

SC27 Sail and Equipment Measurement

Boat Name:				
Owner / Phone				
Hull Number: Sail Number				
	<u>LIMIT</u>	<u>MEASUREMENT</u>	<u>Tolerance Factor</u> %* see note	
Spinnaker Pole Length	10.9 feet (10' 10-13/16")		NA	<u>PASS / FAIL</u>
Mainsail Hoist	28.2 feet (28' 2 6/16")			<u>PASS / FAIL</u>
Mainsail Foot	8.7 feet (8' 8 6/16")			<u>PASS / FAIL</u>
Mainsail Three-Quarter Width	3.7 feet (3' 8 6/16")		NA	<u>PASS / FAIL</u>
Mainsail Half Width	6.3 feet (6' 3 10/16")		NA	<u>PASS / FAIL</u>
Jib Luff Perpendicular	16.9 feet (16' 10 13/16")			<u>PASS / FAIL</u>
Spinnaker Luff	32.8 feet (32' 9 10/16")			<u>PASS / FAIL</u>
Spinnaker Luff	32.8 feet			<u>PASS / FAIL</u>
Spinnaker Half Width	19.6 feet (19' 7 3/16")			<u>PASS / FAIL</u>
Spinnaker Foot Width	19.6 feet			<u>PASS / FAIL</u>

	<u>Printed Name</u>	<u>Date</u>	<u>Signature See note:</u>
<u>Owner</u> <u>(or representative)</u>			
<u>Measurer</u>			
<u>Measurer Helper</u>			
<u>Time</u>			
<u>Location</u>			
<p><u>NOTE: as signature of measure and helper, signing certifies that you measured the sails according to the rules provided to the best of your ability, and that you did not participate or measure sails or equipment that you own, designed, built or have a material interest. Under RRS78, it is the owner's responsibility to sail in compliance with the measurements on this page. Class Measurer or Class President must approve if tolerance factor is applied</u></p>			

SC27 Sail Measurement Instructions:

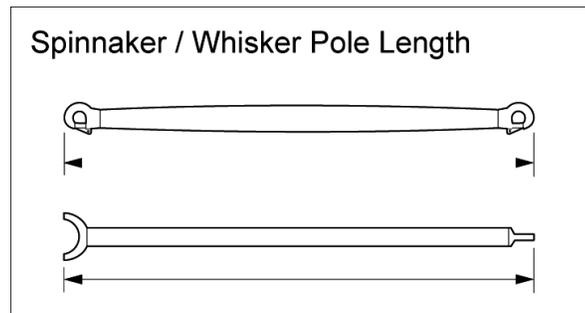
Measurement Equipment:

An unmodified tape measure constructed of steel or fiberglass shall be used to measure all dimensions. Temperature shall be taken when the sail and tape are between 65 F and 75 F (18 to 24 degrees Celsius), and preferably not in the direct sunshine.

Equipment Measurement

Spinnaker Pole

The only measurement required in the spinnaker pole is overall length. Measure to the outer ends of the fittings, and ignore the point at which the spinnaker guy will bear. The spinnaker pole is measured separated from the mast and the mast fitting. The spinnaker pole shall be no longer than 10.9 feet (10' 10-13/16")



SAIL MEASUREMENT

Conditions of Sail

The sail shall be dry.

Leech cords shall be completely released for measurement

not be attached to spars or rigging

have all battens removed

have pockets of any type flattened out

have just sufficient tension applied to remove wrinkles across the line of the measurement being taken, and

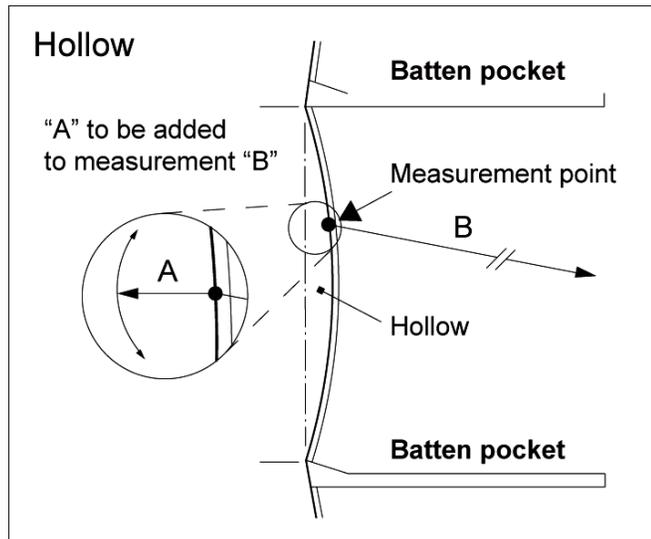
have only one measurement taken at a time.

