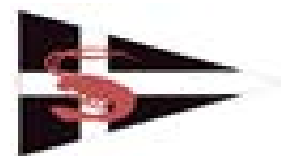


The Shrimper Owners Association - Poole



CORNISH SHRIMPER SAIL MEASURING GUIDELINES 2014



REMEMBER

"FAST BUT FAIR"

www.shrimperowners.org

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. 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 our Concept and Ethos sections from our One-Design Class Rules. Remember it's a cruising boat we like to race – not a racing boat!

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".

These guidelines consist of:

- | | | |
|--|---------------------------|-----------|
| 1) SOA-Poole Sail Measuring Guidelines 2014 | Version V2 Jan 2014 | (2 pages) |
| 2) Measuring a Shrimper MAIN | Main with pictures - Mk5 | (1 page) |
| 3) Measuring a Shrimper JIB | Jib with pictures - Mk5 | (1 page) |
| 4) Shrimper Class motif and sail number size information | Logo & No. size info - V5 | |
| 5) SOA Sail Recording measurement form (separate Excel file) | | |



Guidance in measuring a Shrimper Main & Jib v2



Reference – International Sailing Federation - Equipment Rules of Sailing 2013 – 2016

H5. SAIL MEASUREMENT (for Shrimpers)

H5.1

Condition of Sail The sail shall: (a) be dry, (b) not attached to spars or rigging, (e) **have just sufficient tension applied to remove wrinkles across the line of measurement being taken**, (f) have one measurement taken at a time.

G3. SAIL CORNERS

G3.4

Peak

The region where the **head** and **leach** meet.

G3.5

Throat

The region where the **head** and **luff** meet.

RED = GAFF only

G7. PRIMARY SAIL DIMENSIONS (see H5 above) ((Subsection B)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

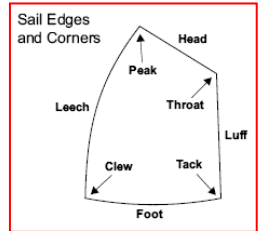
Diagonal

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

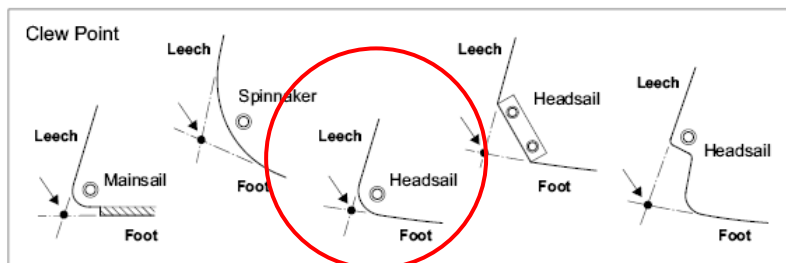
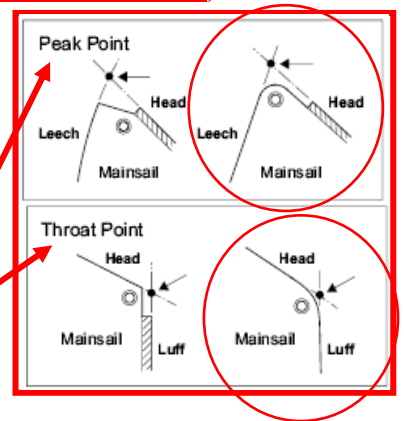
Peak Point

The intersection of the **head** and **leach**, each extended as necessary.

