



The Shrimper Owners Association



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| <p style="text-align: center;">CORNISH SHRIMPER SAIL MEASURING GUIDELINES APRIL 2008</p> |
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At a meeting of the Regional Hon. Secretaries in October 2007 one of the issues raised was the disappointingly high number of sails that did not measure. It was agreed neither to change our rules nor to change the sail plan, drawn by Roger Dongray in 1978, which shows the sail measurements. However we did agree that an optional third reefing position would be shown and the minimum number of reefing ties added.

Several areas are now measuring owners' sails. Some areas provide this as a completely voluntary service but others will measure all the top boats in their racing fleets. There are now several different sail makers within the fleet and it is hoped that this guide will reduce the number of sails found to be oversized.

Before we enter into details we thought it would be helpful to repeat sections from our One-Design Class Rules. They start with our Concept and Ethos.

ONE-DESIGN CLASS RULES

CONCEPT

To keep all Shrimpers equally competitive, requiring no extra expense beyond the purchase of a standard Shrimper, but to allow freedom to tune the rig and carry out personal alterations to the interior or to deck/cockpit fittings for comfort, ease of handling and optimum performance.

SHRIMPER RACING ETHOS

"Fast but fair" is the motto. We shall remain a self-policing Association of competitive helmsmen, complying with the accepted "Racing Rules of Sailing", and any local Rules that may be in force, and applying the above "Concept" rigorously and honestly to maintain a one-design racing fleet in which no boat has been given a material advantage over the "Standard Shrimper".

A "Standard Shrimper" is the original basic outboard Shrimper specification designed by Roger Dongray and built by Cornish Crabbers Ltd. No subsequent alterations to the design by Designer or Builder are deemed to have enhanced its performance. All Class racing is based upon the "Standard Shrimper".

The important word here is the “Standard Shrimper”. We don’t want to stand completely still but the Shrimper was never meant to be high tech.....

Rule 9 of the rules refers to our sails.

SAILS: These must be made as close as possible to the dimensions of the standard sail plan (see attached plan), but these dimensions are an absolute maximum and must not be exceeded. The Shrimper motif and correct number to be on both sides. Sail material to be of woven sailcloth with a *minimum* weight of 200gm/sq.m (equivalent to 6 UK oz or 4.75 US oz). All jibs must be roller-reefed and fitted to a luff foil, with the lower end attachment fixed to the standard length bowsprit end-band. The mainsail tack cringle must be attached to its gooseneck eye by a shackle or lashing of no more than 5cm (2"). All sail measurements must be in accordance with the ISAF Equipment rules of Sailing (including the Guide to Measurement).

So that is it, we Shrimper Owners would like to think we are all “Gentlemen, proper sportsmen”, doing everything fairly. We wish to keep our rules simple so that they remain self-policing. Many owners enjoy their racing in what is now an ever increasing class, but we need to play on a level playing field.

We will never, I suspect, return to the days of just one sail maker but we hope this guide leads to better uniformity. We will ask owners to return sails found to be oversized. Up to 3 inches smaller will be considered “as close as possible”.

REMEMBER

''FAST BUT FAIR''

www.shrimperowners.org

Attached please find:

- 1) The Critical Sail Plan showing the dimensions
- 2) Guidance in measuring a Shrimper Main and Jib
- 3) Measuring a Shrimper MAIN
- 4) Measuring a Shrimper JIB
- 5) Shrimper Class motif and number size information
- 6) SOA Sail measurement form (separate file)

All the attached documents have been approved by the National Hon. Sec. of the Shrimper Owners Association in conjunction with Select Yachts (Cornish Crabbers).....APRIL 2008

