



## Construction of Plywood Hulls

14. Bottom and Sides: The weight of the plywood used must be at least 5.65 kg per square meter (18 1/2 ounces per square foot). If 10mm (3/8") material is used throughout, fiberglass or other covering material may be used to bring the hull up to a minimum weight.

Flotation: .085 cu.m. (3 cubic feet) of foam must be installed in the hull.  
15. All boats shall comply with the following flotation requirement: when the boat has been capsized and has remained in any position long enough to take in as much water as possible in high wave conditions, it shall, upon being righted, float so that the lowest point around the cockpit edge where water might enter the boat is at least 152mm (6") above the water when the boat is supporting 136 kgs (300 lbs). This may be accomplished by means of tank, flotation bags, self-bailing cockpits, increased low density floatation material, or other suitable means. Holes with maximum 645.2 sq.cm. (100 square inches) may be made in the transom to facilitate drainage. Where transom drains are used to comply with this rule they should have a minimum of 290.3 sq.cm. (45 square inches) total. For boats built before Jan. 1, 2001 meeting the requirements of this rule, the centerboard trunk may have a minimum height of 9" (229mm) above the outside of the keel if the boat, after capsizing and being righted, floats high enough so that water will flow out of the trunk; otherwise, the trunk shall be 51mm (2") above the water level in the boat after capsizing and being righted.

## Moment of Inertia Test

16. All bare hulls, as defined in paragraph 38, must be subject to the moment of inertia test (for a full description of method, see Supplement to Measurement Data Sheet for Moment of Inertia Test). The moment of inertia of the hull is calculated from the following formula:

Where: I = Moment of Inertia  
C = Spring constant, lb. per ft. (kg. per m.)  
D = Distance to axis, ft. (m)  
T = Time of one complete oscillation, seconds  
= 3.1416

$$I = \frac{CD^2T^2}{4\pi^2}$$

For our purpose,  $D = 104" - 1" + 9/32" = 103.281" = 8.6067 \text{ ft} (2.6233 \text{ m})$ .  
The spring constant will be furnished with springs from SCIRA.

We can now simplify the formula to:

$$\text{English: } I = \frac{8.6067 \text{ ft}^2 \text{ CT}^2}{4 \times 3.1416^2} = 1.8763(\text{CT}^2) \text{ slugft.}^2$$

$$\text{Metric: } I = \frac{2.6233 \text{ m}^2 \text{ CT}^2}{4 \times 3.1416^2} = .1743 \text{ CT}^2$$

The minimum moment of inertia of the hull as determined from above formula shall be:

Metric: 27.6 (metric slug meters squared)

English: 200 (slug foot squared)

If the hull moment of inertia does not meet the minimum, weight shall be moved to or added to the ends to bring it up to the minimum.

The Moment of Inertia for this boat is:

29.84 slug/m<sup>2</sup>

Amount of weight and detailed description of location of weight added to conform to MOI requirements (location must be marked on diagram on page 3 & 4.)

## Centerboard

17. Board: Verify dimensions with drawing, no other shape permitted. Maximum radius of bottom corners 13mm (1/2")\*. Centerboard shall be made of any hard aluminum alloy. 6061T6 or its equivalent is recommended. The thickness of centerboard shall be 10mm (3/8"). There shall be no inserts or other means of changing the distribution of the weight. Boards must be uniform thickness except within 25mm (1") of edges, which may be tapered off. Centerboards may be cut out for lightness (see drawing). The handle of the centerboard shall be installed in such a manner that the aft edge of the centerboard is perpendicular to the base line when the centerboard is completely down, and the centerboard shall not extend more than 851mm (33 1/2") below the keel. The 851mm (33 1/2") point shall be marked at aft edge on starboard side by a center punch.

