

APPENDIX A – Stability Requirements

Monohull Boats

Boats shall provide documentation to verify stability characteristics not less than that for the relevant Race Category (AS Special Regulations Part 1, Appendix B refers). In some cases, the Race Committee (RC) may require additional information to accept a Boat's Entry.

General

The requirements specified in this appendix apply to all boats intending to enter regardless of the handicap category in which they intend to enter:

A determination by the Organising Authority (OA) or the RC as to the suitability of supplied documentation in demonstrating a boat's compliance with the stability requirements, as to whether there is a satisfactory margin as required by this Appendix or as to a boat's compliance with the stability requirements, is final and binding.

All boats – resistance to capsize

A boat must provide evidence as follows to demonstrate that it achieves **not less** than:

an ORCi **Stability Index minimum of 103** (Category 3 races) for the configuration in which the boat proposes to race or;

ISO12217-2:2015 (Small craft – Stability and buoyancy assessment and categorization – Part 2: Sailing boats of hull length greater than or equal to 6 m) or **Design Category A or B**

IRC minimum **SSS 16** minimum **STIX 23 and AVS 130 - 0.005*m** (where "m" is the boat's minimum sailing weight) - Cat A or B.

Boat holding current, valid IRC Certificate: SSS, STIX & AVS

A boat with a current IRC Certificate shall supply that certificate showing STIX & AVS or SSS to Cat A or B.

Boat holding current, valid ORCi Certificate

A boat with a current valid ORCi Certificate shall supply that certificate, including the Stability and Hydrostatics Datasheet.

Boat previously holding a valid ORCi Certificate

A boat without a current ORCi Certificate but previously held a valid certificate must supply its most recent certificate, including the Stability and Hydrostatic Datasheet, with a stability index with a satisfactory margin to the minimum Stability Index requirement for AS race Category 3 races for the configuration in which the boat proposes to race, **accompanied by a completed Stability Declaration Form** supplied by the Organising Authority.

Boat achieving ISO 12217 Design Category A or B

A boat with a current certificate demonstrating that it complies with ISO 12217, Design Category A or B shall supply that certificate, **accompanied by a completed Stability Declaration Form** supplied by the Organising Authority.

In the calculation of stability data;

The hydrostatic and stability demonstrating the boat's compliance with ISO 12217-2 Category A or B shall be derived from measurement of the freeboards and righting moment of the actual yacht by a qualified source (i.e an inclination test).

Deck and other enclosed volume above the sheerline may be considered, in which case offsetting cockpit volume shall also be considered.

Mass shall be taken as Minimum Operating Mass as defined by ISO 12217-2, paragraph 3.5.3.

A GZ curve shall be submitted as part of the ISO Statement.

Boats with movable or variable ballast

Boats achieving stability by ISO 12217 Design Category A or B

A boat with movable or variable ballast must provide evidence that it achieves not less than a Knockdown Recovery Factor (FKR) of 0.8 under International Standard ISO 12217-2, calculated in

accordance with ISO 12217 paragraph 6.6.4, with the lesser of FKR₉₀ and FKR-₉₀ used. Australian Sailing Special Regulations Appendix B 7.2.3 shall apply. Details shall be **accompanied by a completed Stability Declaration Form** supplied by the Organising Authority.

Boats achieving stability by ORCi Certificate

A boat with moveable or variable ballast must provide evidence that it achieves not less than a Ballast Leeward Recovery Index of 0.9. Australian Sailing Special Regulations Appendix B 7.1.1 shall apply.

Boats achieving stability by STIX & AVS

A boat with moveable variable ballast must provide evidence it achieves IRC minimum **STIX 23 and AVS 130 - 0.005*m** (where "m" is the boat's minimum sailing weight) - Cat A or B.

STABILITY DECLARATION

Boat Name:

I hereby certify that since the date of issue of the below information (attached verification documents to this declaration):

The issue of **ORCi Rating Certificate**, Certificate Number with an expiry date of
The issue of **ORCi Stability and Hydrostatics** datasheet issued on
The issue of proof of compliance **with ISO 12217-2 for Category A** dated
The issue of **IRC SSS, STIX and AVS**, Certificate Number with an expiry date of

Used to verify the above-mentioned boat's stability, for the purpose of the race that no alterations have been made to:

- keel or rudder, the hull structure, propeller, engine installation, tanks, anchors or batteries;
- a new engine, keel or rudder has not been fitted;
- the ballast has not been moved, removed or its weight or configuration changed in any way;
- gear and equipment has not been added or removed or its location changed;
- the mast, boom and spinnaker pole have not been altered or replaced; and
- no other change has been made which may affect the stability of the boat;

Any changes detailed below:

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I confirm that I understand my responsibilities as covered in the Racing Rules of Sailing (RRS) and the rules applicable to the Pittwater to Coffs Race; that the above information is the most recent stability information for the boat and that the above information is true and accurate to the best of my knowledge (having made due enquiry), and I undertake to advise the Race Committee of any changes to the boat made prior to each scheduled race which could change its stability.

Name:..... Signed:
(Owner/Charterer/Person-in-Charge) (Owner/Charterer/Person-in-Charge)

Dated: