

# J/100 CLASS RULES September 2008

## 5. EQUIPMENT RULES

- 5.1. Standard factory supplied furnishings and equipment, including but not limited to the swim ladder, jib roller furling, 12 volt battery, cooler, holding tank, head, floor boards, main settee bunk cushions, and bulkhead door shall not be relocated or removed when racing.
- 5.2. Safety equipment shall, at least, conform to US Coast Guard regulations.
- 5.3. **PERMITTED EQUIPMENT** while racing:
  - 5.3.1. Tactical instrumentation.
  - 5.3.2. GPS/VHF/Radar.
  - 5.3.3. Interior cruising and day-sailing amenities which don't enhance performance.
  - 5.3.4. Lifelines and/or pulpits with or without foredeck lifeline netting, shroud/lifeline rollers & other anti-chafing gear.
  - 5.3.5. Installed genoa tracks not used.
  - 5.3.6. U-bolts or pad eyes outboard of standard jib track for barber-hauling the jib, or affixing blocks to the stanchion bases or chain plates for the same purpose.
  - 5.3.7. Block and tackle Cunningham.
  - 5.3.8. Moving mainsheet swivel base forward of traveler.
  - 5.3.9. Additional foot braces, hand holds, or harness attachment points.
  - 5.3.10. Spinnaker turning blocks, twings, tack line, one pair of spinnaker sheets (e.g. no specialty light air sheets) and halyard.
  - 5.3.11. Non-factory tiller with standard tiller head, tiller straps and fasteners weighing not less than 5 kgs (11 lbs.)
  - 5.3.12. One toggle in the backstay and/or forestay.
  - 5.3.13. "J" length, double-bridled whisker pole not longer than **3505 mm**, measured from the centerline of plunger pins, with related blocks/tackle and cleats.
  - 5.3.14. Optional Self-Tacking Jib Boom.
  - 5.3.15. Storage bags of any size, number and location for the purpose of storing lines and other portable equipment.
  - 5.3.16. Substitution of blocks, cleats, tiller extension and turnbuckles by non-standard manufacturers, provided that the replacement part is of similar size, weight, power ratio and performs the same function.

## 5.4. EQUIPMENT NOT PERMITTED while racing:

- 5.4.1. Halyard locks or hooks.
- 5.4.2. Non-standard holes or tubes which feed halyards or control lines through the deck, hull or transom.
- 5.4.3. A Rudder or Keel with a profile outside the tolerances permitted by Official J/100 Class Offsets.
- 5.4.4. Use of a mast or boom which has been modified in any way, such as cutting off the mast butt to increase rake.

## 6. SAILS

- 6.1. A sail shall comply with the **class rules** in effect on the date of delivery of the sail or at **event measurement**.
- 6.2. All sail measurements shall be carried out in accordance with the Equipment Rules of Sailing ("ERS") and be manufactured from materials approved for use in IMS and commencing with sails delivered after January 1, 2005, shall have affixed at the tack by the Sailmaker, J/100 Class Royalty PAID Tags. Terms used in these class rules in **bold** letters are used as defined in the ERS.
- 6.3. Sails carried aboard for one-design class racing shall be limited to one mainsail, one roller furling jib and, when prescribed by the notice of race, two spinnakers. The mainsail shall remain attached to the spars and jib attached to the headstay for the duration of a regatta.
- 6.4. **MAINSAIL**.
  - 6.4.1. The dimensions of the mainsail shall not exceed:  
**luff length (P)** – 11.582m; **foot length (E)** – 4.115m; **leech length (MLE)** — 12.110m; **half width (MHW)** — 2.675m; **three-quarter width (MTW)** — 1.564m and **upper seven-eights width (MUW)** ---- 900mm.
  - 6.4.2. The mainsail shall have a minimum un-bagged weight of **27 lbs. (12.3 kgs)**, excluding **battens** but including luff slides.
  - 6.4.3. **4 battens** of any length shall be fitted so that the center of the **batten pockets** shall divide the **leech** of the mainsail into equal parts with a tolerance +/- 80 mm.
  - 6.4.4. The **tack ring** of the mainsail shall be affixed in the standard **tack fitting** and the **clew** of the mainsail shall not be allowed to float **free** from the **boom**. The **foot** may otherwise be loose. At least one serviceable row of reef points shall be installed approximately parallel to the **foot**, with the **tack point** and the center of the reef point in

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the **luff** to be no closer than 1200mm. An additional set of reef points is permitted. The mainsail shall be attached to the mast with sail slides. **Windows** are permitted.

