

**Offshore Special Regulation 3.04 –Stability - Monohulls**

**Mandatory Stability Requirements**

A submission from OSR Monohull Stability Working Party, Special Regulations Sub-committee

Purpose or Objective

To amend 3.04.3 and 3.04.4 to make compliance with minimum stability requirements mandatory.

Proposal

Delete existing 3.04.3 and 3.04.4, insert new text below and renumber 3.04 as appropriate

New text:

3.04.3 Yachts shall demonstrate compliance with ISO 12217-2\*, either by EC Mo0,1,2,3  
 Recreational Craft Directive certification (having obtained the CE mark) or  
 the designer's declaration, for the race categories as follows:

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

\* The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version.

3.04.4 For yachts which cannot demonstrate compliance in accordance with Mo0,1,2,3  
 3.04.3, a yacht shall provide, as specified by the race organiser, either:  
 - the stability index/AVS in ORC Rating System or  
 - IRC SSS Base value or  
 - STIX and AVS values as below

OSR Category	0	1	2	3
ORC Stability Index min./AVS min.	ORC Stability Index			AVS
	120	115	110	103
SSS Base Value min.	35		28	15
STIX min.	32			23
AVS min.	130-0.002*m			130-0.005*m

Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.

3.04.5 *A race organizer should require compliance with a minimum stability rule or Mo 4 stability standard suitable for OSR Category 4.*

Current Position

3.04.3 *A race organizer should require compliance with a minimum stability or stability/buoyancy index. Attention is drawn to the stability index in the ORC Rules and Regulations.* Mo0,1,2,3,4

3.04.4 *ISO 12217-2 may be used as a guide to general suitability for competition in Special Regulations race categories as follows:* Mo0,1,2,3,4

Table 3

ISO Category	A	B	C
OSR Category	1-2	3	4

Reason

It is reasonable that race organizers shall require a minimum stability. Present wording in OSR para 3.04.04 is vague and hands over a complex matter in the hands of Race committees that generally will not have the competence and experience to implement these various recommendations. This generally leads to that Race organizers do not at all prescribe stability requirements.

The ISO standard has been in effect since 2002 and has recently undergone a full review without significant relevant change. It is thus stable and deemed to be effective. Use of ISO 12217-2 is therefore a simple and effective way for race organizers to request a stability statement to be completed on entry to a race.

Additional comment

In the official report from the Wingnut accidents, there was concluded that the Capsize Increment (CI) should be modified. So it was decided at ORC AGM in 2011 and no further action needs to be taken.

Regarding IRC used indices SSS and STIX, it has been confirmed by RORC Rating Office that the matter has been reviewed, but no similar actions needs to be taken.