

INTERNATIONAL THUNDERBIRD CLASS ASSOCIATION

BOX 199

SEATTLE, WASHINGTON 98111

U.S.A.

EXCERPTS FROM CLASS SPECIFICATIONS

4. Sails

(Revised: Jan. 16, 1971)

4.1. Material

4.11. No material other than woven fabric may be used.

4.12. Minimum fabric weight shall be:

- a. Mainsail and working jib: 4 oz./28"x36"
(113.4 gm./71.12 cm. x 91.44 cm.)
- b. Genoa jib: 3.25 oz./28"x36"
(92.13 gm./71.12 cm. x 91.44 cm.)
- c. Spinnaker: 0.75 oz./28"x36"
(21.3 gm./71.12 cm. x 91.44 cm.)

4.2. Battens shall be spaced evenly according to plan and shall number four (4) maximum in the mainsail and three (3) maximum in the working jib.

4.3. Transparent windows, the total area of which do not exceed 3 square feet (.2787 sq. m.) may be fixed in any one sail.

4.4. Insignia and numbers

4.41. The official Thunderbird class insignia, as set forth herein shall be fixed to both sides of the mainsail as diagrammed and to both sides of the spinnaker if obliged to do so by the National Authority of the country in which the yacht is normally sailed.

4.42. Each yacht shall carry the official registration number assigned by the Association, fixed to the mainsail according to sail diagram and to both sides of the spinnaker if obliged to do so by the National Authority of the country in which the yacht is normally sailed.

4.43. Champions may use the following colored sail insignia: (Numbers shall be black.)

- a. International - Gold
- b. National - Orange
- c. Regional - Blue
- d. Fleet - Red

These distinctive colors are the sole property of the skipper and shall remain with him if he should buy or build another yacht in which case the insignia on the original yacht shall be changed to reflect the status of the new owner.

4.5. Sail Hardware and Accessories

4.51. Adjustments to the foot of the main such as zippers, foot roach reefing strings and similar devices are permitted.

4.52. Means of mainsail attachment to the track is optional provided it meets the requirements stated under Mast and Construction.

4.53. Means of jib or genoa attachment to the forestay and/or luff wire is optional provided the jib may be lowered and stowed below deck without detaching the forestay to remove the sail.

4.54. Leech cords are permitted provided they are self-contained on the sail or do not extend beyond the limits of the sail dimension (i.e. beyond the black band on the boom.)

6. Measurements

6.11. Sails

6.111. Main, genoa and jib.

a. Measurement technique.

Dimensions shall be taken with the sails laid on the floor with only such tension applied to them to remove wrinkles. The corner of each sail shall be located by the intersections of the adjacent edges of the sail (extended if necessary) except for the mainsail head. At this location the corner shall be the forward upper corner of the headboard.

b. Dimensions

1. Mainsail

a. Luff - 31' (9.449 m.) maximum.

b. Foot - 13' (3.962 m.) maximum.

c. Leech - 33'3" (10.135 m.) maximum.

d. Batten pockets shall be equally spaced along the leech. Batten pocket length shall not exceed the length of the battens by more than 1" (25.4 mm.).