6.4.5. The official J/100 class insignia ([www.jboats.com/j100/](http://www.jboats.com/j100/)) in blue with overall dimensions approximately 450x900mm shall be affixed on both sides of the sail between the upper two **batten pockets**, with the bar underneath the "J" located on, and nearly perpendicular to, a line through the **mid foot point** and a point on the top of the sail equidistant from **head point** and **aft head point**. National letters and sail numbers shall conform to the RRS and shall be placed between the middle two **batten pockets**.

## 6.5. JIB.

- 6.5.1. The jib LP (**luff perpendicular**) shall be not longer than 3.505m (approx. 100%) and the jib luff LL (**luff length**) shall be not longer than 11.506 m
- 6.5.2. The jib shall have a minimum un-bagged weight of **17 lbs. (7.7 kgs)**, including any **battens**.
- 6.5.3. Not more than 3 **battens** of any length are permitted on the **leech**, provided that they do not restrict rolling the jib on the furler. **Windows** are permitted.
- 6.5.4. The jib shall have a hollow **leech** and while racing, shall be attached to and operated on the standard roller furling system using #6 luff tape. UV protective tape may be applied to the **leech** and **foot** to cover the sail when roller furled.

## 6.6. ASYMMETRIC SPINNAKERS

6.6.1. Asymmetric spinnakers shall be manufactured from woven nylon with minimum nominal weight of not less than 40 grams per square meter with an area not greater than 80 square meters nor less than 60 square meters based on the IRC area formula:  $SPA=((SLU+SLE)/2)*((SF+(4*SHW))/5)*.83$  where SLU (luff length) shall be not greater than 14.0 m and SLE (leech length) shall be not greater than 12.7 m, and SMG (mid-girth) not less than .75\*SF (foot).

6.6.2. Adjustable leech, luff and foot lines shall be fitted.

## 7. ADDITIONAL RULES

### 7.1 CREW WEIGHT:

7.1.1 One-Design Event. When racing as a one-design fleet, the maximum crew weight (in swimming apparel) for one-design racing is 400 kilograms (882 lbs.) with no limit on numbers of crew. An Owner who is the sole Driver for a regatta may elect a weight

of 100 kg (220 lbs.) for that regatta, in which case he or she shall not be subject to weigh-in or other weight check. If the sailing instructions require a weigh-in prior to the start of a regatta, a boat complying with the weight restrictions at weigh-in shall not otherwise be subject to a weigh-in during or after the regatta, except for weighing substitute crew.

7.1.2 IRC or Handicap Racing Event. When racing under PHRF, IRC or other handicap system in a mixed fleet, the crew weight limits imposed by the handicap rating rule shall apply.

### 7.2 BOAT WEIGHT.

7.2.1 The total dry weight of the boat, for one-design racing including all standard fixed fittings, factory installed optional equipment, items specified in #5.1, spars, standing rigging, standard running rigging and blocks, and installed electronics; but excluding sails, fenders, docklines, spare blocks & line, anchor & rode, tools, personal gear, safety gear, galley equipment, rafts, whisker pole, fuel & water, food & beverages or any other loose gear; shall be not less than 3000 kgs. (6600 lbs.)

7.2.2 Additional weight equalization procedures may be prescribed by the J/100 Class or Notice of Race.

### 7.3 MAST RAKE

To control mast rake, the headstay system length including the standard Harken roller furling unit, measured between the centerline of the headstay pin on the mast to the centerline of the tack pin above the deck, shall be not greater than **12.15 m** nor less than **12.1 m**.

### 7.4 ROLL TACKING/JIBING

Notwithstanding the provisions of RRS 42, 42.3 or 49, hanging on the mast or shrouds to promote roll tacking or roll gybing is prohibited at all times. For purposes of RRS 49.2, roll tacking or roll gybing shall not be a "necessary task."

### 7.5 HIKING RULE

When sailing one-design\* as a separate fleet, no part of the crew's upper torso shall be outboard of the vertical line projected upward from the sheerline, perpendicular to the waterplane.

\* When sailing under IRC, PHRF or other handicap rules, handicap rule restrictions shall apply.

