



INHOUSE CLUB YTC SAIL MEASUREMENT CERTIFICATE ISS:4

Date: _____

Measurer Name: _____

Boat Name: _____

Measurer Signature: _____

Sail Number: _____

PLEASE E-mail your YTC certificate <https://rorcrating.com/ryaytc>

and Race Declaration Form <https://colneyachtclub.org.uk/cyc-entry-form/> to "Colne Yacht Club" waterside@colneyachtclub.org.uk and cc simonfarren@hotmail.com (Compiles handicap start list)
(Note: D.Chivers or S.Farren are RYA Measurers at time of publication **small fees apply**)

Largest Genoa and Spinnaker to be Measured (All Dims in m) Serial Numbers Optional

WE CAN DO THE AREA CALCULATIONS FOR YOU

$$\text{Mainsail Area} = (P/8) * (2.04 * E + 3 * MHW + 1.5 * MTW + MUW)$$

Mainsail Make/ Manufacture Date	Unique Serial No	Mainsail Luff MAST DISTANCE(P)	Boom Outer Point Distance (E)	MHW (1/2 leach point width)	MTW (3/4 Leach width)	MUW (7/8 Leach width)	Main Area checker (m2)

$$\text{Headsail Area} = 0.0625 * HLU * (4 * HLP + 6 * HHW + 3 * HTW + 2 * HUW + 0.09)$$

Headsail Make / Manufacture date	Unique Serial No	HLU (Headsail Luff)	HLP (Luff Perpendicular)	HHW (1/2 Leach Width)	HTW (3/4 Leach width)	HUW (7/8 Leach width)	Genoa Area checker (m2)

$$\text{Spinnaker Area} = ((SLU + SLE)/2) * ((SFL + (4 * SHW))/5) * 0.83$$

Spinnaker Make / Manufacture Date	Unique Serial No	Spinnaker SLU Luff	Spinnaker SLE Leach	Spinnaker SFL (Foot)	Spinnaker SHW (Half width 50% of SLU/SLE)	Spi Area checker (m2)

Irc links to sail measurement Guide

<https://ircrating.org/wp-content/uploads/2019/01/simplified-meas-mainsail-180410.pdf>

<https://ircrating.org/wp-content/uploads/2019/01/simplified-meas-headsail-180410.pdf>

<https://ircrating.org/wp-content/uploads/2019/01/simplified-meas-spinnaker-180410.pdf>

For everyone's info 3 very good ORC sail measurement videos (similar to YTC/IRC requirements)

Headsail, Mainsail, spinnaker.

https://youtu.be/8dH0AXlxNfU?si=Nf60yS_zyROpt6td

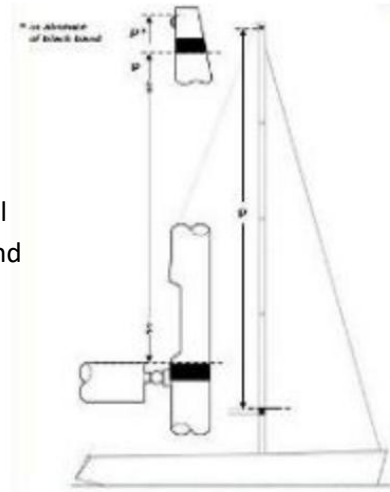
https://youtu.be/A49sk_OpCoQ?si=yAqNG-jMgYogFUbs

https://youtu.be/JIt5YqBuhY?si=IF4_34BXnYp9KeAw

Appendix A Sail Measurement Definitions:

P & E are Rig measurements, (P) easily done with a Tape measure Tied to mainsail Halyard and pulled Taught, **(E)** Using Tape measure along Boom to Aft edge or Band

- P** Maximum mainsail hoist measured on the mast as the distance between the **mainsail upper limit mark** and the top of the boom.
- E** Mainsail **outer point distance** measured on the boom as the distance between the **mainsail outer point** and the aft edge of the mast **spar**.