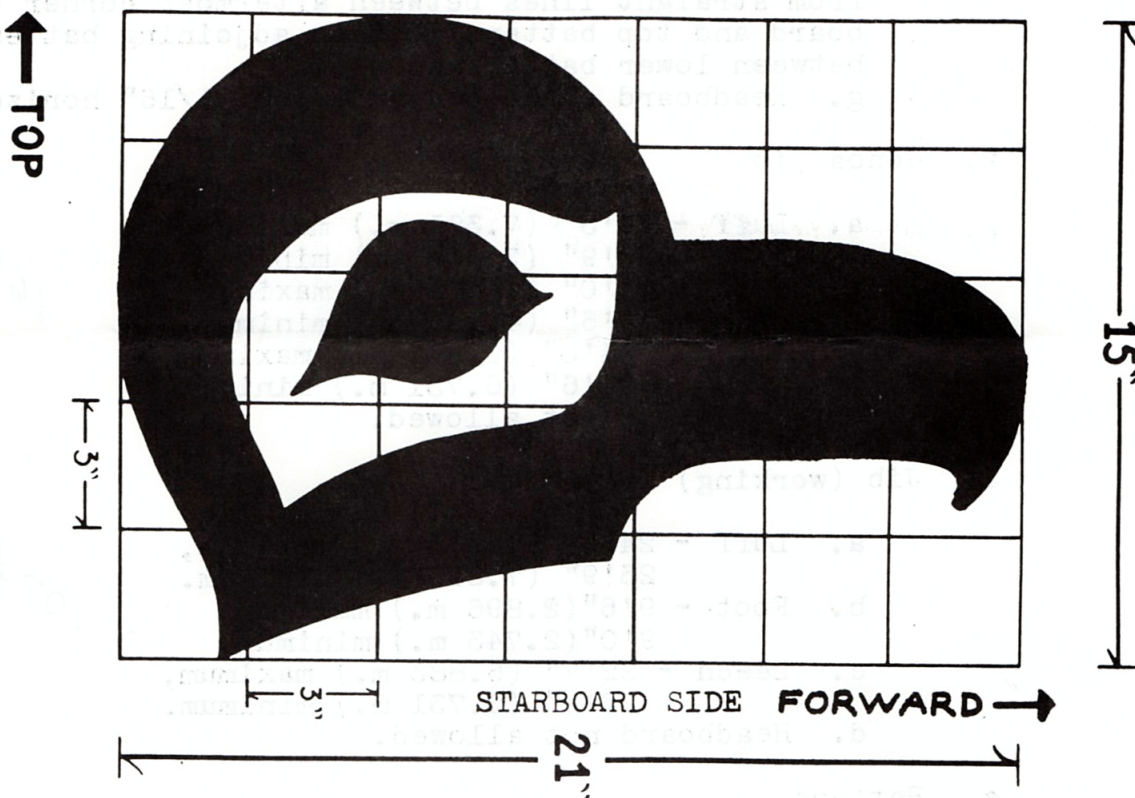
e. Girth

1. Mid-girth to be found by folding the peak to tack and peak to clew, marking these mid-points and measuring width of sail between them. Maximum shall be 8' (2.438 m.).

2. Upper girth to be found by folding peak to mid-luff and peak to mid-leech, marking these mid-points and measuring between them. Maximum shall be 4'9" (1.448 m.).

3. Lower girth to be found by folding tack to mid-luff and clew to mid-leech, marking these mid-points and measuring between them. Maximum shall be 11' (3.353 m.).

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This official insignia will be sewed "back to back" on the mainsail approximately 9'5" (2.87 m.) from the head. Color shall be black unless designating a champion (See 4.43).

Numbers shall always be black and shall be affixed to the mainsail according to the instructions of the national authority in which country the yacht is sailed.

(North American Yacht Racing Union Rule 25.d. states: "The sail numbers, letters and emblems shall be placed on both sides of the mainsail, at approximately two-thirds of the height of the sail above the boom, so that the lowest number shows when the sail is fully reefed. Sail numbers, letters and emblems shall sharply contrast in color with the sail and shall be placed at different heights on the two sides of the sail, those on the starboard side being uppermost, to avoid confusion owing to translucency of the sail. Sail numbers only, shall be similarly placed on both side of the spinnaker, but at approximately half height."

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- f. The leech shall not deviate more than $3/4$ " (19 mm.) from straight lines between aftermost corner of headboard and top batten, between adjoining battens, and between lower batten and clew.
- g. Headboard shall not exceed $4\ 11/16$ " horizontally.

2. Genoa jib

- a. Luff - $24'3"$ (7.391 m.) maximum,
 $23'9"$ (7.239 m.) minimum.
- b. Foot - $14'0"$ (4.267 m.) maximum,
 $13'6"$ (4.115 m.) minimum.
- c. Leech - $24'0"$ (6.883 m.) maximum,
 $23'6"$ (6.731 m.) minimum.
- d. Headboard not allowed.

3. Jib (working)

- a. Luff - $24'3"$ (7.391 m.) maximum,
 $23'9"$ (7.239 m.) minimum.
- b. Foot - $9'6"$ (2.896 m.) maximum,
 $9'0"$ (2.743 m.) minimum.
- c. Leech - $22'7"$ (6.883 m.) maximum,
 $22'1"$ (6.731 m.) minimum.
- d. Headboard not allowed.

c. Battens

1. Mainsail

- a. Upper and lower - 27" maximum (68.58 cm.)
Intermediate - 30" maximum (76.2 cm.)

2. Jib (working)

- a. 12" maximum (30.48 cm.)

6.112. Spinnaker

a. Measurement technique.

Dimensions shall be taken with the sail stretch between two people with no more than 5 pounds tension and no intermediate support for the sail between measurement points. Measuring tape shall assume same curve as sail.

b. Dimensions

Leeches - $26'6"$ (8.077 m.) maximum.

Width - $14'4"$ (4.674 m.) maximum.