Hollows in Sail Edges

Where there is a sail edge hollow and a measurement point falls in the hollow:

- between adjacent batten pockets
- between the aft head point and adjacent batten pocket
- between the clew point and adjacent batten pocket
- between the tack point and adjacent batten pocket at an attachment.

The sail shall be flattened out in the area of the sail edge, the sail edge hollow shall be bridged by a straight line and the shortest distance from the measurement point to the straight line shall be measured. This distance shall be added to the measurement being taken.

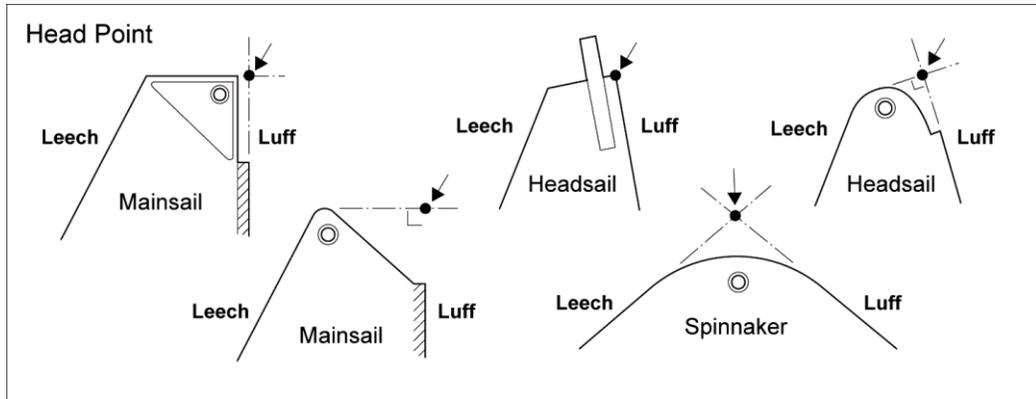


Determination of Sail Corners Point:

A piece of heavy paper may be taped to the sail to mark the projected point of the sail corner to aid in measurement.

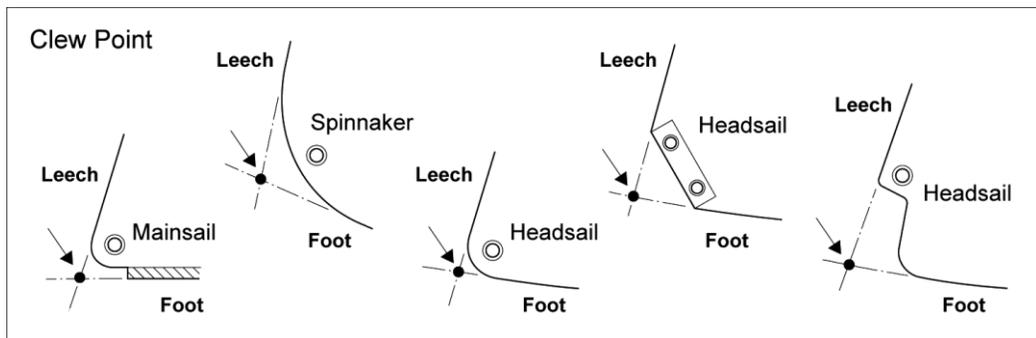
Locating the Head Point:

The head shall be taken as the highest point of the sail projected perpendicular to the luff or its extension.