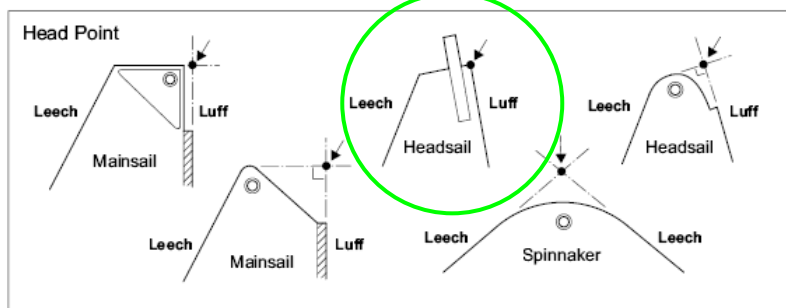
G4.5

Throat Point

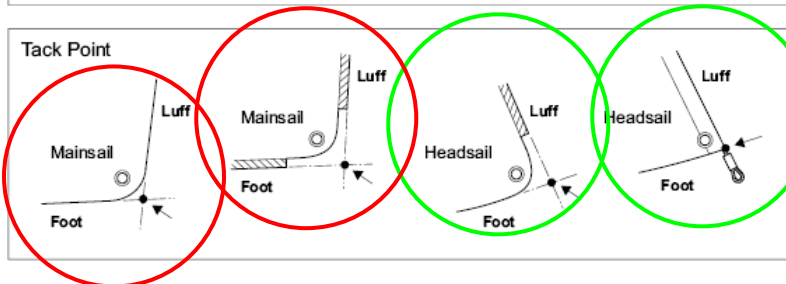
The intersection of the **head** and **luff**, each extended as necessary.



FOR THE – **CLEW POINT**
MAINSAIL & HEADSAIL
G4.1



FOR THE – **HEAD POINT**
HEADSAIL ONLY
G4.2



FOR THE – **TACK POINT**
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, it's easier 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-W ?	Date measured	Signed off Y-N	Leech	Diagonal	Head	Luff	Foot	Curve drop	lacing eyes		reef points		Sailmaker	Colour T-C-W ?	Date measured	Signed off Y-N	Notes	
						(+0 / -2)	(+0 / -2)	(+0 / -2)	(+0 / -2)	(+0 / -2)	5"	Leach straight?	Luff	Gaff	No1 & No2						Luff
						21 - 9 261	15 - 0 180	10 - 2 122	11 - 0 132	11 - 6 138	5"	Leach straight?	1 - 6 18	1 - 0 12	33" & 33"						

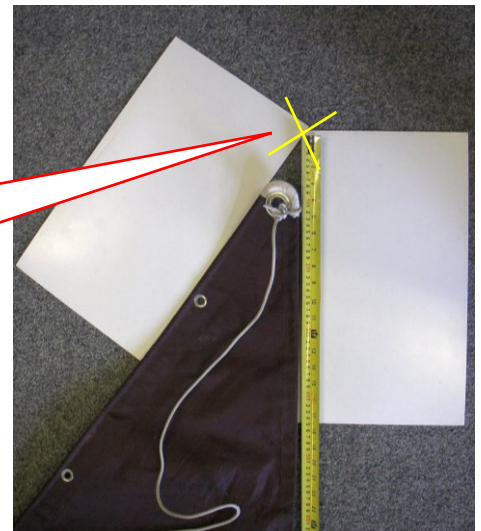
Table 1

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](#).



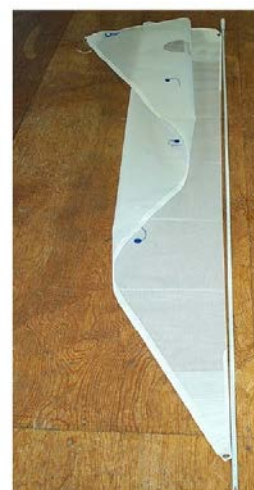
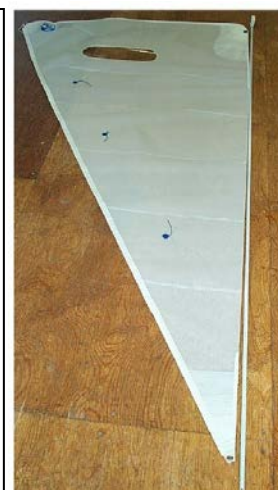
Flaking the sail gives a good view on the intensions of the sailmaker to create shape. **Use this method to measure each sail dimension.**

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

SOA measurers will consider sail measurements up to 2 inches short, as being as close as possible. (see spreadsheet Table 1 above, for tolerances,)

Specific points relative to Shrimpers have been taken from the full ISAF document, which can be downloaded from <http://www.sailing.org/documents/equipmentrules/index.php>

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



Example of a sail **before** flaking

Example of a sail **after** flaking

Measuring a Shrimper JIB

Note:-
Maximum width at
HEAD of sail - 2 inches.
Beware if larger than
this.

