shall remain connected to the mast and the boat while racing</li> <li>3.02 Watertight Integrity of a Boat</li> <li>x 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</li> <li>3.04 Stability - Monohulls</li> <li>Mo3 3.04.1 Able to demonstrate compliance with ISO 12217-2* design category B or higher, either by EC Recreational Craft Directive certification having obtained the CE mark or the designer's declaration</li> <li>* The latest effective version of ISO 12217-2 should be used unless the boat was already designed to a previous version</li> <li>Mo3 a) i a STIX value not less than 130 - 0.005*m, but always &gt;= 95°, (where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2); and</li> <li>ii a VIX ont less than 130 - 0.005*m, but always &gt;= 95°, (where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2); and</li> <li>iii a STIX value not less than 130 - 0.005*m, but always &gt;= 95°, (where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2); and</li> <li>iii A STIX - Monohulls</li> <li>Mo3 (P) i a STIX value not less than 130 - 0.005 *m, but always &gt;= 95°, (where "m" is</li></ul>		-	
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<ul> <li>the interior of a hull except via a watertight maintenance hatch with the opening entirely above the Waterline</li> <li>3.04</li> <li>3.04.1</li> <li>Able to demonstrate compliance with ISO 12217-2* design category B or higher, either by EC Recreational Craft Directive certification having obtained the CE mark or the designer's declaration <ul> <li>The latest effective version of ISO 12217-2 should be used unless the boat was already designed to a previous version</li> <li>Woo,1,2,3</li> <li>3.04.2</li> <li>Where compliance in accordance with 3.04.1 cannot be demonstrated, able to demonstrate either:</li> <li>Mo3</li> <li>a)</li> <li>i a STIX value not less than 23; and</li> <li>ii AVS not less than 130 - 0.005*m, but always &gt;= 95°, (where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2); and</li> <li>iii a minimum righting energy not less than m*AGZ&gt;57000 (where AGZ is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS); or</li> </ul> Extract Mo3 <ul> <li>b)</li> <li>Stability Index in ORC Rating System of not less than 103; or</li> <li>IRC SSS Base value of not less than 15</li> <li><b>3.06</b></li> <li>Extra two exits if 8.5 m (28') LH and greater and with a Primary Launch after 1994. One exit shall be located forward of the foremost mast except</li> </ul></li></ul>			
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3.06Exits - MonohullsMo0,1,2,3,43.06.1At least two exits if 8.5 m (28') LH and greater and with a Primary Launch after 1994. One exit shall be located forward of the foremost mast except		•	
Mo0,1,2,3,4 3.06.1 At least two exits if 8.5 m (28') LH and greater and with a Primary Launch after 1994. One exit shall be located forward of the foremost mast except			
after 1994. One exit shall be located forward of the foremost mast except	Mo() 1 2 2 1		
·	1100,1,2,3,4	5.00.1	
			where structural features prevent its installation

Mo0,1,2,3,4	3.06.2
Mo0,1,2,3,4	a)

Mo0,1,2,3,4

Mo0,1,2,3,4 b)

The following minimum clear hatch openings if First Launch after 2013: a circular hatch with diameter 450 mm (18''); or

any other shape with minimum dimension of 380 mm (15") and minimum area of 0.18 m<sup>2</sup> (1.9 ft<sup>2</sup>) (see figure 1)

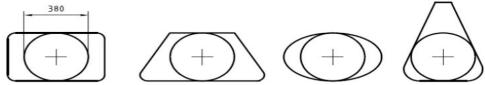


		Figure 1 - Measurements of Minimum Clear Opening
	3.08	Hatches & Companionways
**	3.08.1	Hatch covers forward of the maximum beam station shall not open toward
		the interior of the boat, except hatches in the side of a coachroof or ports
		having an area of less than 0.071 m <sup>2</sup> (110 in <sup>2</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
Mo0,1,2,3,4	b)	above the water when the boat is heeled 90°
Mo0,1,2,3,4	5)	A boat may have a maximum of two hatches on each side of centerline that
100,1,2,3,1		do not conform to the requirement in b), provided that the opening of each
		is less than $0.071^2$ m (110 in <sup>2</sup> )
**	3.08.4	Companionway hatches:
**	a)	fitted with a strong securing arrangement which shall be operable from the
	u)	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
	3.08.5	if a monohull with Open Cockpit(s):
Mo0,1,2,3,4		
Mo0,1,2,3,4	3.08.5 a)	a companionway sill that does not extend below the local sheerline; or
Mo0,1,2,3,4	b)	a companionway in full compliance with ISO 11812 category A
Mo0,1,2,3,4	3.08.6	if a monohull with Contained Cockpit(s) where the companionway extends
		below the local sheerline, panels capable of blocking the companionway up
	3.09	to the level of the local sheerline whilst giving access to the interior.
**	3.09.1	Cockpits
	5.09.1	Cockpits that self-drain quickly by gravity at all angles of heel and are
**	2 00 2	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
**	2 00 2	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
**	3.09.4	Cockpit Volume
ግ' ጥ		The maximum combined volume below lowest coamings of all contained
E due d		cockpits shall be:
Extract		primary launch before April 1992: 9% (LWL x maximum beam x freeboard
MoMu2,3,4		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
sleafe	3.09.5	Cockpit Drains
**		Cockpit drain cross section area of unobstructed openings (after allowance
		for screens if fitted) shall be at least that of:
**	a)	$2 \times 25 \text{ mm} (1'')$ 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 8.5 m (28') LH or greater

	3.10	Sea Cocks or Valves
**	3.10.1	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	Mast Step
**	3.12.1	The heel of a keel stepped mast securely fastened to the mast step or
		adjoining structure
	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
**	b)	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")
MoMu3,4	iv	a boat less than 8.5 m (28') LH may use a single lifeline system with a height
		between 450 mm (18") and 560 mm (22")
**	c)	Lifelines permanently supported at intervals of not more than 2.2 m (7'-2
<b>Ψ</b> Ψ	-D	1/2") and shall not pass outboard of supporting stanchions
**	d)	Pulpit and stanchion bases permanently installed with pulpits and stanchions
**	e)	mechanically retained in their bases The outside of pulpit and stanchion base tubes no further inboard from the
	6)	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")
**		

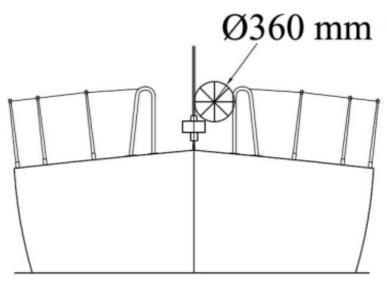


Figure 2 - Diagram Showing Pulpit Opening

**	h)	Lifolin	es may termin:	ate at or pass through adec	quately braced stanchions set
	11)		•	ng the bow pulpit	quatery braced staticitions set
**	i)			rce of 4 kg (8.8 #) is applie	ed to a lifeline at the mid-
	,			span between supports that	
			tion shall not e		
**	i			pper or single lifeline	
**	ii		• •	an intermediate lifeline	
	3.14.3		number		
	3.14.4		number		
	3,14.5 <b>3.14.6</b>		number <b>ne Specificat</b> i	ione	
Mo0,1,2,3	3.14.6 a)			stainless steel wire	
**	3.14.6 b)			ter is specified in table 8 be	elow
**	3.14.6 c)			es shall be uncoated and us	
	2				fitted provided it is regularly
			ed for inspecti		
**	3.14.6 d)				ure lifelines provided the gap
				ceed 100 mm (4"). This lan	iyard shall be replaced
**	214(c)	annua			aball barra a breaking
ጥጥ	3.14.6 e)		ponents of th gth no less thar	e lifeline enclosure system	shall have a breaking
	LH	SUCIL	Wire	HMPE rope (Single	HMPE Core (Braid on
			WIIC	braid)	braid)
	under 8.5m	(28')	3mm (1/8")	4mm (5/32")	4mm (5/32")
	8.5m - 13m		4mm	5mm (3/16")	5mm (3/16")
			(5/32")		
	over 13m (4	2'	5mm	5mm (3/16")	5mm (3/16")
	8")		(3/16")		
		F		CL	
Mo0 1 2 3	<b>3.17</b>		Rail or Foot - S	-	at 25 mm $(1'')$ located as
Mo0,1,2,3	<b>3.17</b> 3.17.1	Perma	anently installed	d toe rail of minimum heigh	
Mo0,1,2,3		Perma close	anently installed as practicable t	-	
		Perma close abrea	anently installed as practicable t st the mast	d toe rail of minimum heigh to the stanchion bases, aro	und the foredeck from
Mo0,1,2,3 Mo0,1,2,3	3.17.1	Perma close abrea An ad	anently installed as practicable t st the mast ditional lifeline	d toe rail of minimum heigh to the stanchion bases, aro	und the foredeck from 2") high is permitted in lieu of
Mo0,1,2,3	<ul><li>3.17.1</li><li>3.17.2</li><li>3.18</li></ul>	Perma close abrea An ad a toe <b>Toile</b>	anently installed as practicable t st the mast ditional lifeline rail on a boat v <b>t</b>	d toe rail of minimum heigh to the stanchion bases, aro of between 25-50 mm (1-2 with Primary Launch before	und the foredeck from 2") high is permitted in lieu of
	3.17.1 3.17.2 <b>3.18</b> 3.18.2	Perma close abrea An ad a toe <b>Toile</b> Perma	anently installed as practicable t st the mast ditional lifeline rail on a boat v t anently installed	d toe rail of minimum heigh to the stanchion bases, aro of between 25-50 mm (1-2	und the foredeck from 2") high is permitted in lieu of
Mo0,1,2,3 MoMu3,4	3.17.1 3.17.2 3.18 3.18.2 3.19	Perma close abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b>	anently installed as practicable t st the mast ditional lifeline rail on a boat v t anently installed s	d toe rail of minimum heigh to the stanchion bases, aro of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket	und the foredeck from 2") high is permitted in lieu of
Mo0,1,2,3	3.17.1 3.17.2 <b>3.18</b> 3.18.2 <b>3.19</b> 3.19.2	Perma close abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b> Perma	anently installed as practicable t st the mast ditional lifeline rail on a boat v t anently installed <b>s</b> anently installed	d toe rail of minimum heigh to the stanchion bases, aro of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket	und the foredeck from 2") high is permitted in lieu of
Mo0,1,2,3 MoMu3,4 MoMu1,2,3,4	3.17.1 3.17.2 3.18 3.18.2 3.19 3.19.2 3.20	Perma close abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b> Perma <b>Cook</b>	anently installed as practicable t st the mast ditional lifeline rail on a boat v t anently installed anently installed ing Facilities	d toe rail of minimum heigh to the stanchion bases, aro of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket d bunks	und the foredeck from 2") high is permitted in lieu of 1984.
Mo0,1,2,3 MoMu3,4	3.17.1 3.17.2 <b>3.18</b> 3.18.2 <b>3.19</b> 3.19.2	Perma close abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b> Perma <b>Cook</b>	anently installed as practicable t st the mast ditional lifeline rail on a boat v t anently installed s anently installed ing Facilities anently installed	d toe rail of minimum heigh to the stanchion bases, aro of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket d bunks d cooking stove, capable of	und the foredeck from 2") high is permitted in lieu of
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Mo0,1,2,3 MoMu3,4 MoMu1,2,3,4 MoMu0,1,2,3	3.17.1 3.17.2 3.18 3.18.2 3.19 3.19.2 3.20 3.20.1 3.21.1 3.21.1 3.21.1 3.21.3 3.21.3	Perma abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b> Perma <b>Cook</b> Perma with f <b>Drink</b> Perma <b>At lea</b> and s	anently installed as practicable to st the mast ditional lifeline rail on a boat w t anently installed ing Facilities anently installed uel shutoff con king Water Ta anently installed rgency Drinkin st 9 I (2.4 US G ealed container	d toe rail of minimum heigh to the stanchion bases, around of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket d bunks d cooking stove, capable of trol <b>inks &amp; Drinking Water</b> <b>inks</b> d delivery pump and water <b>ing Water</b>	und the foredeck from 2") high is permitted in lieu of 1984. T being operated safely at sea, tank(s)
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Mo0,1,2,3 MoMu3,4 MoMu1,2,3,4 MoMu0,1,2,3	3.17.1 3.17.2 3.18 3.18.2 3.19 3.19.2 3.20 3.20.1 3.21.1 3.21.1 3.21.1 3.21.1 3.21.3 3.21.3 3.22.1	Perma close abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b> Perma <b>Cook</b> Perma with f <b>Drink</b> Perma <b>Cook</b> Perma At lea and s <b>Hand</b>	anently installed as practicable t st the mast ditional lifeline rail on a boat v t anently installed ing Facilities anently installed uel shutoff con king Water Ta anently installed rgency Drinkin st 9 I (2.4 US C ealed container I Holds uate hand holds	d toe rail of minimum heigh to the stanchion bases, around of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket d bunks d cooking stove, capable of trol <b>inks &amp; Drinking Water</b> <b>inks</b> d delivery pump and water <b>ing Water</b> Gal) of drinking water for er or container(s)	und the foredeck from 2") high is permitted in lieu of 1984. T being operated safely at sea, tank(s)