17.1 Effective Jan. 1, 2001, centerboards complying with the measurement restrictions set out in Rule 17.1 (above) made of sheet molding compound (SMC) manufactured by Inapal Plasticos of Portugal may be used in any Snipe regatta up to, but not including, national championships and major international championships. In addition however, the national sec-

retary of any SCIRA country may approve the use of the SMC centerboard in the national championship of that country. Boats sailing with the SMC centerboard must add weight where it may be easily seen if necessary to comply with minimum weight restrictions of the Class. Such weight shall be permanently attached with peened over bolts, glass cloth, or permanent mastic. Only one centerboard may be measured and used at a regatta.

17.2 Trunk: Slot in centerboard trunk maximum 546mm (21 1/2") long and no more than 13mm (1/2") in width if in fiberglass or 14mm (9/16") if in wood or plywood. The aft edge of the centerboard trunk shall be perpendicular to base line. Forward edge of centerboard trunk shall either be perpendicular or slope forward 6mm (1/4") maximum at the top of trunk. If seals are used on the centerboard trunk, they shall be used at the top of the trunk only. Any type of seals may be used.

For all boats built after Jan. 1, 2001: the aft end of the centerboard trunk must be 310mm, -0 + 3mm (12 1/4", -0" + 1/8") from the outside of the hull to the top of the trunk. The top of centerboard trunk shall be parallel to baseline\*.

18. The centerboard must be restricted while racing in such a manner that no point of the bottom edge extends less than 305mm (12") below the keel. To permit checking the position of the centerboard while racing a band 25mm (1") wide shall be painted on each side of the board. The top of the band being even with the surface of the deck at the centerline of the boat while the board is raised on this maximum height. A safety line must be used on centerboard while racing. The safety line shall not be adjustable and shall be fastened to the boat and to the centerboard by a shackle or snap of suitable dimension.\* Any type of retaining system may be used, provided such system allows the crew to extend the board completely when capsized without swimming under the boat. Only one centerboard may be used during a regatta unless irreparable damage has occurred.

## Exception to Applicability of Prior Rules (#17 & #18)

The new centerboard shape and thickness must be used after January 1, 1976 on all boats in the World Championships, Western Hemisphere Championships and European Championships. Those existing boats which cannot use a 10mm (3/8") thick board because of trunk slot width shall use a 8mm (5/16") thick board of the new shape. The length of the trunk slot shall be 546mm (21 1/2") maximum.

## Rudder

19. The rudder shall be made of wood, wood & fiberglass, fiberglass or fiberglass & foam. Metal rudder blades are prohibited. Only one rudder may be used during a regatta unless irreparable damage has occurred.

20. The rudder thickness above and below the water line shall be 19mm (3/4") minimum and 38mm (1 1/2") maximum.

21. The width of the blade below the water line shall be 260mm (10 1/4") maximum and 254mm (10") minimum. This measurement is taken across the rudder approximately at right angles to its leading edge.

22. The minimum weight of the rudder including pintles shall be 2.72 kgs (6 pounds). Weight of no more than 450g. (1 lb.) may be permanently attached to a rudder to reach the minimum weight.

23. Where pivoting rudders are desirable because of purely local conditions, they may be used for local races only. They may not be used in any regattas or championships.

24. The tiller shall be strong and attached firmly to the rudder head in such a manner it cannot be slid fore and aft and does not extend far enough aft to artificially lengthen the boat. Tiller must be directly connected and completely above the aft deck.

25. The rudder must at all times be mounted parallel to the transom. It must be attached to the transom and as close to the transom as conveniently possible with 38 mm (1 1/2") maximum clearance. Vertical adjustments or changes in angle are not permitted. There shall be a suitable means of preventing the rudder from falling off with the boat inverted.

26. The gudgeons & pintles shall be 8mm (5/16") diameter.\*

26.1 The lower gudgeon shall be mounted on the transom 155mm (6 1/8") above the intersection of the transom and the keel. The upper gudgeon shall be 410mm (16 1/8") above the intersection of the transom and keel.

