

## How to measure your impala

The intention of the measuring isn't to stop you racing it is to make sure you are safe and that everyone has an equal chance.

I will refer to the ISAF cat 4 rules a lot in this text so it may be worth going through these first. They can be found here

<http://www.rorc.org/downloads/images/offshore-special-regulations/mo4.html>

The class rules can be found here <http://www.impala28.co.uk/about-2/class-rules/>

The corrector weights do not need to be lead. You can use 2lt water bottles (full please)(1lt of water=1kg) (the corrugated ones are the best as you can tie them)

Start by placing all your equipment where it is stowed, and all sails on the boat where you will be keeping them.

### Deck

- Start by checking your guard wires, are they plastic coated? If so these will need replacing as per the Cat 4 rules. The plastic does come off with a knife.
- Does your boat have webbing on the helm area for comfort? If so it will need a piece of wire between the webbing to make it continuous.
- We assume that all the deck mouldings are identical and allow for layout to change over the years so not to worry about this but if you have less than 6 winches you will need to carry weights
- The bow locker doors will need to be on or a corrector carried

### Hull

- Does your boat have an outboard? If so you will need the 160kgs of lead (or water bottles)under the sole
- If your keel is non standard then just let us know

Flotation- **CHECK THIS AFTER EVERYTHING ELSE AS YOUR CORRECTORS WILL CHANGE THIS** you will need to be in a dinghy or a pontoon for this(mooring lines slack).

- The flotation rule makes sure that your boat isn't too light. This is easily measured on a calm day and with you in a tender.
- Measure from the last part of deck(horizontal) on the bow down to the water if this is less than 945mm then you are ok

- Measure from both aft quarters (where the deck corner is near the small round moulding for the nonexistent stern rail leg??) if the average of both port and starboard number are less than 900mm and no more than 1000mm you are fine.
- If you don't hit these numbers then you will need weight. Don't add any weight until you have been through the rest of the list as you may find this helps

### Rudders

- Over the years there have been a number of non class rudders made for various reasons,
- Only the 2 allowed (mk1 and mk2) are legal. You can find details of these on the class website or by asking anyone in the class for the plans
- If you think your rudder is not legal then let us know and we can source a spare
- We will be checking a random sample at the nationals.

### Mast and Rig

- The rig will need to be within the measurements shown on the form
- All the rigs should be the same +/- a few mm but it is worth hoisting a tape measure up to check.
- Firstly measure from the bottom of the alloy section of mast to the booms black band, if this is not there then tape or paint this on (its an ISAF requirement) this should be at least 803mm
- Then hoist the tape measure to the top of the rig on the main halyard (deducting for any knots or shackles) measure to the boom black band this should not be longer than 10210mm
- Do this again with the jib halyard down to the mast base GRP this should be no more than 9450mm
- Again the same with the kite halyard this should be no more than 9650mm
- If any measurements are too long then you can always knot the halyard to restrict the hoist heights.
- Any extreme kite hoist heights (over 9750mm will need a bail added to reduce the hoist height)
- Now measure the boom length from the aft face of the mast back to the black band on the end of the boom this should be no more than 3505mm
- Your kite pole should be made of aluminium and should measure no more than 2830mm from the point where the rope and ring bear on.

## Sails

- Most of you will have an IRC measurement certificate showing sail sizes so this is easy to check.
- If not then its very easy to spread your LARGEST headsail out and follow the simple IRC measurement rules found @ <http://ircrating.org/technical-a-certification/measurement/14-technical/measurement/352-simplified-measurement-guides>
- do the same with the main and your largest kite
- please let us know if your sails are to big (or to small ) as we can help
- also check they have the Impala logo and the correct sail numbers if not then you can always amend this with tape
- does your main have 3 reefs? If not then you will need to carry a Trysail (odd for inshore racing but it's in the history of the class as the offshore one design)
- you will NEED to carry a storm/heavy weather jib and it will need to be a bright colour (orange)
- remember you can only carry **FOR THE WHOLE EVENT**
  - 1 main
  - 4 headsails
  - 3 kites
  - 1 storm jib
  - 1 trysail
- If a sail is damaged then let us know and you can change

## Interior

- The interior of the impala has changed over the years with some people taking bits out and some adding, this means that we need to equalise on the weight. There are also some quirky items you will need to carry
- most items on the list are self explanatory but the main ones are
- cushions
- headlinings
- cooker
- toilet
- joinery items
- if you do not have items on the list then you will need to add the relevant correctors,
- also all items will need to be in their NORMAL places.

## Engine

- if you have an inboard it will need to be a Yanmar 1gm(1gm10)
- if you have the outboard then it will need to have a wet (with oil and fluids) weight of 28kgs or more (this is normally a quick google)
- if you have an outboard you will have to demonstrate how the engine goes up and down whilst underway, this is to stop people having something that is just there for a token weight and not working.

#### Safety items

- the items in the safety list are non- negotiable. As they are required by ISAF and by the class rules.
- The pots pans and cutlery seems odd but it's a class tradition and we do like a cup of tea
- Please make sure all your safety kit is in date as we will ask you to replace this beforehand.

All in all it's a simple list that should only take an 30-45 mins max,  
Let me us know if you need any help with it and we will see what we can do.

The main aim for these rules is to make it fair. If you try to break/twist them then be prepared to be pulled up on it. If it's a genuine mistake then we will help you as much as we can.

Have fun.

And remember we take bribes in the form of drink and biscuits!!