Mo0,1,2,3 MoMu3,4 MoMu1,2,3,4 MoMu0,1,2,3 MoMu2,3 MoMu1,2,3	3.17.1 3.17.2 3.18 3.18.2 3.19 3.19.2 3.20 3.20.1 3.21.1 3.21.1 3.21.1 3.21.3 3.21.3 3.21.3 3.22.1 3.22.1 3.23	Perma close abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b> Perma <b>Cook</b> Perma with f <b>Drink</b> Perma <b>Emer</b> At lea and s <b>Hand</b> Adequ <b>Bilge</b>	anently installed as practicable t st the mast ditional lifeline rail on a boat v t anently installed ing Facilities anently installed uel shutoff con ting Water Ta anently installed uel shutoff con ting Water Ta anently installed st 9 I (2.4 US C ealed container I Holds uate hand holds	d toe rail of minimum heigh to the stanchion bases, around of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket d bunks d cooking stove, capable of trol <b>mks &amp; Drinking Water</b> <b>mks</b> d delivery pump and water <b>mg Water</b> Gal) of drinking water for er or container(s) s fitted below deck <b>Buckets</b>	und the foredeck from 2") high is permitted in lieu of 1984. T being operated safely at sea, tank(s) mergency use in a dedicated
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Mo0,1,2,3 MoMu3,4 MoMu1,2,3,4 MoMu0,1,2,3 MoMu2,3 MoMu1,2,3	3.17.1 3.17.2 3.18 3.18.2 3.19 3.19.2 3.20 3.20.1 3.21.1 3.21.1 3.21.1 3.21.3 3.21.3 3.21.3 3.22.1 3.22.1 3.23	Perma close abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b> Perma <b>Cook</b> Perma with f <b>Drink</b> Perma <b>Cook</b> Perma At lea and s <b>Hand</b> Adequ <b>Bilge</b> two s capao	anently installed as practicable t st the mast ditional lifeline rail on a boat v t anently installed ing Facilities anently installed ing Water Ta anently installed anently installed rgency Drinkin st 9 I (2.4 US G ealed container I Holds uate hand holds Pumps and E trong buckets, ity	d toe rail of minimum heigh to the stanchion bases, around of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket d bunks d cooking stove, capable of trol <b>mks &amp; Drinking Water</b> <b>mks</b> d delivery pump and water <b>mg Water</b> Gal) of drinking water for er or container(s) s fitted below deck <b>Buckets</b>	und the foredeck from 2") high is permitted in lieu of 1984. T being operated safely at sea, tank(s) mergency use in a dedicated
Mo0,1,2,3 MoMu3,4 MoMu1,2,3,4 MoMu0,1,2,3 MoMu2,3 MoMu1,2,3 ** **	3.17.1 3.17.2 3.18 3.18.2 3.19 3.19.2 3.20 3.20.1 3.21.1 3.21.1 3.21.1 3.21.1 3.21.3 3.21.3 3.22.1 3.22.1 3.23 3.23	Perma close abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b> Perma <b>Cook</b> Perma with f <b>Drink</b> Perma <b>Cook</b> Perma At lea and s <b>Hand</b> Adequ <b>Bilge</b> two s capac one p	anently installed as practicable t st the mast ditional lifeline rail on a boat v t anently installed ing Facilities anently installed ing Facilities anently installed uel shutoff con king Water Ta anently installed rgency Drinkin st 9 I (2.4 US C ealed container I Holds uate hand holds Pumps and E trong buckets, ity ermanently installed	d toe rail of minimum heigh to the stanchion bases, around of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket d bunks d cooking stove, capable of trol <b>inks &amp; Drinking Water</b> <b>inks</b> d delivery pump and water <b>ing Water</b> Sal) of drinking water for er or container(s) s fitted below deck <b>Buckets</b> each with a lanyard and of	und the foredeck from 2") high is permitted in lieu of 1984. The being operated safely at sea, tank(s) mergency use in a dedicated at least 9 I (2.4 US Gal)
Mo0,1,2,3 MoMu3,4 MoMu1,2,3,4 MoMu0,1,2,3 MoMu1,2,3 ** ** ** Mo3Mu0,1,2	3.17.1 3.17.2 3.18 3.18.2 3.19 3.19.2 3.20 3.20.1 3.21.1 3.21.1 3.21.1 3.21.3 3.21.3 3.21.3 3.22.1 3.22.1 3.23 3.23	Perma close abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b> Perma <b>Cook</b> Perma with f <b>Drink</b> Perma <b>Cook</b> Perma <b>Cook</b> Perma At lea and s <b>Hand</b> Adequ <b>Bilge</b> two s capac one p All rec cockp	anently installed as practicable to st the mast ditional lifeline rail on a boat w tanently installed ing Facilities anently installed ing Water Ta anently installed ing Water Ta anently installed realed container of 1 (2.4 US Co ealed container of Holds uate hand holds Pumps and E trong buckets, ity ermanently installed pumps and E	d toe rail of minimum heigh to the stanchion bases, around of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket d bunks d cooking stove, capable of trol <b>inks &amp; Drinking Water</b> <b>inks</b> d delivery pump and water <b>ing Water</b> Sal) of drinking water for er or container(s) s fitted below deck <b>Buckets</b> each with a lanyard and of talled manual bilge pump ently installed bilge pumps s	und the foredeck from 2") high is permitted in lieu of 1984. <sup>5</sup> being operated safely at sea, tank(s) mergency use in a dedicated at least 9 I (2.4 US Gal) shall be operable with all t and with permanently
Mo0,1,2,3 MoMu3,4 MoMu1,2,3,4 MoMu0,1,2,3 MoMu1,2,3 ** ** ** Mo3Mu0,1,2	3.17.1 3.17.2 3.18 3.18.2 3.19 3.19.2 3.20 3.20.1 3.21.1 3.21.1 3.21.1 3.21.3 3.21.3 3.21.3 3.22.1 3.22.1 3.23 3.23	Perma close abrea An ad a toe <b>Toile</b> Perma <b>Bunk</b> Perma <b>Cook</b> Perma with f <b>Drink</b> Perma <b>Cook</b> Perma <b>Cook</b> Perma At lea and s <b>Hand</b> Adequ <b>Bilge</b> two s capac one p All rec cockp	anently installed as practicable to st the mast ditional lifeline rail on a boat w tanently installed ing Facilities anently installed ing Water Ta anently ing Water Ta anently installed ing Water Ta anently installed ing Water Ta anently installed ing Water Ta anently ing Water Ta a	d toe rail of minimum heigh to the stanchion bases, around of between 25-50 mm (1-2 with Primary Launch before d toilet or fitted bucket d bunks d cooking stove, capable of trol <b>anks &amp; Drinking Water</b> <b>anks</b> d delivery pump and water <b>ang Water</b> Sal) of drinking water for er or container(s) s fitted below deck <b>Buckets</b> each with a lanyard and of talled manual bilge pump ently installed bilge pump	und the foredeck from 2") high is permitted in lieu of 1984. <sup>5</sup> being operated safely at sea, tank(s) mergency use in a dedicated at least 9 I (2.4 US Gal) shall be operable with all t and with permanently