Cornish Shrimper

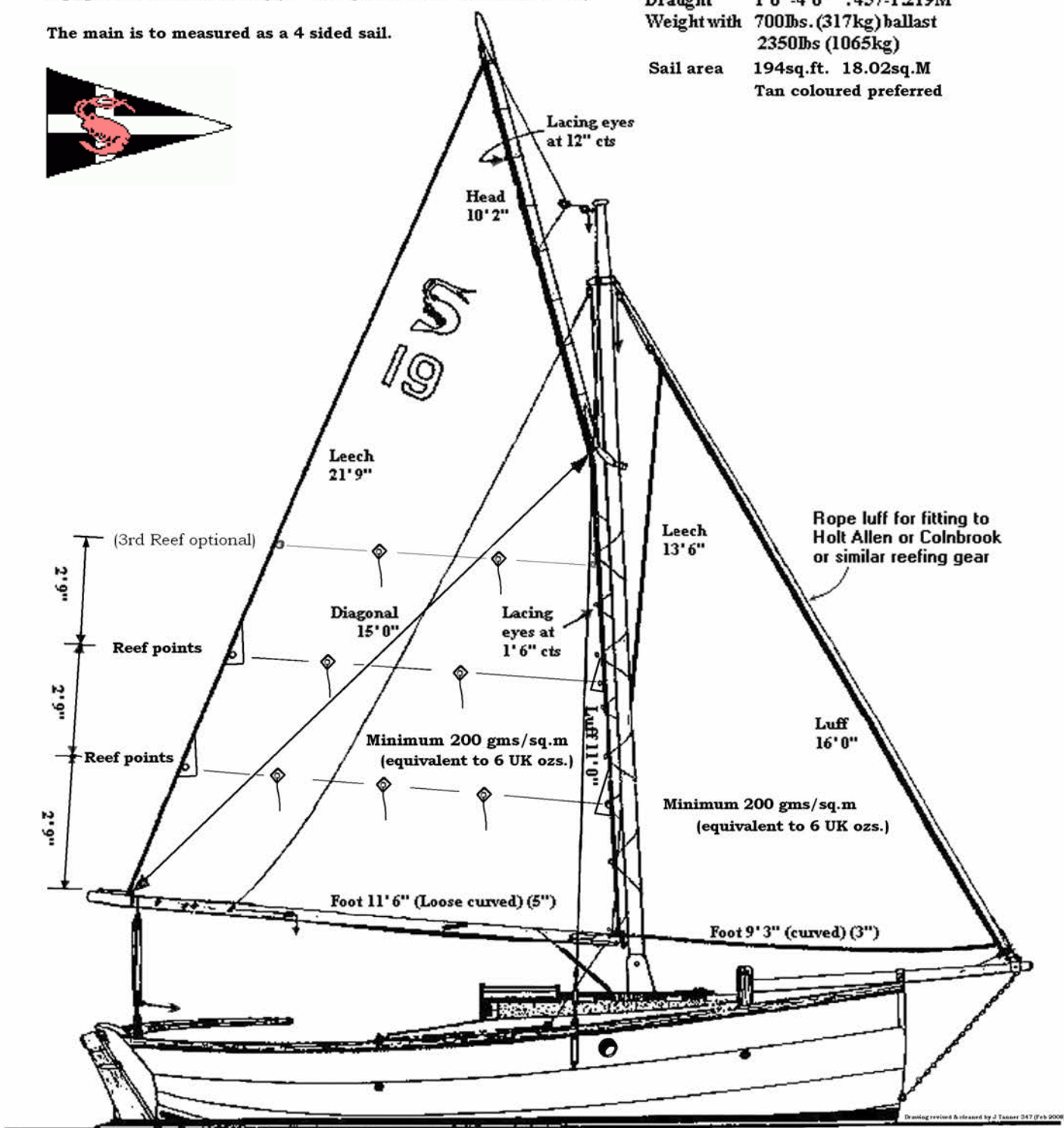
Critical sail plan dimensions

All sizes to be measured in accordance with the I.S.A.F. Equipment Rules of Sailing (including the Guide to Measurement)

The main is to be measured as a 4 sided sail.

Designed by Roger Dongray

| | | |
|-------------|-------------------------|-------------|
| Length O.D. | 19'3" | 5.867M |
| Length W.L. | 17'6" | 5.334M |
| Beam | 7'2" | 2.184M |
| Draught | 1'6"-4'0" | .457-1.219M |
| Weight with | 700lbs. (317kg) ballast | |
| | 2350lbs (1065kg) | |
| Sail area | 194sq.ft. 18.02sq.M | |
| | Tan coloured preferred | |



Drawing revised & released by J. Towner 047 (Feb 2008)

© 1978 Roger Dongray



Guidance in measuring a Shrimper Main & Jib.



Taken from – International Sailing Federation - Equipment Rules of Sailing 2005 – 2008

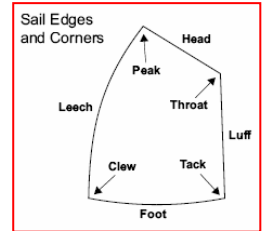
H5. SAIL MEASUREMENT (for Shrimpers)

H5.1 **Condition of Sail** The sail shall: be dry, not attached to spars or rigging,, **have just sufficient tension applied to remove wrinkles across the line of measurement being taken**, and only have one measurement taken at a time.

G3. SAIL CORNERS

G3.4 **Peak** The area where the **head** and **leach** meet.
G3.5 **Throat** The area where the **head** and **luff** meet.

RED = GAFF only



G7. PRIMARY SAIL DIMENSIONS (see H5 above) (The gaff is a 4 sided mainsail)

G7.2 **Leach Length** The distance between the **peak point** and the **clew point**.
G7.3 **Luff Length** The distance between the **throat point** and the **tack point**.
G7.9 **Diagonal** The distance between the **throat point** and the **clew point**.
G7.12 **Head Length** The distance between the **peak point** and the **throat point**.

G4. SAIL CORNER MEASUREMENT POINTS (includes details from Sub-section B for GAFF sails)

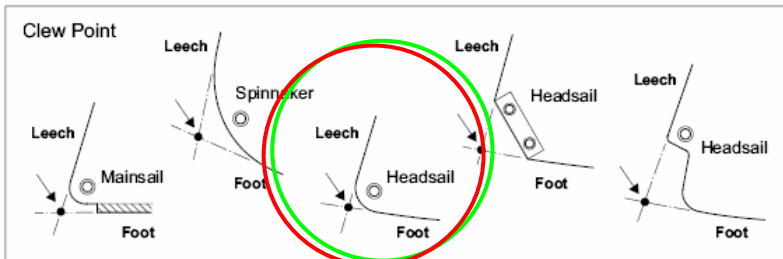
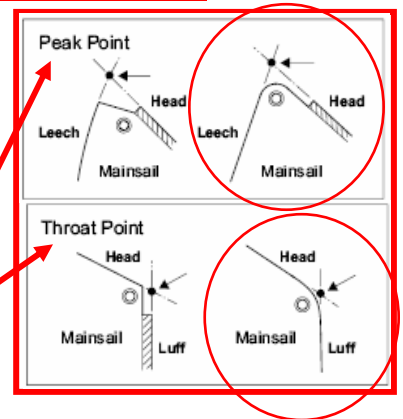
G4.1 **Clew Point** The intersection of the **foot** and the **leach**, each extended as necessary.

G4.2(b) Headsail **Head Point** The intersection of the **luff**, extended as necessary, and the line through the highest point of the sail, excluding attachments, at 90° to the **luff**.

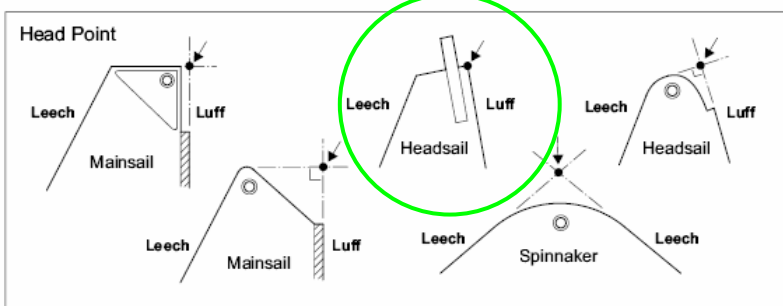
G4.3 **Tack Point** The intersection of the **foot** and **luff**, each extended as necessary.

G4.4 **Peak Point** The intersection of the **head** and **leach**, each extended as necessary.

