

area upon which honor awards shall be displayed and has designated certain areas of the sail, shown on the plates published herewith, to be used for this purpose.

23.3 General - The penguin dinghy shall carry a loose-footed sail which, when set, must not encroach upon the limit marks on the spars (section 11) and which conforms with the limiting dimensions of this specification. All dimensions given in this specification are maximum dimensions. The headboard is to be included in all appropriate dimensions.

23.4 Dimensions The maximum dimensions of the sail are:

Luff 16'0", foot 8'8", leech 16'6", roach on foot 6", upper quarter girth 36", midgirth 64", and lower quarter girth 86.5". Girth measurements are to include the boltrope or other device used to run in the mast tunnel.

23.5 Measuring the Sail

23.5.1 Midgirth - Fold head to clew and mark the leech midpoint; measure midgirth from leech mid point to the nearest luff point, boltrope included.

23.5.2 Upper Quarter Girth - Fold head to leech midpoint, and mark the upper quarter point of the leech; measure the upper quarter girth from leech upper quarter point to the nearest luff point, boltrope included.

23.5.3 Lower Quarter Girth - Fold clew to leech midpoint and mark the lower quarter point on the leech; measure the lower quarter girth from leech lower quarter point to the nearest luff point, boltrope included.

23.5.4 Rounded Clews - Where a sailmaker has rounded the cow so as to make it difficult to establish leech midpoint and lower quarter point by normal means the owner of the sail may be directed by the measurer to provide a template, attached to the sail for the measurers convenience, which continues the curve of the leech and that of the foot to their point of intersection on the template.

23.5.5 Conditions of Measurement - The foot measurement and leech measurement shall be measured hand taught, which in cases of doubt means 2 1/2 lbs. of tension. Puckering strings, if any shall be fully eased during measurement. Girth measurements are to be made with the sail laid out flat and the sail, between the two reference points, shall be smoothed out against the

floor to eliminate the wrinkles. Sails shall not be preheated or cooled before measurement.

23.6 Battens - The sail shall be provided with 3 battens spaced evenly along the leech, and one batten in the foot.

Maximum length of the battens shall be as follows: upper 18", center 24", lower 21", and foot 12". Maximum width of battens shall be 1 1/2". No part of the outboard end of any leech batten shall lie more than 2 3/4" above its reference point on the leech; or 2 3/4" below; these reference points are the leech upper quarter point, leech midpoint, and leech lower quarter point described in 23.5 above. The foot batten shall be within 6" of the midpoint of the foot.

23.7 Stiffening Material

23.7.1 The Class holds that stiffening material should contribute to the life of the sail, contribute to the set of the sail or reduce the gradual development of stress wrinkles at tack and clew or at batten tips. Stiffening material may be so used, and should not be employed in such a way that unmeasured or unmeasurable sail are is added to the sail.

23.7.2 An abrupt change or artificial "jump" in the line of the leech near clew or headboard or in the line of the foot near tack or clew will be considered illegal.

23.7.3 Cringles, rings or grommets in tack or clew shall not exceed 1 3/4" outside diameter.

23.8.1 Headboard - The sail may be fitted with a triangular headboard not over 4 1/2" wide measured perpendicular to the luff and not over 5 1/2" in height measured parallel to the luff.

Any or all of its corners may be rounded. The measurement from the after edge of the luff rope to the aftermost point of the headboard shall not exceed 5 1/2".

23.8.2 The headboard shall not be gaff-headed, i.e., its upper edge shall not be at an angle higher than at right angles to the luff. The upper edge is defined as that edge of the headboard which lies aft of the point of attachment of the halyard.

23.9 Boltrope or Tape - The luff may be taped, roped or held in its tunnel by rod-like slides. The luff of the sail shall, however, be attached to the boltrope (or tape) or encase it for its entire length. Devices substituting for boltrope are to be measured when a measurement is to include the boltrope.

23.10 Foot Tension - Adjustment for foot tension shall be made from the clew only.

23.11 Windows - Mylar or other plastic windows are permitted provided that the area of such windows shall not exceed 216 square inches (1.5 sq. ft.). The windows shall not be closer than 4" to any edge of the sail.

23.12 Venturi Tubes, Etc. - Venturi tubes, vents or other openings in the sail are not permitted.

23.13 Sail Material - Sails shall be made of white material with black insignia and numbers of any color; these shall be as indicated on the sail plan. Sail material shall be limited to cotton, nylon, orlon (acrylic fiber), dacron (polyester fiber) with the latter two recommended.

23.14 Date of Purchase - The sailmakers are required to mark indelibly the date of purchase on each sail, preferably at the tack. Any sail not dated shall be in violation of this article and subject to protest.

23.15 Sailmakers Patch - The sailmakers label shall be placed in accordance with the International Sailing Federation (ISAF) Sail Measurement Instructions.

24. The Official Plans shall form a part of these specifications. Alterations of these plans may be made by the Executive Committee, as provided in Article XIII of these By-Laws.

25. All boats, the framing of which was begun on or after 1 January 1956, must comply with all specifications as published herein. Boats, the framing of which was begun before 1 January 1956 may comply with these specifications or the specifications of record on 1 January 1956, provided they also comply by 1 January 1960 with the limits as set forth in sections 2, 9, 11, 12, and 22, as published herein.