**	3.23.3	Bilge pumps shall not be connected to cockpit drains and shall not discharge into a Closed Cockpit
**	3.23.4	Bilge pumps shall be readily accessible for maintenance and for clearing out debris
**	3.23.5 <b>3.24</b>	All removable bilge pump handles retained by a lanyard Compass
MoMu0,1,2,3	3.24	Marine magnetic compass capable of being used as a steering compass:
MoMu0,1,2,3, 4	-	Permanently installed marine magnetic steering compass, independent of any power supply, correctly adjusted with deviation card
MoMu0,1,2,3	3.24 b)	a second compass which may be hand-held and/or electronic
	3.25	Halyards.
**	3.25 <b>3.27</b>	A minimum of two halyards, each capable of hoisting a sail, on each mast 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
	512/12	the minimum power rating shall be:
**	3.27.2 a)	For LH less than 12 m (39'-4"), 10 W
**	3.27.2 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
**	2 27 4	powered independently
ት ት	3.27.4	spare bulbs (not required for LED)
	3.28	Engines, Generators, Fuel
	3.28.1	Propulsion Engines
**	3.28.1 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	3.28.1 b)	an engine which provides a minimum speed in knots of (1.8 x $\sqrt{LWL}$ in
		metres) or ( $\sqrt{LWL}$ in feet)
Mo3	3.28.1 c)	either an inboard or outboard engine, with associated tanks and fuel supply
1100	512011 0)	systems, all securely fastened
**	3.28.1 d)	an inboard engine shall have a permanently installed exhaust, cooling
	512011 4)	system, fuel supply, fuel tank(s) and shall have adequate heavy weather
		protection
	3.28.2	Generator
**	3.28.2	If an optional generator separate from the propulsion engine is carried, it
	J.20.2	shall be installed in accordance with the manufacturer's guidelines
	3.28.3	
MaM. 0 1 2 2		Fuel Systems
MoMu0,1,2,3	3.28.3 a)	All fuel tanks shall be rigid (but may have permanently installed flexible linings) and shall have a shutoff valve
MoMu0,1,2,3	3.28.3 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
	3.28.4	Battery Systems
MoMu0,1,2,3	3.28.4 a)	a dedicated engine starting battery when an electric starter is the only
	01201101)	method for starting the engine
MoMu0,1,2,3	3.28.4 b)	batteries installed after 2011 shall be of the sealed type from which liquid
1101100,1,2,5	5.20.1 5)	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
M-M 0 1 0 0	2 20 22	antenna depends upon the mast
MoMu0,1,2,3	3.29.02	if the marine radio transceiver is a VHF:
MoMu0,1,2,3	3.29.02 a)	a minimum rated output power of 25 W
MoMu3	3.29.02 b)	a masthead antenna and co-axial feeder cable with not more than 40%
		power loss
MoMu1,2,3	3.29.02 c)	be DSC capable if installed after 2015