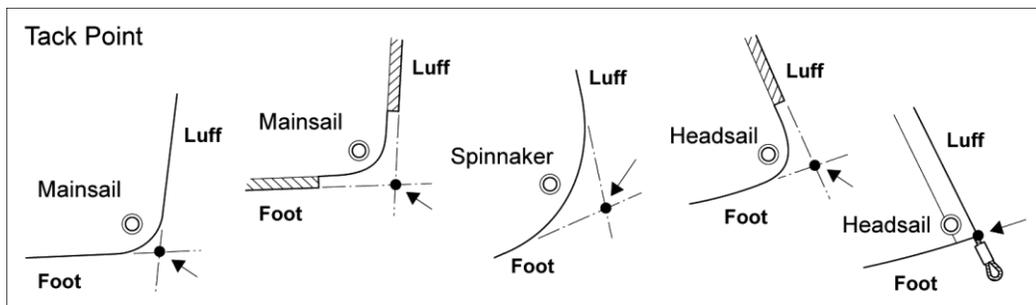
Locating the Clew Point:

The clew shall be taken as the aftermost part of the sail projected to the foot or its extension:



Locating the Tack Point:

The Tack shall be taken as the foremost part of the sail projected to the foot and or its extension:



Mainsail measurement:

First, using the diagrams above to guide you, determine the projected Clew, projected Tack, and projected Head points. Clew, Tack and Head points always mean the projected point using the diagrams.

Fold the projected clew to the projected head and equally tensioning the two halves to the leech so formed. The half leech point is the intersection of the fold and the leech.

The three-quarter points are found similarly by folding the projected head point to the half leech point. The $\frac{3}{4}$ point is the intersection of the fold and the leech.

Mainsail Girths: $\frac{1}{2}$ and $\frac{3}{4}$

The mainsail girths shall be measured from the leech points, as defined, to the nearest point of the fore edge of the sail including their bolt rope. The points on the leech from which the cross measurements are taken shall be determined bridging any hollows in the leech with a straight lines. Hollows distances shall be added to the measured sail cross width. This means you will need to swing the distance across the hollow similar to swinging the distance from leech point to luff to determine the shortest distance, and add that to the mainsail cloth measurement.

Mainsail Luff:

The sail shall be flaked, tension applied to remove sail cloth wrinkles, and the distance between the projected head point and the projected tack point measured.

Mainsail Foot:

The sail shall be flaked, tension applied to remove sail cloth wrinkles, and the distance between the projected tack and the projected clew point measured.

Mainsail headboard:

The mainsail headboard is not measured per the SC27 constitution.

Jib Measurement

First, using the diagrams above to guide you, determine the projected Clew, projected Tack, and projected Head points. Clew, Tack and Head points always mean the projected point using the diagrams.

A tolerance factor of not more than 2% may be allowed at the discretion of the Class Measurer for older sails (4 years or older) for the jib measurements. Only **Actual** dimensions shall be recorded.

Jib Perpendicular:

The sail shall be flaked, tension applied to remove sail cloth wrinkles, and the shortest distance between the projected clew and the extreme edge of the luff shall be measured. Record the measurement.

Jib Luff:

The Jib Luff is not measured per the SC27 constitution.

Spinnaker Measurement:

First, using the diagrams above to guide you, determine each of the two projected Clews points, and projected Head point. Clew points and Head point always mean the projected point using the diagrams.

A tolerance factor of not more than 2% may be allowed at the discretion of the Class Measurer for older sails (4 years or older) for the spinnaker measurements. Additional tolerance factor may be allowed at the discretion of the Class Measurer for very old sails in order to support the SC27 Nationals Objectives to promote class participation. Only **Actual** dimensions shall be recorded.

Spinnaker Luff:

The sail shall be flaked, tension applied to remove sail cloth wrinkles, and the distance between the projected head point and the projected clew point measured. Perform the measurement for each luff. Record the measurements.

Spinnaker Foot:

The sail shall be flaked, tension applied to remove sail cloth wrinkles, and the distance between the projected clew points measured. Record the measurement.

Spinnaker Mid Girth:

Fold the projected clew to the projected head and equally tensioning the two halves to the leech so formed. The half leech point is the intersection of the fold and the leech. Perform this for both spinnaker luffs.

The sail shall be flaked, tension applied to remove sail cloth wrinkles, and the distance between the two mid-girth points measured. Record the measurement.