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

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

HEAD
measuring
point


No battens permitted.
WINDOW AREA (G8.10) – Maximum of 2 -
Largest dimension no greater than 9 ins.

A thinner bolt rope is required for SailSpar foil.

13' 6"

Leach

16'

Flake the bottom of the sail to measure
the foot (*C-T is a straight line*) roach or
curve drop, at mid position. 

CLEW
measuring
Point (C)

Foot (curved)

0' 3"

TACK
measuring
Point (T)

9' 3"

Measuring a Shrimper MAIN



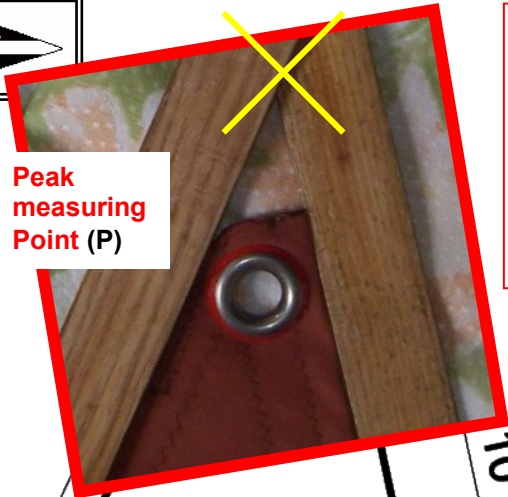
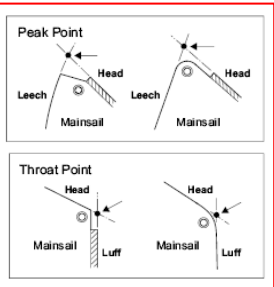
The main must be measured as a 4 sided sail, see ISAF measuring guidelines.

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

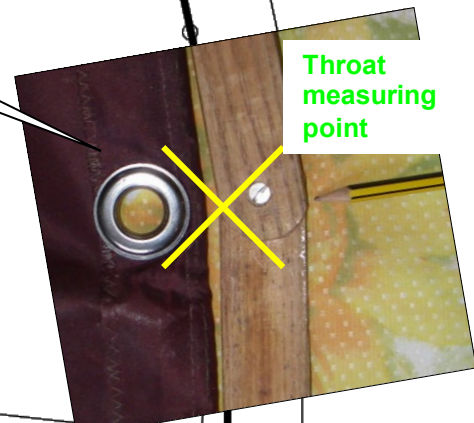
If it's impossible to identify the THOAT POINT; measure both tack and peak points towards the throat to ascertain the position. Both must be within the dimensions (no gap).

Reefing point at the mid point of foot and square straight line

Flake the bottom of the sail to measure the foot (C-T is a straight line) roach / curve drop, at mid position.



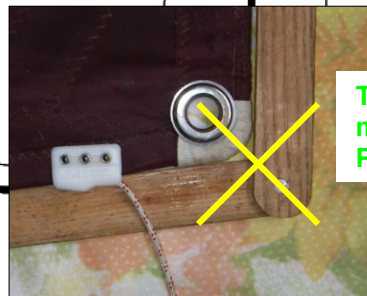
Peak measuring Point (P)