MoMut 2.2	3.29.02 d)	DSC canable V/HE transceivers shall be programmed with an assigned MMSI
MoMu1,2,3	5.29.02 U)	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	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
. de de		OSR 4.21)
**	3.29.06	a second radio receiver, which may be the handheld VHF in 3.29.5 above,
MoMu3	3.29.08	capable of receiving weather bulletins a GPS
SECTION 4 -		
		A boat shall have:
	4.01	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
**	4.03	Soft Wood Plugs
<u> </u>	4.03.1	A tapered soft wood plug stowed adjacent to every through-hull opening
	<b>4.04</b> 4.04	Jackstays and Clipping Points
MoMu0,1,2,3 MoMu0,1,2,3	4.04	Permanently Installed fittings for jackstay ends and clipping points Jackstays which shall:
MoMu0,1,2,3	4.04.1 a)	be independent on each side of the deck
MoMu0,1,2,3	4.04.1 b)	enable a crewmember to move readily between the working areas on deck
1101100,1,2,5		and the cockpit(s) with the minimum of clipping and unclipping operations
MoMu0,1,2,3	4.04.1 c)	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	4.04.2 a)	be adjacent to stations such as the helm, sheet winches and masts, where
		crewmembers work
MoMu0,1,2,3	4.04.2 b)	enable a crewmember to clip on before coming on deck and unclip after
	4.04.2 c)	going below enable two-thirds of the crew to be simultaneously clipped on without
MoMu0,1,2,3	4.04.2 C)	depending on jackstays
	4.05	Fire Fighting Equipment
**	4.05.1	A fire blanket adjacent to every cooking device with an open flame
MoMu1,2,3	4.05.2	2 fire extinguishers, each with 2 kg each of dry powder or equivalent, in
		different parts of the boat
	4.06	Anchors
MoMu1,2,3	4.06	2 un-modified anchors that meet the anchor manufacturer's
		recommendation based on the boat's dimensions with suitable combination
		of chain and rope, ready for immediate assembly, and ready for deployment
		within 5 minutes except that for a boat less than 8.5 m (28') LH there shall
		be 1 anchor meeting the same criteria.
**	<b>4.07</b>	Flashlights and Searchlights
	4.07 4.07 ->>	Watertight lights with spare batteries and bulbs as follows:
MoMu0,1,2,3	4.07 a)	a searchlight, suitable for searching for a person overboard at night and for collision avoidance
MoMu0,1,2,3	4.07 b)	a flashlight in addition to 4.07 a)
	<b>4.08</b>	First Aid Manual and First Aid Kit
**	4.08.1	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
**	4.09.1	A foghorn