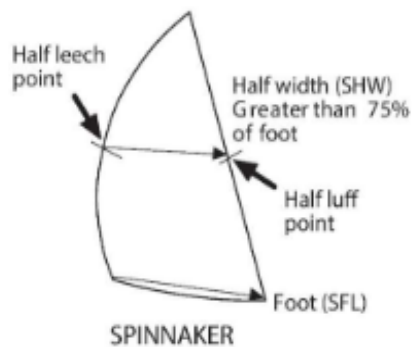
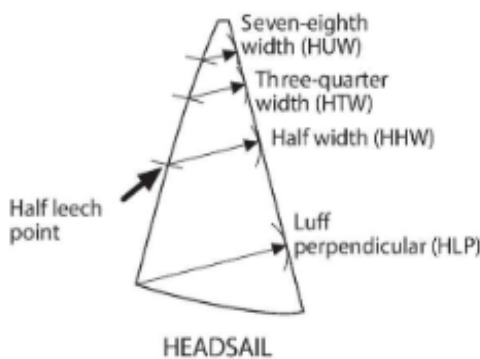
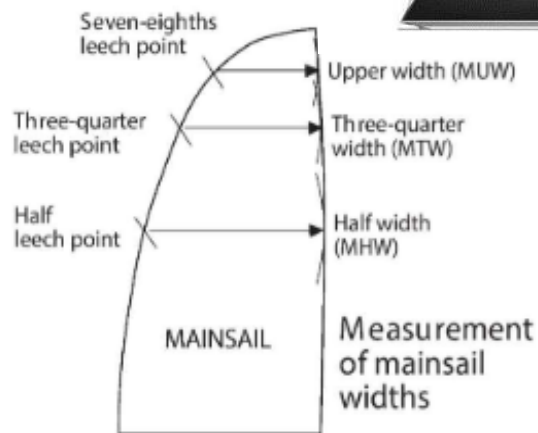
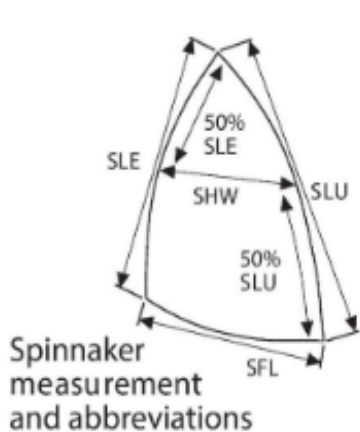
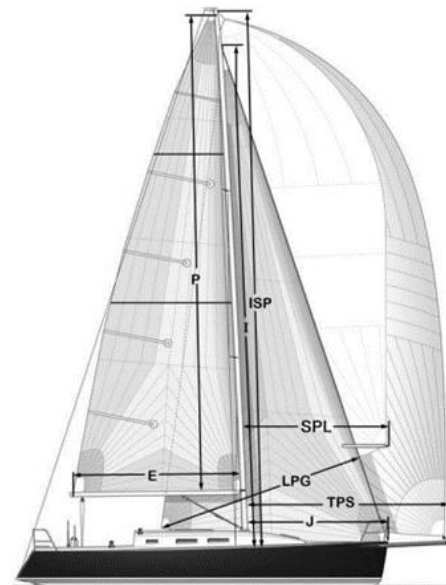
APPENDIX A – SAIL AREA CALCULATIONS