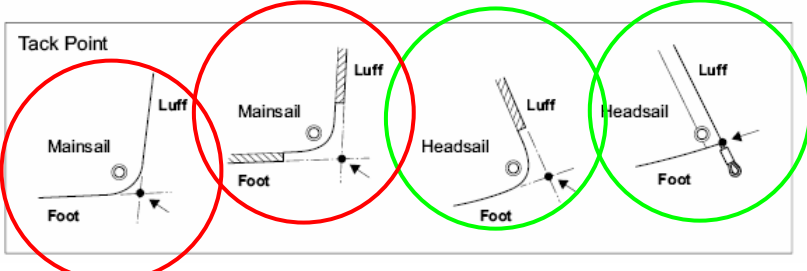
G4.5 **Throat Point** The intersection of the **head** and **luff**, each extended as necessary.



FOR MAINSAIL & HEADSAIL G4.1



FOR HEADSAIL ONLY G4.2



FOR MAINSAIL & HEADSAIL G4.3

The person measuring must ensure that they have the necessary authority to undertake the measurements. (This is to be a designated person/s within each SOA Region.)

When measuring a new sail, the measurer is acting on behalf of the owner and should, within the limits of the applicable rules, endeavor to safeguard the interests of that owner. No sail should be certified until its full and complete compliance with the applicable rules has been established.


Equipment required to measure sails:

- ✓ Steel rule: 7.5mtr retractable.
- ✓ Steel rule: 3mtr retractable.
- ✓ 2 Straight edges / A4 paper or card.
- ✓ Black permanent marker pen (to sign starboard tack, when sail measures) Signature and date.
- ✓ Excel spread sheet as shown below; with all class sail dimensions and column for individual owners – record dimensions, make, pass / fail and date. (Just use inches, to help with measuring).

B11. In the absence of any specific national or class requirements, the measurer should **certify**, by **signing and dating**, the sail in the **tack** on mainsails and headsails.
(ISAF -Guide to sail measurement 2001-2004)

| SOA Class Rules Spec's in feet & inches | | | | MAINSAIL | | | | | | | JIB | | | | | | |
|---|-------|-----------|--------------|----------------|----------------|----------------|----------------|----------------|------------|--------------|--------------|--------------|----------------|----------------|---------------|---------------|-------|
| No. | Owner | Sailmaker | Colour T-C-V | Leech | Diagona | Head | Luff | Foot | Curve drop | facing eyes | reef points | Luff | Leech | Foot | Curve drop | Date measured | Notes |
| | | | | 21 - 9 261" | 15 - 0 180" | 10 - 2 122" | 11 - 0 132" | 11 - 6 138" | 5" | 1 - 6 18" | 1 - 0 12" | 33" & 33" | 16 - 0 192" | 13 - 6 162" | 9 - 3 111" | 3" | |
| | | | | | | | | | | | | | | | | | |

Where the line of the extension of the edge is obvious, it should be used. Placing a straight edge along an edge can often help to give a true extension line continuing any curve.



Note the extensions- Where they cross, is the **measuring point**, for the peak on our gaff main. (A 4 sided sail)

Include any bolt rope, which must be extended to the measuring point.



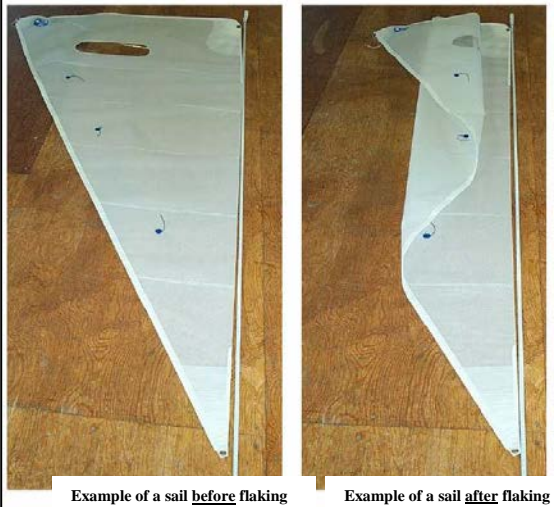
Flaking the sail gives a good view on the intensions of the sailmaker to create shape. Use this method to measure the foot drop.