	4.10	Radar Reflector
**	4.10.1	A passive radar reflector with:
**	4.10.1 a)	octahedral circular plates of minimum diameter 30 cm (12"), or
**	4.10.1 b)	octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or
**	4.10.1 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 $\pm 20^{\circ}$ of heel
	4.11	Navigation Equipment
**	4.11.1	Navigational charts (not solely electronic), light list and chart plotting equipment
	4.12	Safety Equipment Location Chart
**	4.12.1	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
	4.15	Emergency Steering
MoMu0,1,2,3	4.15.1	An emergency tiller capable of being fitted to the rudder stock except when the 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
	4.16	Tools and Spare Parts
**	4.16.1	Tools and spare parts, suitable for the duration and nature of the passage
**	4.16.2	An effective means to quickly disconnect or sever the standing rigging from the boat
	4.17	Boat's name
**	4.17.1	The boat's name on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, recovery slings, grab bags etc.
	4.18	Retro-reflective material
**	4.18	Marine grade retro-reflective material on lifebuoys, recovery slings, liferafts and lifejackets
	4.19	EPIRBs
	4.20	Liferafts
	4.20.1	Liferaft Construction
MoMu1,2	4.20.1 a)	One or more inflatable liferafts with a total capacity to accommodate at least the total number of people on board which complies with:
MoMu1,2	4.20.1 a) i	SOLAS LSA Code 1997 Chapter IV or later version; or
MoMu1,2	4.20.1 a) ii	ISO 9650-1:2005, Type 1, Group A - Small Craft - Inflatable; or
MoMu1,2	4.20.1 a) iii	ISAF liferafts manufactured before 2016 until replacement is due at end of service life; or
MoMu1,2	4.20.1 a) iv	ORC liferafts manufactured before 2003 until replacement is due at end of service life
	4.20.2	Minimum Liferaft Equipment
MoMu0,1,2	4.20.2 a)	A SOLAS liferaft shall contain as a minimum a SOLAS A pack;
MuMo2	4.20.2 c)	An ISO 9650 liferaft shall contain as a minimum Pack 2 (less than 24 hour pack);
MoMu1,2	4.20.2 d)	The minimum contents of the ISO liferaft equipment packs are listed below. 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:
MoMu1,2	4.20.2 d) i	Portable buoyant bailer easily operable by hand
, MoMu1,2	4.20.2 d)ii	2 sponges
MoMu1,2	4.20.2 d)́iii	Pair of buoyant paddles with handles (not mitts) tied into raft adjacent to an entrance
MoMu1,2	4.20.2 d)iv	Whistle