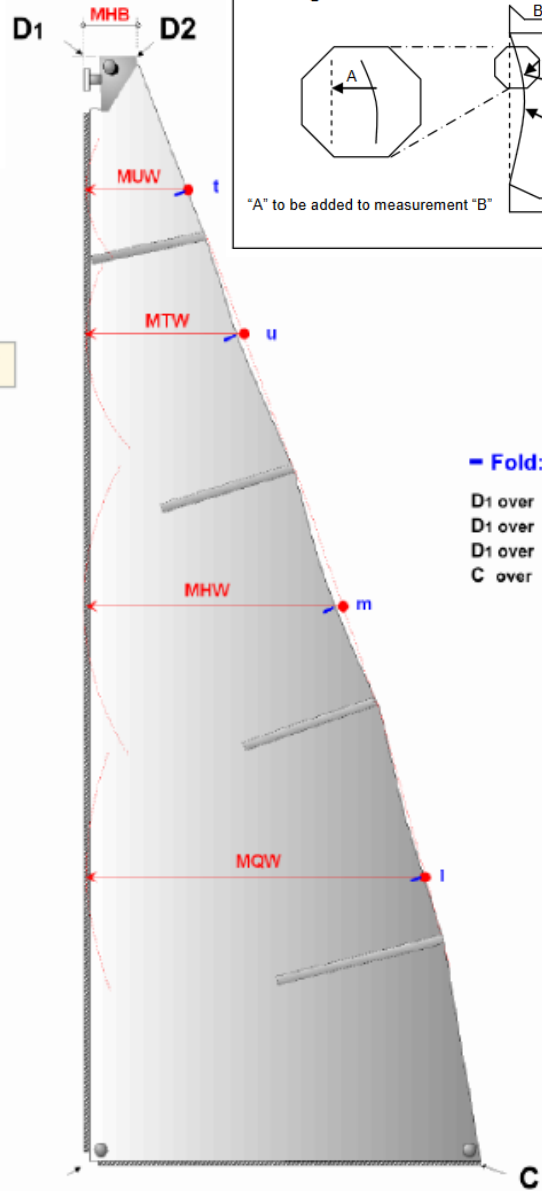
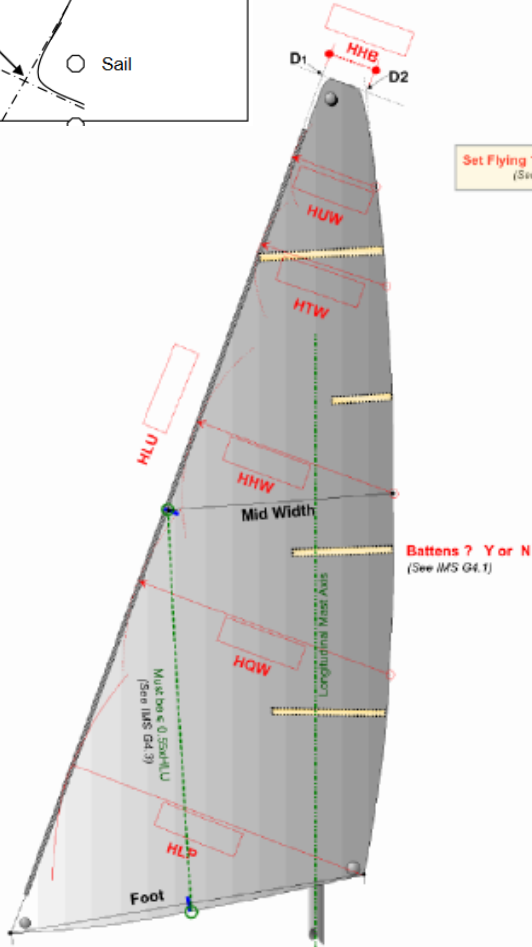
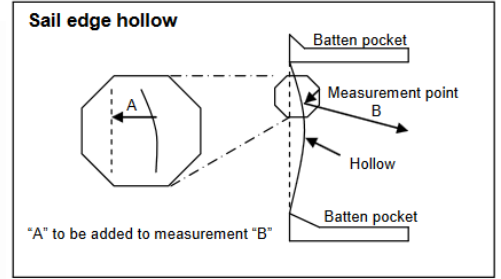
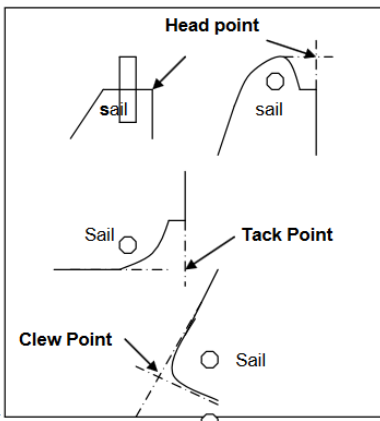
Mainsail Area = $(P/8) * (2.04 * E + 3 * MHW + 1.5 * MTW + MUW)$