The diagonal is often queried – this is measured flat - without excessive pulling (see H5.1 above).

SOA measurers will consider sail measurements up to about 3 inches short, as being as close as possible.

Specific points relative to Shrimpers have been taken from the full ISAF document, which can be downloaded from <http://www.sailing.org/technical/ERS2005-2008.pdf> (Or its dated equivalent).

Shrimper sail plan & other advice is available at www.shrimperowners.org



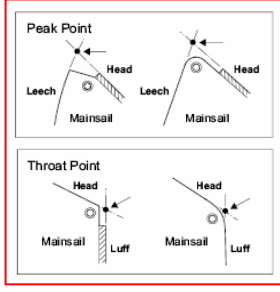
Measuring a Shrimper MAIN



The main must be measured as a 4 sided sail, see ISAF measuring guidelines.

A FIXED BOLT rope is required. It must NOT stretch.
No battens or windows permitted.

If it's impossible to identify the THROAT POINT; measure both tack and peak points towards the throat to ascertain the position. Both must be within the dimensions (no gap).



Peak measuring point

Throat measuring point.

Tack measuring point

Clew measuring point

Lacing eyes on head - 12" centres.

Lacing eyes on leach - 18" centres.

It may help to flake the bottom of the sail to measure the foot roach / curve drop.

Leach 21' 9"

10' 2"

11'

Luff

Reef No.3 (optional)

Minimum of 2 lacing eyes

Reef No.2

Minimum of 2 lacing eyes

15' Diagonal

Reef No. 1

Minimum of 3 lacing eyes

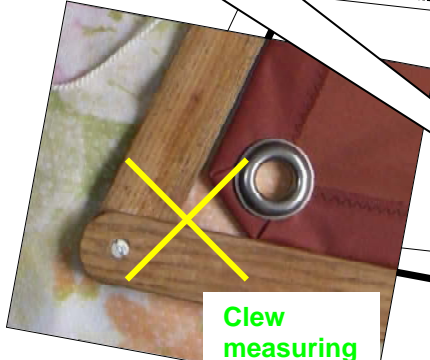
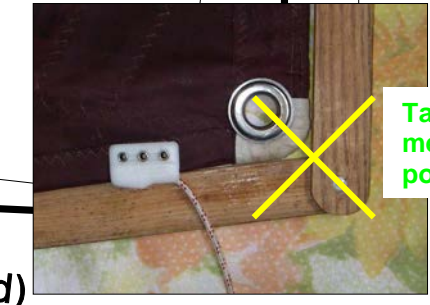
2' 9"

2' 9"

2' 9"

0' 5"

Foot 11' 6" (loose curved)



Measuring a Shrimper JIB



Take a line square / at right angles to the luff at the highest point of the sail.

Use the square corner of a sheet of paper to help.

Note –

Maximum width at peak of sail – 2 inches.
Beware if larger than this.

No battens or windows permitted.

A thinner bolt rope is required for SailSpar foil.

Peak measuring point

13' 6"

Leach

16'

Luff

It may help to flake the bottom of the sail to measure the foot roach or curve drop.

Foot (curved)

0' 3"

9' 3"

Clew measuring point

Tack measuring point

Shrimper class motif & number size information.



Numbers measure **12 inches x 8 inches**. Standard font. Shrimp & numbers, **white** in colour on a tan sail.

Numbers are **square to the leach** – so slope down, moving towards the luff.

Gap of about 4-6 inches between top of lettering and start / tail of the shrimp.

Shrimps' body is **parallel** with the numbers. Size of shrimp is about **12 inches x 14 inches**.

Base of the numbers are about **7-8 feet from the peak** – on **starboard** side. (depending on panel join)

Shrimper class motif higher on starboard side.

Shrimp / motif is **above** and **centre** of numbers.

**Shrimp drawn from Rockall sail
No. 569 (Photo above).
Shrimp logo available as DFX file.**