M - M - 2		Weberstein Charles tills Charles there and
MoMu2	4.20.2 d)v	Waterproof torch with 6 h duration and
MoMu2	4.20.2 d)vi	Spare waterproof torch or spare battery and bulb
MoMu1,2	4.20.2 d)vii	Signalling mirror
MoMu1,2	4.20.2 d)viii	6 anti-seasickness pills per person *
MoMu1,2	4.20.2 d)ix	Seasickness bag per person, each with a simple, effective, closure system *
MoMu2	4.20.2 d)x	3 hand flares in accordance with SOLAS LSA Code Chapter III, 3.2.
MoMu1,2	4.20.2 d)xi	2 red parachute flares in accordance with SOLAS LSA Code Chapter III, 3.1.
		1 may be stowed in the grab bag.
MoMu1,2	4.20.2 d)xii	Kit to repair leaks in most inflatable compartments, operable in wet
		conditions and during violent motion
MoMu1,2	4.20.2 d)xiii	Hand operable air pump, capable of and ready for immediate use to inflate
		most compartments. Loose parts captive to the pump.
MoMu1,2		* may be packed in grab bag instead of liferaft
	4.20.3	Liferaft Packing and Stowage
MoMu0,1,2	4.20.3 a)	Each liferaft shall be packed either in:-
MoMu0,1,2	4.20.3 a) i	a rigid container securely stowed on the working deck, in the cockpit or in an
		open space; or:-
MoMu0,1,2	4.20.3 a) ii	a rigid container or valise securely stowed in a dedicated weather tight locker
		containing liferaft and abandon ship equipment only which is readily
		accessible and opens onto the cockpit or working deck, or transom
MoMu1,2	4.20.3 b)	In a boat with primary launch before June 2001, a liferaft may be packed in
	-	a valise not exceeding 40 kg securely stowed below deck adjacent to a
		companionway
MoMu0,1,2	4.20.3 c)	On a multihull or on a monohull with moveable ballast the liferaft shall be
	,	readily deployable whether or not the boat is inverted
MoMu0,1,2	4.20.3 d)	The end of each liferaft painter should be securely fastened to the boat
MoMu0,1,2	4.20.3 e)	Each raft shall be capable of being got to the lifelines or launched within 15
, ,	,	seconds
	4.20.4	Spare Number
	-	
MoMu0,1,2	4.20.5	Liferaft Servicing
<b>MoMu0,1,2</b> MoMu0,1,2	<b>4.20.5</b> 4.20.5 a)	Liferaft Servicing A liferaft shall be serviced at a manufacturer authorized service station at the
<b>MoMu0,1,2</b> MoMu0,1,2	<b>4.20.5</b> 4.20.5 a)	A liferaft shall be serviced at a manufacturer authorized service station at the
MoMu0,1,2	4.20.5 a)	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals:
MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years
MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b)	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) <b>4.21</b>	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b>
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b)	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) <b>4.21</b>	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) <b>4.21</b> 4.21 f)	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) ii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b>
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 **	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1 4.22.2	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 **	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1 4.22.2 4.22.3	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the helmsman and ready for immediate use
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 **	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1 4.22.2	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the helmsman and ready for immediate use Each inflatable lifebuoy and any automatic device shall be tested and
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 **	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1 4.22.2 4.22.3 4.22.6	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the helmsman and ready for immediate use Each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 **	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1 4.22.2 4.22.3	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the helmsman and ready for immediate use Each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions A heaving line, no less than 6 mm (1/4")diameter, 15 - 25 m (50 - 75') long,
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 ** MoMu3,4 **	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1 4.22.2 4.22.3 4.22.6 4.22.7	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the helmsman and ready for immediate use Each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions A heaving line, no less than 6 mm (1/4")diameter, 15 - 25 m (50 - 75') long, readily accessible to cockpit
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 ** MoMu0,1,2 ** MoMu3,4 ** **	<ul> <li>4.20.5 a) i</li> <li>4.20.5 a) i</li> <li>4.20.5 a) ii</li> <li>4.20.5 a) iii</li> <li>4.20.5 a) iv</li> <li>4.20.5 a) v</li> <li>4.20.5 b)</li> <li>4.21 f)</li> </ul> <b>4.22</b> <ul> <li>4.22.1</li> <li>4.22.1</li> <li>4.22.2</li> <li>4.22.3</li> <li>4.22.6</li> <li>4.22.7</li> <li>4.22.8</li> </ul>	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the helmsman and ready for immediate use Each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions A heaving line, no less than 6 mm (1/4")diameter, 15 - 25 m (50 - 75') long, readily accessible to cockpit A recovery sling which includes a:
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 ** MoMu0,1,2 ** MoMu3,4 ** **	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1 4.22.1 4.22.2 4.22.3 4.22.6 4.22.7 4.22.8 4.22.8 a)	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the helmsman and ready for immediate use Each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions A heaving line, no less than 6 mm (1/4")diameter, 15 - 25 m (50 - 75') long, readily accessible to cockpit A recovery sling which includes a: buoyant line of length no less than the shorter of 4 times LH or 36m (120')
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 ** MoMu3,4 ** ** MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1 4.22.2 4.22.3 4.22.6 4.22.7 4.22.8 4.22.8 a) 4.22.8 b)	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the helmsman and ready for immediate use Each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions A heaving line, no less than 6 mm (1/4")diameter, 15 - 25 m (50 - 75') long, readily accessible to cockpit A recovery sling which includes a: buoyant line of length no less than the shorter of 4 times LH or 36m (120') buoyancy section (horseshoe) with no less than 90 N (20#) buoyancy
MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 ** MoMu0,1,2 ** MoMu3,4 ** **	4.20.5 a) 4.20.5 a) i 4.20.5 a) ii 4.20.5 a) iii 4.20.5 a) iv 4.20.5 a) v 4.20.5 b) 4.21 4.21 f) 4.22 4.22.1 4.22.1 4.22.2 4.22.3 4.22.6 4.22.7 4.22.8 4.22.8 a)	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals: SOLAS liferafts annually ISO 9650 canister packed liferafts every 3 years ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually ISAF liferafts annually ORC liferafts annually ORC liferafts annually Servicing certificates (original or a copy) on board <b>Grab Bags</b> If a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip <b>Crew Overboard Identification and Recovery</b> Locator Beacons GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the helmsman and ready for immediate use Each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions A heaving line, no less than 6 mm (1/4")diameter, 15 - 25 m (50 - 75') long, readily accessible to cockpit A recovery sling which includes a: buoyant line of length no less than the shorter of 4 times LH or 36m (120')

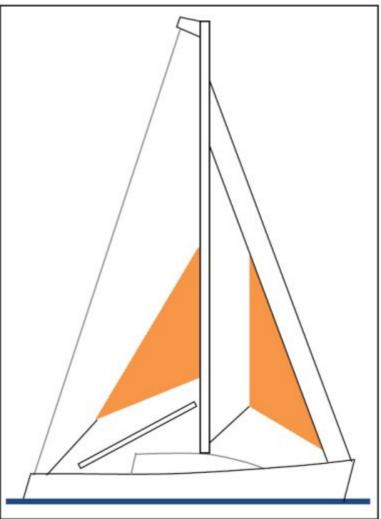
Pyrotechnic signals shall be provided conforming to SOLAS LSA Code Chapter 4.23.1 III Visual Signals and not older than the stamped expiry date (if any) or if no expiry date stamped , not older than 4 years.