Where **P** is the **Mainsail Luff Mast Distance** – See Equipment Rules of
E is the **Boom Outer Point Distance** – See Equipment Rules of

Headsail Area = $0.0625 * HLU * (4 * HLP + 6 * HHW + 3 * HTW + 2 * HUW + 0.83 * SHW)$
 Where HLU is the Headsail Luff Length

Spinnaker Area = $((SLU + SLE) / 2) * ((SFL + (4 * SHW)) / 5) * 0.83$



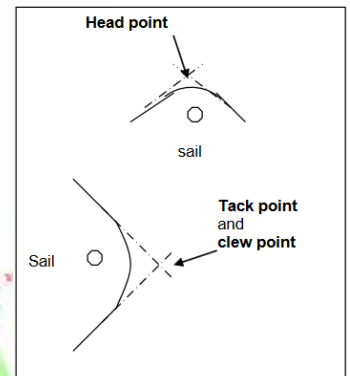
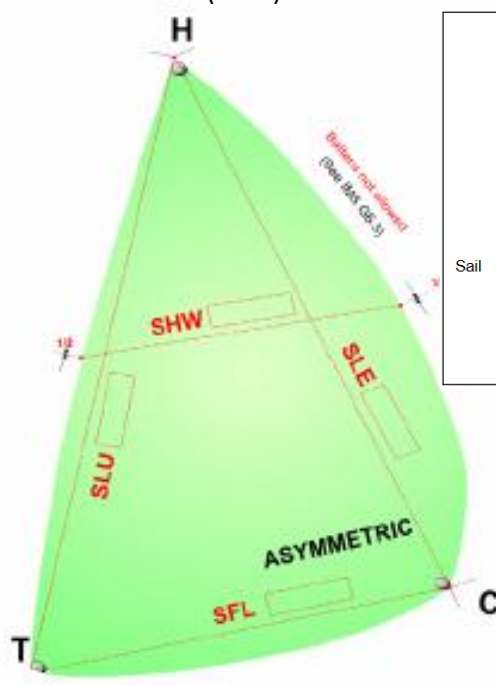
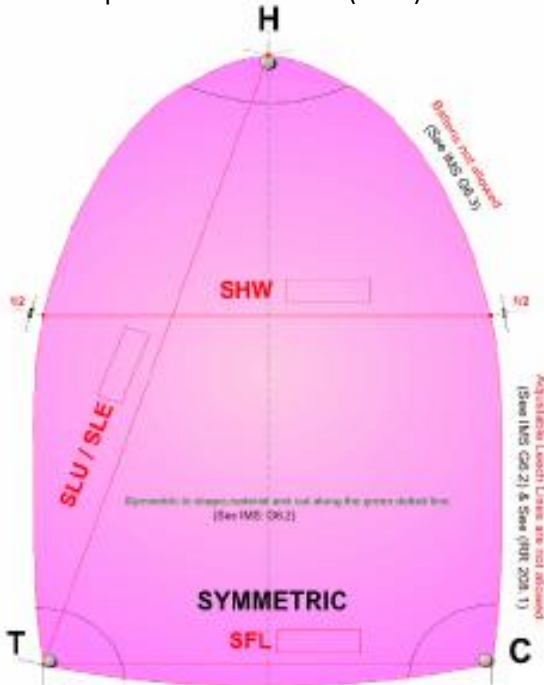


Mid Width must be $< 0.75 \times$ Foot

Mid Width: The distance between half luff point and half leech point (See IMS G6.7)

HEADSAILS (SET on a stay attached forward of the mast)

"Spinnaker Mid-Gerth (SMG) -- also called Spinnaker Half Width (SHW)"



MAINSAIL