## Mast - Boom - Rigging

27. Only one mast may be used during a regatta unless irreparable damage has occurred. The mast must be minimum 32mm (1 1/4") athwartships at the top band or at any point below. The mast may be tapered above the stay intersection. Any taper in the mast above the stay intersection shall be essentially a uniform taper. Aluminum extrusions may be used and must be made of alloy 6061T6 or equivalent. Masts having an athwartship dimension of 54mm (2 1/8") or less must use spreaders. Spreader length and rake limit shall not be adjustable while racing. Rotating masts are prohibited.

27.1 When stepped, the centerline of the mast shall be located between 1524mm (60") and 1626mm (64") aft of the stem. (For measurement purposes the front side of the mast should be between 1494mm (58 7/8") and 1600mm (63") from the stem with the mast in vertical position)\*

27.2 For all boats built after Jan. 1, 2001: The floor of the mast step fitting must be no more than 400 mm (15 3/4") and no less than 390mm (15 3/8") below the sheer line. For older boats: The mast shall be stepped on the keel, or no higher than 51mm (2") above the flotation tank in the bottom.

SNIPe CLASS INTERNATIONAL RACING ASSOCIATION

1833 Tustin Street, San Diego, California 92106-1735 USA

28. Halyards must be used, and they must lead down the mast toward the boat, alongside, or inside the mast.

28.1 The shroud, jib stay, and jib halyard intersections with the surface of the mast shall be between 4470mm (14'8") and 4572mm (15'0") above the sheer. See drawing for method of determining the intersection. This limitation shall apply to all masts built after Jan. 1, 1992 and before Jan. 1, 2001.

For all boats built after Jan. 1, 2001: The shroud, jib stay, and jib halyard intersections with the surface of the mast shall be between 4860mm (15'11 3/8") and 4962mm (16'3 3/8") above the butt of the mast.

29. Two bands of 25mm (1") width shall be painted around the mast in a color to contrast with color of the mast. Tape which is not readily removable and which soon becomes as permanently attached as paint (such as one mil Mylar) may be used. Easily removable tape such as electricians or plastic decorative tape is not acceptable.

The bands shall be located as follows:

The lower edge of the top band to be not more than 6109mm (20' 1/2") above the sheer (Need not be measured on boats built after Jan. 1, 2001).

For all boats built after Jan. 1, 2001: The lower edge of the top band to be not more than 6499mm (21' 3 7/8") above the butt of the mast.

The upper edge of lower band shall be at maximum 5112mm (16' 9 1/4") below the lower edge of band.

While racing the main sail must be set so that its edges are within the inside edges of the bands.

30. The mast with halyards, stays, gooseneck, stay adjusters, spreaders and butt fitting must weigh 9.1 kg (20 lbs) minimum and nothing may be added to the basic mast except necessary fittings or reinforcements. The center of gravity in the conditions when weighed with the stays and halyards full length and temporarily taped to the mast, shall be at least 1524mm (60") above the lower band. If the mast complies with this rule it will remain legal if a blade or other reinforcement is added\*.

31. All boats must have a jib stay and two side shrouds. No backstay may be used. The jib stay must be all metal 2.5mm (3/32") minimum diameter, either wire or rod and must be fastened to a tang or other deck fitting. The length of the jib stay shall be such that it does not allow the mast to touch the back of the partner when the mast is restrained only by the jib stay with shrouds and the mast push/puller off. The length of jib stay and shrouds must be incapable of being changed during a race.

31.1 Anchorages of shrouds may be under deck. Shroud anchorages or through-the-deck fairleads must be not more than 102mm (4") inside the sheer line and between 1778mm (70") and 1981mm (78") aft of the stem.

31.2 The butt of the mast shall be positively retained in the step by means of a collar, cable or other suitable means. Movement of the mast, fore and aft, or lateral, may be restrained by blocks at deck level. Fore and aft guys may be used, with the guys attached to the mast no higher than the lower band. Mast shall not be moved at step while racing.