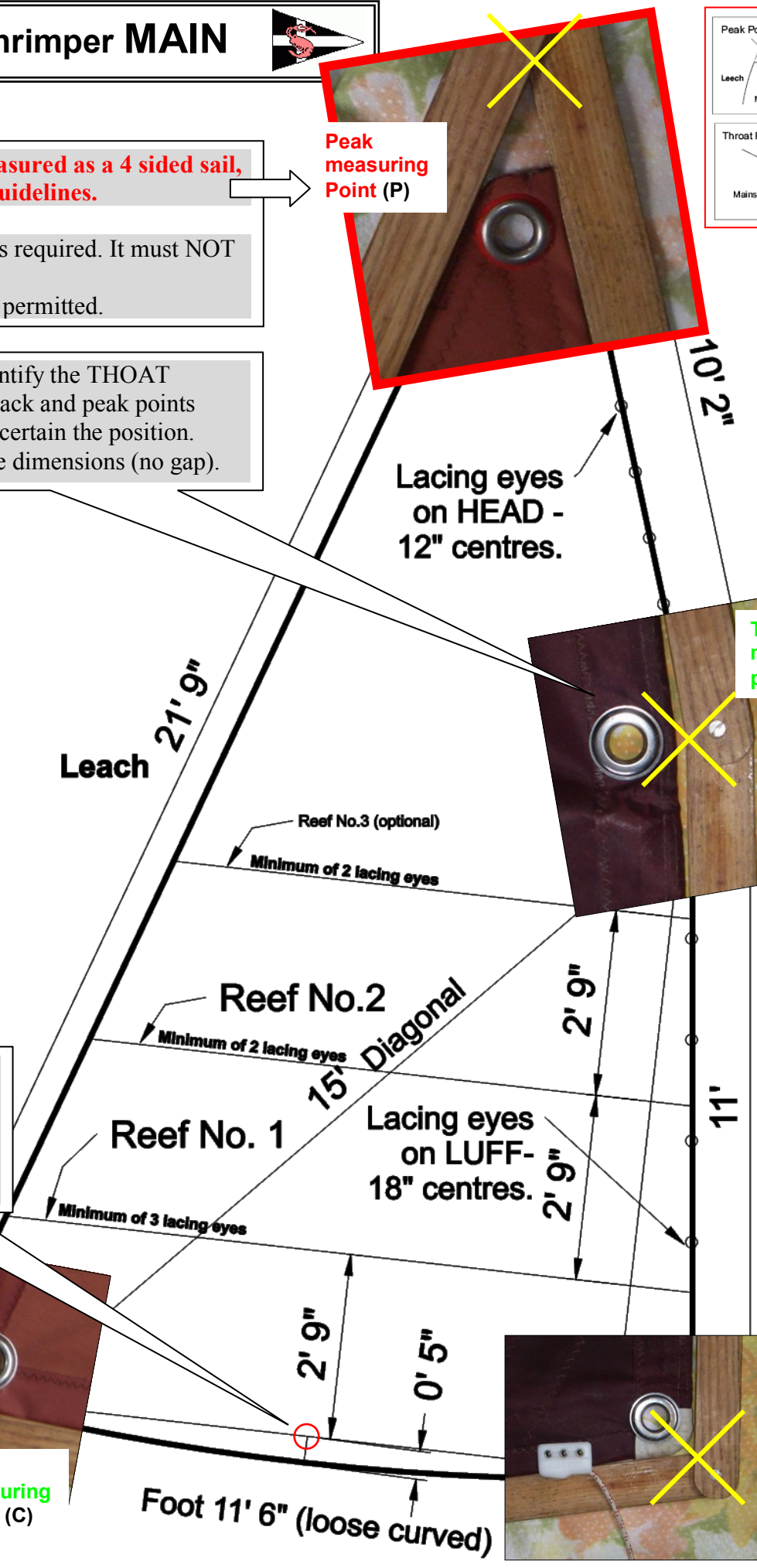
Throat measuring point



Clew measuring Point (C)



Tack measuring Point (T)



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. (Depending on panel join)

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** compared to port side.

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

**Shrimp drawn from Rockall sail
No. 569 (Photo right).**

