

The Shrimper Owners Association



CORNISH SHRIMPER 19 SAIL MEASURING GUIDELINES 2020



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- Sail Measuring Guidelines 2020 | Version V3 Feb 2020 | (2 pages) |
| 2) Measuring a Shrimper MAIN | Main with pictures – V6 | (1 page) |
| 3) Measuring a Shrimper JIB | Jib with pictures – V6 | (1 page) |
| 4) Class motif and sail number size information | Logo & No. size info - V5 | (1 page) |



Guidance in measuring a Shrimper Main & Jib



Reference – World Sailing - Equipment Rules of Sailing 2021 – 2024

V3

H5. SAIL MEASUREMENT (for Shrimpers)

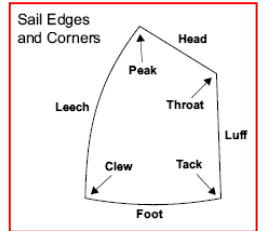
H5.1 Condition of Sail The sail shall: (a) be dry, (b) not attached to spars or rigging, (c) have just sufficient tension applied to remove wrinkles across the line of measurement being taken, (d) have one measurement taken at a time.

G3. SAIL CORNERS (Subsection B)

G3.4 Peak The region where the head and leech 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)

G7.1 Foot Length The distance between the clew point and the tack point.

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.

G7.10(a) Clew Diagonal The distance between the clew point and the throat point.

G7.13 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)

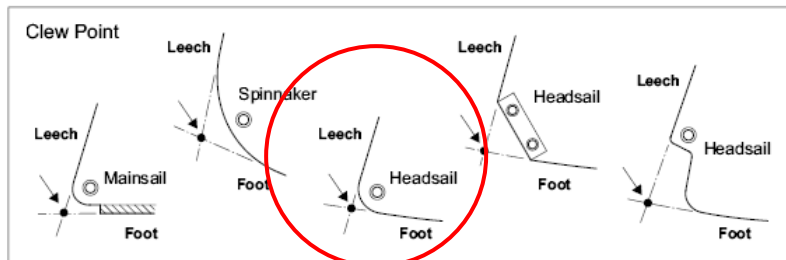
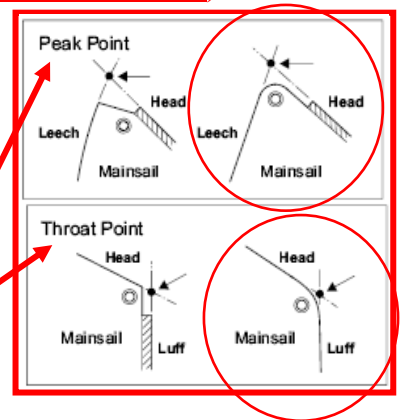
G4.1 Clew Point The intersection of the foot and the leech, each extended as necessary.

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

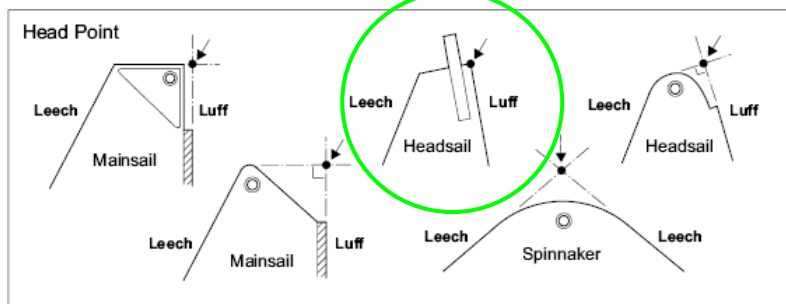
G4.3 Tack Point The intersection of the foot and the luff, each extended as necessary.

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

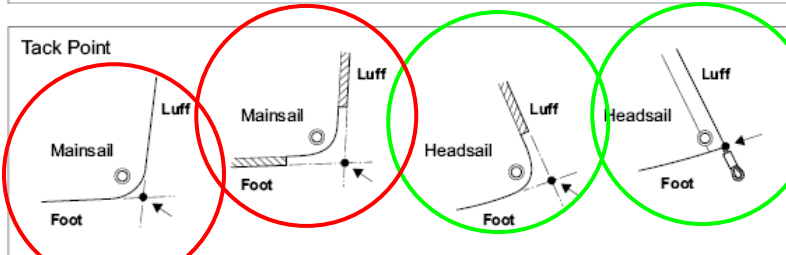
G4.5 Throat Point The intersection of the head and luff, each extended as necessary.