31.3 The use of light elastic line (shock cord) to remove slack in the jib stay and between the shrouds and the mast is permitted.

31.4 All other rigging optional. Running rigging optional. So-called streamlined rigging not permitted.

32. The boom length shall be 2642mm (8' 8") maximum, measured from the aft side of the mast.

33. The maximum depth of boom, including slot, shall be 102mm (4") and minimum 89mm (3 1/2") for a wood boom. Maximum width 76mm (3"). Minimum thickness of plank boom 19mm (3/4"). A section of 63mm (2 1/2") deep and at least 22mm (7/8") wide may be used. Any section that may be used for a mast may be used for a boom.

34. Aluminum booms must be made of alloy 6063T6 or equivalent.

35. A band 25mm (1") with the forward side located at 2559mm (8' 4 3/4") aft of the aft side of the mast (the aft side of the mast includes the sail slot and material enclosing the boltrope), will limit the length of mainsail foot. A screw or other stopper shall limit the mainsail foot so that the aftermost edge of the sail at the clew shall not be stretched beyond the foremost edge of the band.

36. Boom shall be essentially straight and shall not be tapered nor have lightening holes. The depth of the boom at either end may be reduced for access to blocks or boltrope. Only one boom may be used during a regatta unless irreparable damage has occurred.

### Weight Limit

37. The minimum weight, including mast, boom, rigging, mainsheet, one whisker pole or whisker pole launching system, centerboard, rudder and tiller shall be 172.8 kgs (381 lbs).

The bare hull including deck, centerboard trunk, floorboards, flotation, hull fittings and sail away equipment shall weigh 125.2kgs (276 lbs) minimum.

The weight of this boat as outlined above is 173.0 lbs/kg

Amount of ballast 2.0 lbs/kg

Ballast location must be Marked On Diagram on Page 3 & 4

In addition ballast up to 15 kg (33 lbs) may be permanently added in any location, subject to the requirements for Moment of Inertia and where it may be seen and it shall be attached with peened over bolts or glass cloth (See Supplement to Measurement Data Sheet for Moment of Inertia Test). Boats that do not meet the weight limit must have ballast permanently added before they can be given Measurement Certificate. Boats must be re-weighed at start of each season.

37.1 Extra weight added to compensate for the difference in weight of an aluminum centerboard and one made of SMC (see Rule 17.2) is exempted from the 15kg limitation in Rule 38.1.

38. Effective January 1, 1996, measurement certificates shall include a hull diagram showing ballast weight and location and Moment of Inertia value.

### Approved Options Not Covered Elsewhere

52. Self-bailing cockpit: no restriction on method of construction.

52.1 Hiking straps: no restriction on number or location.

52.2 Tiller extension: no restriction.

52.3 Boom vang: no restriction.

52.4 Cleats for jib sheets or mainsail sheets: no restriction on number, type or location.

52.5 Jib fairleads: no restriction on type and location.

52.6 Mainsheet bridle: any type or location permitted. May be adjusted while racing.

52.7 Mainsail clew outhaul: any type permitted. May be adjusted while racing.

52.8 Sliding gooseneck: may be on track or in slot in mast. Must have some means to prevent downward movement beyond position giving maximum legal length of luff. The position of gooseneck may be changed while racing.

52.9 Floorboards are optional.

52.10 All metric measurements are taken to the nearest millimeter\*. Questions must be resolved by using the customary system which is also shown, and which was used in designing the boat.

52.11 The maximum overall length of the whisker pole is 2642mm (104") and it may not extend in front of the bow of the boat or aft of the boom when not deployed. Pole launcher and retractor system using shock cord are allowed. The mast fitting from which a retractable whisker pole is launched shall not project further than the forward face of the mast.

52.12 Carbon, aramid fibers or micro-grooved film shall not be used in hull construction or major equipment. Exotic materials may be used in running rigging fittings only if commercially manufactured and readily available on the open market at prices competitive with similar fittings and equipment of non-exotic material.