	/	10000
Race Category	Red Hand Flares LSA III 3.2	Orange Smoke Flares LSA III 3.3
MoMu0,1,2,3	4	2
MoMu4		2

4.24 Spare Number 4.25

# Cockpit Knife

- 4.25.1 A strong, sharp knife, sheathed and securely restrained shall be provided readily accessible from the deck or a cockpit.
- **Storm & Heavy Weather Sails** 4.26
- 4.26.1 Design Figure 3



**	4.26.1 a)	The material of the body of a storm sail purchased after 2013 shall have a highly-visible colour (e.g. dayglo pink, orange or yellow)
**	4.26.1 b)	Aromatic polyamides, carbon and similar fibres shall not be used in a trysail or storm jib but HMPE and similar materials are permitted
**	4.26.1 c)	Sheeting positions on deck for each storm and heavy-weather sail
**	4.26.1 d)	Sheeting positions for the trysail independent of the boom
**		
**	4.26.2	Sail Areas
**	<b>4.26.2</b> 4.26.2	<b>Sail Areas</b> The maximum area of storm sails shall be lesser of the areas below or as specified by the boat designer or sailmaker
	-	The maximum area of storm sails shall be lesser of the areas below or as
**	4.26.2	The maximum area of storm sails shall be lesser of the areas below or as specified by the boat designer or sailmaker

\*\*

**	4.26.2 c)	For sails made after 2011: Storm and heavy weather jib areas calculated as:
MaMar		(0.255  x luff length x (luff perpendicular + 2 x half width))
MoMu3	4.26.2 d) vii	either a storm trysail as defined in OSR 4.26.2 d), or mainsail reefing to
	4.28	reduce the luff by at least 40% Spare Number
	<b>4.29</b>	Deck Bags
	7.29	SECTION 5 - PERSONAL EQUIPMENT
**		Each crew member shall have:
	5.01	Lifejacket
**	5.01.1	A lifejacket which shall:
**	5.01.1 a)	,
**	5.01.1 a)i)	if manufactured before 2012 comply with ISO 12402 - 3 (Level 150) or
		equivalent, including EN 396 or UL 1180 and:
**	5.01.1 a)i)	if inflatable have a gas inflation system
**	5.01.1 a)i)	have crotch/thigh straps (ride up prevention system (RUPS))
**	5.01.1 a) 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
	5.01.1 a) ii 5.01.1 b)	crotch/thigh straps (ride up prevention system (RUPS))
MoMu0,1,2,3	5.01.1 b)	have an emergency position indicating light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3
**	5.01.1 c)	be clearly marked with the boat's or wearer's name
MoMu0,1,2,3	5.01.1 d)	have a sprayhood in accordance with ISO 12402-8
MoMu0,1,2,3	5.01.2	A boat shall carry at least one gas inflatable lifejacket spare cylinder and, if
		appropriate, spare activation head for each type of lifejacket on board.
**	5.01.4	The person in charge shall personally check each lifejacket at least once
		annually.
M M 0 4 2 2	5.02	Safety Harness and Tethers
MoMu0,1,2,3	5.02.1	A harness that complies with ISO 12401 or equivalent
	5.02.2 5.02.2 a)	A tether that shall: comply with ISO 12401 or equivalent
MoMu0,1,2,3 MoMu0,1,2,3	5.02.2 b)	not exceed 2 m (6'-6") including the length of the hooks
1101100,1,2,5	5.02.2 c)	have self-closing hooks
MoMu0,1,2,3	5.02.2 d)	have overload indicator flag embedded in the stitching
MoMu0,1,2,3	5.02.1 e)	be manufactured after 2000
MoMu0,1,2,3	5.02.3	All of the crew shall have either:
_MoMu0,1,2,3	a)	a tether not exceeding 1m(3'3") including the length of the hooks, or
MoMu0,1,2,3	b)	an intermediate self-closing hook on a 2 m (6'-6") tether
MoMu0,1,2,3	5.02.4	A tether which has been overloaded shall be replaced
	5.07	Survival Equipment
MaMun	C 01 2	SECTION 6 - TRAINING
MoMu3	6.01.3	When there are only two crewmembers, at least one shall have undertaken training within the five years before the start of the race in OSR 6.02
		Training Topics
	6.02	Training Topics
	6.03	Spare Number
	6.04	Routine Training On-Board
**	6.04	At least annually the crews shall practice the drills for:
**	6.04	Crew-Overboard Recovery
**	6.04	Abandonment of vessel
	6.05	Medical Training
MoMu3,4	6.05.3	At least one member of the crew shall be familiar with First Aid procedures,
		hypothermia, drowning, cardio-pulmonary resuscitation and relevant
	6.06	communications systems
	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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