

INTERNATIONAL STANDARDS ORGANISATION

**International Sailing Federation - ISAF
ISO/TC188 Small Craft Liaison Report
April 2014**



ISAF Annual ISO Activity

ISAF is a marine user based organisation and it is from this background the federation has contributed to the development of ISO standards.

ISAF recently attended the meeting of SC1 / WG6 (Lifejackets) and formalised its relationships with this working group. In addition ISAF will be welcoming WG18: Small Craft – Hull Construction and Scantlings for their meeting in April at the ISAF offices in Southampton UK.

ISAF continues to be involved with ISO development and aims to attend meetings of WG6 and the general meeting in Baltimore this year. ISAF also uses its representative status regularly at the International Maritime Organisation (IMO).

More information about ISAF and how we use ISO standards can be seen on the following pages.

What's New?

Mandatory compliance with ISO 12217-2

The ISAF Offshore Special Regulations (more information below) had an amendment in January 2014 where the recommendation for compliance with ISO12217-2 has now moved to become an option for mandatory compliance with a stability standard; other options include stability indices from ORC, IRC or STIX and AVS values. This mandatory compliance is for OSR categories 0,1,2 and 3. Importantly within the OSR the ISO Category are mapped to the OSR Categories in terms of stability standards as follows:

OSR Category	0,1,2	3
ISO Design Category	A	B

Yacht Structural Plan Review to ISO 12215

The Offshore Special Regulations require plan review for some yachts to ISO12215 by recognized Notified Bodies. As of March 2014 there are **28** series production yachts and **34** custom yacht designs reviewed to the ISAF scheme. See below for more information.



About ISAF

The International Sailing Federation (ISAF) is the world governing body for the sport of sailing, officially recognized by the International Olympic Committee (IOC). ISAF is responsible for:

- the promotion of the sport internationally;
- managing sailing at the Olympic Games;
- developing the Racing Rules of Sailing and regulations for all sailing competitions;
- the training of judges, umpires and other administrators;
- the development of the sport around the world; and
- representing the sailors in all matters concerning the sport.

The principle members of ISAF are the 'Member National Authorities' (MNAs) which are user based and represent over 130 Countries and the Class Associations which are effectively owner association for a specific type of sailing boat from small dinghies and windsurfer to ocean going luxury yachts.

Within the ISAF rules and regulations there are a number of rule books, namely:

Racing Rules of Sailing

Equipment Rules of Sailing

Offshore Special Regulations

Class Rules for equipment ranging from Windsurfers to Offshore Racing Yachts

ISAF Offshore Special Regulations



Background

The largest application of International Standards within ISAF is for the ISAF Offshore Special Regulations (OSR) govern offshore racing for monohulls and multihulls, structural features, yacht equipment, personal equipment and training. The OSR is constantly under review and updated biannually. The document may be found here: www.sailing.org/specialregs

Whenever possible a relevant ISO Standard, CEN Norm, SOLAS regulation or other internationally-recognised standard is called up by OSR. Changes and developments in international standards are reviewed by the ISAF Special Regulations Sub-committee and may replace part of Special Regulations. Significant changes will when possible affect new yachts and/or new equipment only. The OSR invoke several International Standards relating to safety equipment on-board a yacht, personal equipment and yacht structure and stability. The



following ISO and EN standards (or draft standards) are mentioned in the Offshore Special Regulations:

ISO standard	Subject	Special Regulation No.
8729-1	marine radar reflectors	4.10
8729-2	marine radar reflectors	4.10
9650	liferafts	Appendix A Part II
11812	watertight & quick draining cockpits	3.09
12401	deck safety harness (also published as EN 1095)	5.02
12402	Personal Flotation Devices	5.01
12215	hull construction standards	3.03
12217-2	assessment of stability and buoyancy	3.04.4, 3.05
15085	guardlines (lifelines) trampolines, nets, stanchions, hooking points	3.14, 3.15
17339	sea anchors	4.27

EN standard	Subject	Special Regulation No.
394,399	lifejacket accessories	5.01
396	lifejackets	5.01
1095	deck safety harness (also published as ISO 12401)	5.02
1913-1-3	immersion suits	5.07

OSR Yacht Structural Plan Review

The aim of the ISAF Offshore Special Regulations Structural Plan Review Scheme is to implement compliance with the requirements of ISAF Offshore Special Regulations 3.03 - Hull Construction Standards (Scantlings). More information can be seen here: www.sailing.org/classesandequipment/offshore/plan_review.php

The objective of the scheme is for ISAF together with ISAF recognized notified bodies to provide certification to designers, builders and/or owners to show compliance with specific parts of the International Standard ISO 12215: Hull Construction - Scantlings specified within the scope below.

The scope of the plan review consists of application and calculation to the following parts of ISO12215 - Small Craft - Hull construction and scantlings:

- ISO 12215 Part 5: Design pressures for monohulls, design stresses, scantlings determination
All parts and annexes where applicable to design category A ("ocean") - Sailing Craft
- ISO 12215 Part 8: Rudders



All parts and annexes where applicable to design category A ("ocean") - Sailing Craft

- ISO 12215 Part 9: Sailing Craft - Appendages
All parts and annexes where applicable to design category A ("ocean")

There are two forms of certification:

- a) Series production; where several boats of the same type are produced in accordance with the plans and therefore each yacht will not require individual review and certification
- b) Custom or unique boat where the boat is a one of a kind yacht or a series production yacht that has been built or modified such that it is not in accordance with the plans of that series.

As of March 2014 there are **28** series production yachts and **34** custom yacht designs reviewed to the scheme

ISAF maintain a list of yachts reviewed under the scheme on its website with certification information. If the yacht is a series type production there will be a single entry for that type of yacht with a link to a certificate for an owner or builder to make a hardcopy. The owner then signs the declaration including the CIN/HIN of their particular yacht. For a unique yacht the certificate will not be published on the website and certificates will be issued direct from the ISAF recognized notified body upon compliance with the review requirements.

The recognized notified body returns digital copies of series production certificates to ISAF but are free to give them to individual owners on their request. Unique or custom certificates should be returned to the original enquiry source or their nominated individual.

Equipment Class Rules

All ISAF class equipment have rules controlling how the equipment is constructed, certified and used. These rules also relate to personal equipment and particularly PFDs. Within the rules for PFDs there will often be reference to International or National Standards as appropriate. A typical example is as follows:

C.3 PERSONAL EQUIPMENT

C.3.1 MANDATORY

*(a) The boat shall be equipped with **personal flotation devices (PFD)** for each **crew member** to the minimum standard EN 393 or ISO 12402-5, level 50 or the notice of race may prescribe alternatives.*

(b) The use of inflatable personal flotation devices is not permitted when racing.

In addition some yacht racing classes invoke other ISO standards relating to onboard safety equipment, personal safety equipment and yacht construction and stability.