52.13. No electronic devices other than timers shall be used on the boat.

### Miscellaneous

52.14 Boats must carry wearable life preservers for all occupants at all times, and race committees may require wearing them when racing when they consider it necessary.

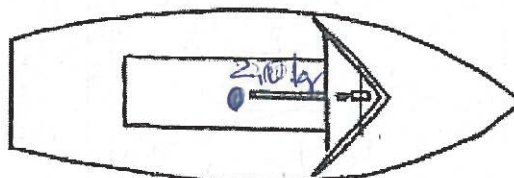
52.15 Suitable paddle or oar must be carried.

52.16 A towline of 10 meters (33') minimum length, and 6mm (1/4") minimum diameter must be carried. SCIRA makes no prescription on anchor but some local authorities may require it.

52.17 There shall be no advertising matter whatever on the outside or inside of any boat or on its sails, except as allowed by the SCIRA Event Sponsorship Policy. Any boat infringing this ruling shall not be issued or shall be subject to loss of measurement certificate.

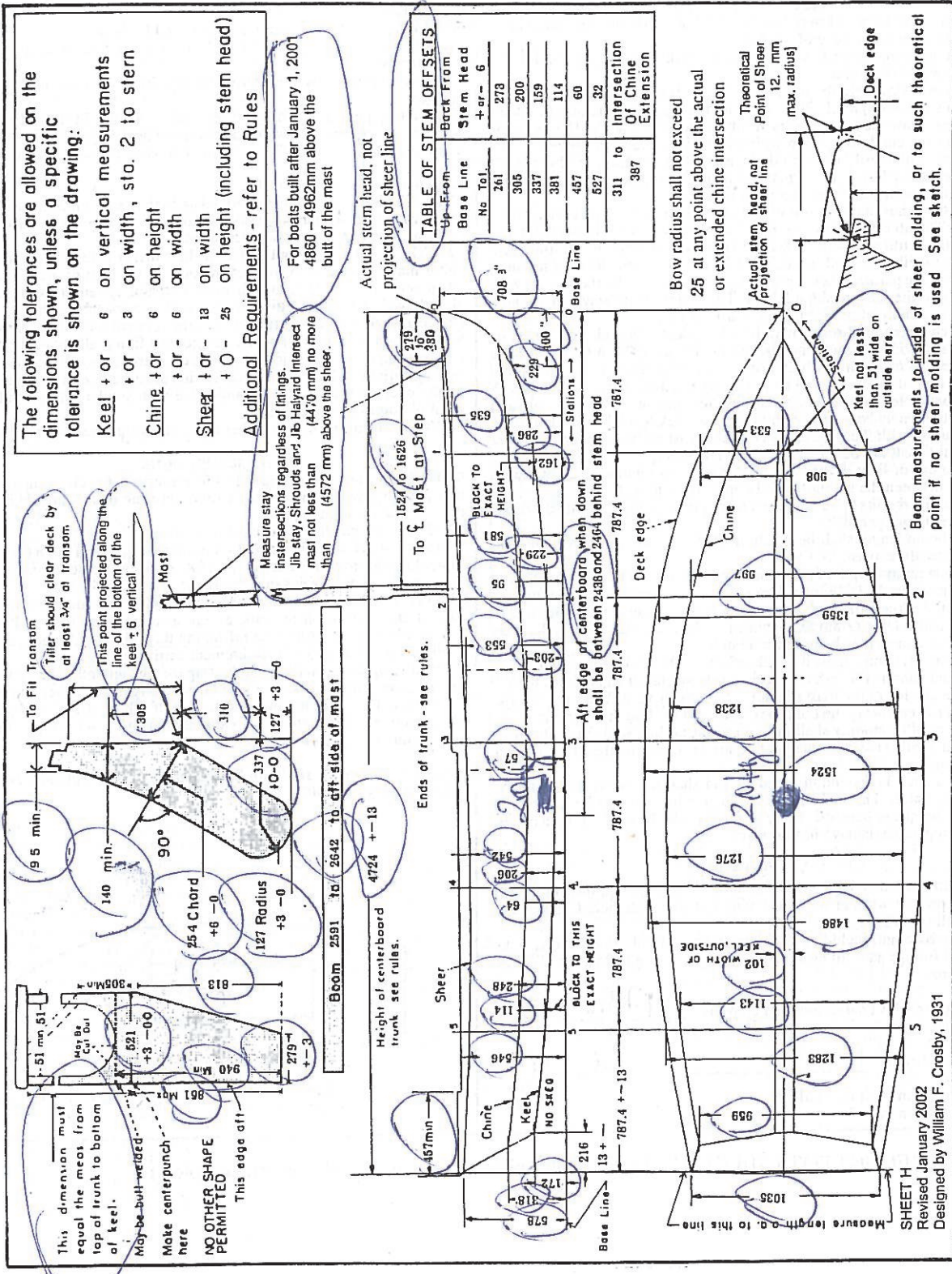
52.18 Sliding seats, hiking boards, trapeze rigs and other artificial methods of supporting the skipper's or crew's weight to balance the boat are prohibited. This does not prevent the use of hiking straps or any kind of line or cord attached to the boat within 203 mm (8") of the top of the deck. It is permissible for the crew to hold on to the side stays.