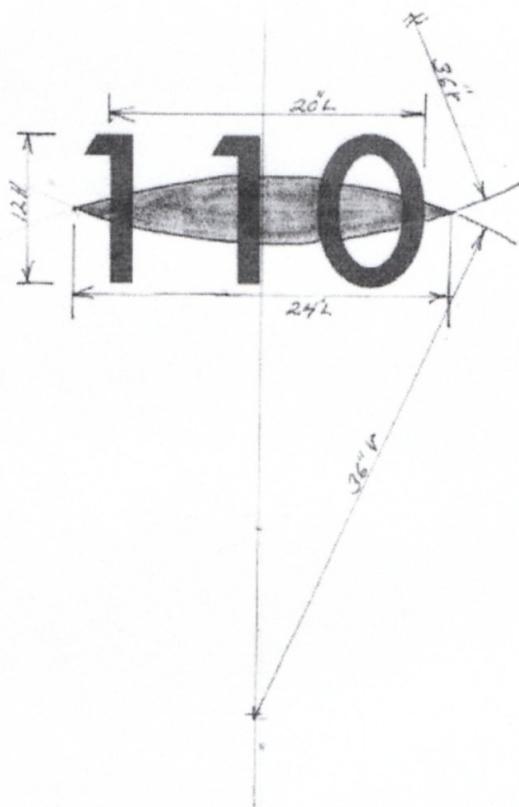
## ARTICLE II - Mainsails

1. **Materials:** Mainsails may be made of any synthetic material. The weight is optional. The following are permitted: Stitching, gluing, tapes, bolt ropes, corner eyes, headboard, Cunningham eye, batten pocket patches, leach line with cleat, windows, tell tales, and draft stripes.
2. **Battens:** The maximum numbers of battens permitted shall be limited to four. The battens may be constructed of any material. The uppermost batten may extend to the luff. The battens shall divide the leech into five equal parts +/- 2". Batten pockets below the uppermost shall not be longer than 43.5". The inside width of the batten pockets shall not exceed 2".
3. **Primary Sail Dimensions:**
  - a. *G.7.1 Foot Length:* Maximum 9' 7-1/4". Loose footed is allowed. The length of the foot shall be controlled by the mast and the band on the boom. Distance from the aft face of the mast to the inner edge of the boom band shall not exceed, 9' 7-1/4". No part of the tack shall extend forward of the aft face of the mast. No part of the clew shall extend past the inner edge of the boom band.
  - b. *G.7.2 Leech Length:* Maximum 21' 7".
  - c. *G.7.3 Luff Length:* Maximum 19' 6-1/4". The length of the luff shall be controlled by the bands on the mast. No part of the head shall extend beyond the bottom of the upper mast band. No part of the tack shall extend below the top of the lower mast band.
  - d. *G.7.5 Half Width:* Maximum 6' 7"
  - e. *G.7.6 Three-Quarter Width:* Maximum 4'
  - f. *G.7.7 Upper Width:* Maximum 17". Located 12" down from the top of the headboard and 90 degrees to the luff.
  - g. *G.7.8 Top Width:* Maximum 6-3/4"
4. **Insignia and Numbers:** The Class Insignia "110" and registered racing number in figures not less than 8" high and not less than 2" block width in any contrasting color shall be affixed to both sides of the mainsail in the manner shown in the following example:

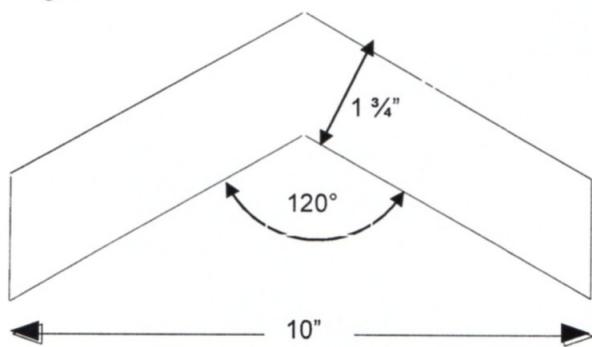
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The Class Insignia shall be superimposed with the Class Logo. The Class Logo is a figure forming a lens shape, comprising two intersecting circular arcs joined at the end points. The shape is a representation of the plan view (top view) of a 110 hull. The arcs have a radius of 3/2 the length of the figure. The suggested size of the logo is 24" long, 4" wide, formed by 2 intersecting arcs 36" long. A figure slightly larger or smaller may be used in the same proportions. Any contrasting color may be used. See sketch on following page.