FOR THE – CLEW POINT
MAINSAIL & HEADSAIL
G4.1



FOR THE – HEAD POINT
HEADSAIL ONLY
G4.2(b)



FOR THE – TACK POINT
MAINSAIL & HEADSAIL
G4.3

The person measuring must ensure that they have the necessary authority to undertake the measurements. (A recognised measurer or 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 each 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!).

Note- 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.
(Previous Guide to sail measurement 2001-2004)

SOA Class Rules Spec's in feet & inches					MAINSAIL								JIB				Notes		
No.	Owner	Sailmaker	Colour T-C-W ?	Date measured	Leech	Diagonal	Head	Luff	Foot	Curve drop	lacing eyes	reef points	Luff	Leech	Foot	Curve drop			
				Signed off: Y-N	21 - 9 261 (+0 / -2)	15 - 0 180 (+0 / -2)	10 - 2 122 (+0 / -2)	11 - 0 132 (+0 / -2)	11 - 6 138 (+0 / -2)	5"	Leech straight?	1 - 6 18	1 - 0 12	33" & 33"	16 - 0 192 (+0 / -2)	13 - 6 162 (+0 / -2)	9 - 3 111 (+0 / -2)	3"	

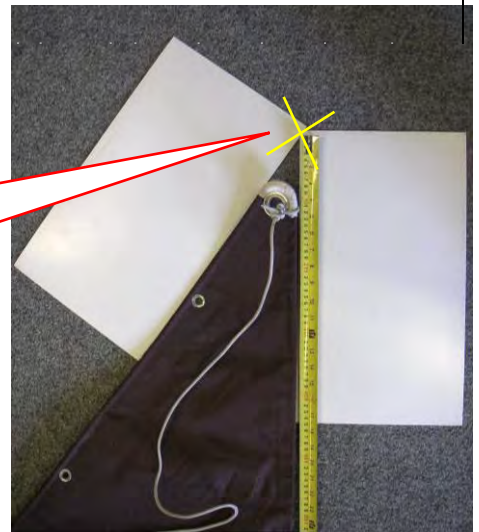
Table 1

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. Create a flake either side of the **Clew Diagonal**)

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 **ERS** document, which can be downloaded from

<http://www.sailing.org/documents/equipmentrules/index.php>

Shrimper 19 Class Rules inc. sail plan is available at www.shrimperowners.org



Example of a sail **before** flaking

Example of a sail **after** flaking

Measuring a Shrimper JIB



V6

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 (**head**) of the sail, excluding attachments. Use the square corner of a sheet of paper or a try square to help.

HEAD measuring point

TELLTAIL WINDOW AREA (G.8.10) – Maximum of 2 - Largest dimension no greater than 9 inches.

VISIBILITY WINDOW AREA (G.8.10) – Maximum of 1 – Largest diagonal dimension no greater than 48 inches. It must be 4 sided; with the longer sides no greater than 18 inches apart.

13' 6"

Leach

16'

Flake the bottom of the sail to measure the **foot length G.7.1 (C)-(T)**, which is a straight line. The roach or curve drop is measured at the **mid foot point**.

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 World Sailing measuring guidelines.

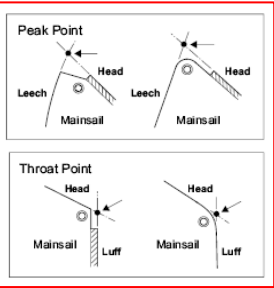
A FIXED BOLT rope is required. It must be pre stretched.

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).

VISIBILITY WINDOW AREA (G.8.10)
Maximum of 1 – Largest diagonal dimension no greater than 54 inches. It must be 4 sided; with longer sides no greater than 18 inches apart.

Reefing points are measured at the mid position along the foot and square to it. (C)-(T) is a straight line) ○

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



Peak measuring Point (P)

V6

Lacing eyes on HEAD - 12" centres.

Throat measuring point

Leach 27'9"

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

Lacing eyes on LUFF - 18" centres.

2'9"

11'

2'9"

0'5"

Clew measuring Point (C)

Tack measuring Point (T)

Shrimper class motif & number size information.

V5



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)

Shrimp's 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).**