Sentences marked \* shall apply to boats, masts, booms and sails built after January 1, 2000.



Briefly note exceptions here (If additional explanatory sheet is attached, check. . .)

**MEASURERS ARE CAUTIONED TO FILL OUT THIS DATA SHEET IN FULL AND AS ACCURATELY AS POSSIBLE:**  
 Those measurements found correct should be "circled" carefully on the drawing below, preferably with colored pencil.  
 If certain measurements are *not* within the limits shown, cover same on the drawing with an "X" and use a reference letter or line across to your marginal note, giving the actual measurement.



The following tolerances are allowed on the dimensions shown, unless a specific tolerance is shown on the drawing:

Keel + or - 6 on vertical measurements  
 + or - 3 on width, sta. 2 to stern  
 Chine + or - 6 on height  
 + or - 6 on width  
 Sheer + or - 13 on width  
 + 0 - 25 on height (including stem head)

Additional Requirements - refer to Rules

For boats built after January 1, 2007  
 4860 - 4962mm above the  
 butt of the mast

Actual stem head, not  
 projection of sheer line

**TABLE OF STEM OFFSETS**

Up-From	Back From
Base Line	Stem Head
No. Tol.	+ or -
261	273
305	200
337	159
381	114
457	60
527	32
311 to	Intersection
387	Of Chine
	Extension

Bow radius shall not exceed  
 25 at any point above the actual  
 or extended chine intersection

Actual stem head, not  
 projection of sheer line

Theoretical  
 Point of Sheer  
 12. mm  
 max. radius

Deck edge

Beam measurements to inside of sheer molding, or to such theoretical point if no sheer molding is used See sketch.

SHEET H  
 Revised January 2002  
 Designed by William F. Crosby, 1931

I hereby certify that I am the official measurer of the Blue Jay Divisional  
 Fleet, Charter No. 159  
 I certify and affirm that I have carefully measured this boat No. 20703 to the best of my ability and that all the  
 measurements written herein or checked by me were found to be exactly as indicated. I am ready and willing to swear  
 to this before any accredited notary public.  
 (Date) 01/10/08 (Measurer's Signature) [Signature]  
 Recommended for Certificate (Y) (Initial) Not Recommended \_\_\_\_\_

PLEASE USE INK

Note: The Fleet Measurer must under no circumstances  
 give the Certificate of Measurement to the owner unless he  
 is positive that the boat fully complies with these restric-  
 tions. If positive, the Measurer gives the Certificate to the  
 owner and sends this Data Sheet to the Secretary.