**5. Chevrons:** Chevrons shall be of the dimensions indicated on the following diagram:



a. Chevrons may be displayed on the mainsail at any point above the lower batten. Chevrons shall be attached with the vertex upward.

b. The following chevron colors denote the type of Championship won:

International Championship	Gold
Atlantic Championship	Silver
Great Lakes Championship	Orange
Pacific Championship	Green
District Championship	Blue
Fleet Championship	Red

c. Chevrons are awarded not to the yacht, but to the skipper and shall be retained by the skipper for use on any 110 that s/he may sail while still a member of the Association.

### ARTICLE III - GENOA

- 1. Materials:** Genoas may be made of any material. The weight is optional. The following are permitted: Stitching, gluing, tapes, snap hanks or zipper luff, corner eyes, Cunningham eye, leach line with cleat, foot line with cleat, windows, tell tales, and draft stripes.
- 2. Sail Reinforcement and Battens:** No battens or headboards, oversized grommets shall be permitted. Primary reinforcement is allowed, but no secondary reinforcement is allowed.
- 3. Primary Sail Dimensions:**
  - a. G.7.1 Foot Length:** Maximum 10'
  - b. G.7.2 Leech Length:** Maximum 15'
  - c. G.7.3 Luff Length:** Maximum 15'- $\frac{3}{4}$ " —  $15 \times 10 \times 15$
  - d. G.7.5 Half Width:** Maximum 4'-8"
- 4. Windows:** A portion of the sail near the foot may be made of transparent plastic material. This shall be limited to a reasonable area for viewing purposes, and shall present a minimum compromise of the intent of any of the accompanying regulations. Two additional windows are allowed not to exceed 100 square inches each.

### ARTICLE IV - SPINNAKERS

- 1. Number of spinnakers:** No more than two spinnakers shall be carried on board during a race. In the International Championship only, sail changes from symmetrical to asymmetrical and vice versa shall not be made during a race day. Only one spinnaker may be used at a time.
- 2. Materials:** Spinnakers may be made of any woven material. The weight is optional.
- 3. Sail Reinforcement:** No battens or headboards, oversized grommets shall be permitted. Primary reinforcement is allowed. Secondary reinforcement is allowed at a sail recovery point.

4. **Racing Number:** The registered racing number, in figures not less than 8" high and not less than 2" block width in any contrasting color shall be affixed to at least one side of the spinnaker. The class Insignia "110" need not be displayed on the spinnaker.
5. **Symmetrical Spinnakers:** Basic dimensions:
  - a. *G.7.1 Foot Length:* Maximum 12'
  - b. *G.7.2 Leech Length:* Maximum 16'-6"
  - c. *G.7.4 Quarter Width:* Maximum 12'-6"
  - d. *G.7.5 Half Width:* Maximum 12'
  - e. *G.7.6 Three-Quarter Width:* Maximum 8'-6"
6. **Asymmetrical Spinnakers**
  - a. Basic Dimensions (TBD = to be determined after 2014 sailing season)
    - i. *G.7.1 Foot Length:* Maximum TBD, minimum TBD
    - ii. *G.7.2 Leech Length:* Maximum TBD, minimum TBD
    - iii. *G.7.3 Luff Length:* Maximum 21', minimum TBD
    - iv. *G.7.4 Quarter Width:* Maximum TBD, minimum TBD
    - v. *G.7.5 Half Width:* Maximum TBD, minimum TBD
    - vi. *G.7.6 Three-quarter Width:* Maximum TBD, minimum TBD
    - vii. The Half Width must be greater than 75% of the Foot Length
  - b. Sail Area: Maximum sail area shall be 220.4 SF as measured by the following formula:
$$SA = [(luff\ length + leech\ length) * 0.25 * foot\ length] + [(half\ width - 0.5 * foot\ length) * (leech\ length + luff\ length)] / 3$$
  - c. An adjustable tack line may be used with an asymmetrical spinnaker. An asymmetrical spinnaker shall be tacked to the deck along the centerline of the boat not forward of the bow and not aft of the forestay.
  - d. The spinnaker pole shall not be used with an asymmetrical spinnaker.