

# SNIPE CLASS RACING ASSOCIATION

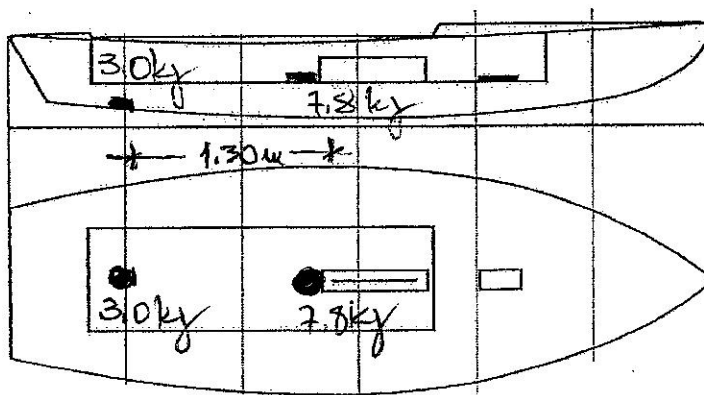
## MEASUREMENT DATA SHEET Sheet I- revised January 2009 For boats built after January 1, 2009

HULL NUMBER 303A1 BUILDER DIEMER  
 MODEL 2015-D YEAR 2015  
 OWNER EDUARDO DA COSTA SILVA COUNTRY Brazil

BARE HULL  COMPLETE  from certified mould  INCOMPLETE   
 HULL MATERIAL: WOOD  FIBERGLASS  *make note of*  
 DECK MATERIAL: WOOD  FIBERGLASS  *incomplete items*

HULL WEIGHT (MIN 125KG)	<input checked="" type="checkbox"/>	MAST LENGTH (6499MM)	<input checked="" type="checkbox"/>
TOTAL WEIGHT (172.8KG)	<input checked="" type="checkbox"/>	Limiting bands & pin	<input checked="" type="checkbox"/>
BALLAST (MAX 15KG mark below)	<input checked="" type="checkbox"/>	BOOM LENGTH (2642MM from aft edge of mast)	<input checked="" type="checkbox"/>
MOI	<input checked="" type="checkbox"/>	Limiting bands	<input checked="" type="checkbox"/>
JIB FITTING (279-330 dist. from pt 0)	<input checked="" type="checkbox"/>	POLE LENGTH (2642MM)	<input checked="" type="checkbox"/>
SHROUDS (1778-1981mm dist. from pt. 0)	<input checked="" type="checkbox"/>	RUDDER DIMENSIONS	<input checked="" type="checkbox"/>
UPPER GUDGEON (410+/-3MM)	<input checked="" type="checkbox"/>	RUDDER WEIGHT (2.72kg)	<input checked="" type="checkbox"/>
LOWER GUDGEON (155 +/-3MM)	<input checked="" type="checkbox"/>	Fits the Transom (Y/N)	<input checked="" type="checkbox"/>
MAST HOLE (1494mm dist. from pt. 0)	<input checked="" type="checkbox"/>	CENTERBOARD DIMENSIONS	<input checked="" type="checkbox"/>
TRUNK HEIGHT (310 -0+3MM)	<input checked="" type="checkbox"/>	Band	<input checked="" type="checkbox"/>
		Restraining System & stoppers	<input checked="" type="checkbox"/>

Mark ballast here



DATE MEASURED 10/28/2015

MEASURER'S SIGNATURE [Signature]

MEASURER'S STAMP **01 SCIRA MEASURER**

NOTES:

**BRAZIL**

Both pages must be completed and sent to the SCIRA office upon completion of measurement except if hull is from a certified mould.

# SCIRA Measurement Check Sheet

To be used with the 80/20 true baseline measurement frame

Owner: EDUARDO COSTA F SILVA

Date: 10/28/2015

Hull # 30341 Builder: DIEMER

Material: FG

## Chines Height

Station	Starboard	Port	Total	Allowable Range	Width	Allowable Range
1	426	422	848	838-864	534	527-540
2	375	374	749	724-749	993	991-1003
3	324	343	667	673-699	1234	1232-1245
4	343	342	685	680-705	1274	1270-1283
5	381	385	766	762-787	1139	1137-1149
Transom	472	496	968	902-927	153	952-965

## Sheer

Station	Starboard	Port	Total	Allowable Range	Width	Allowable Range
1	763	779	1542	1499-1549	920	895-921
2	716	715	1431	1391-1441	1360	346-1372
3	687	689	1376	1333-1384	1522	1511-1537
4	671	668	1339	1321-1372	1175	1473-1499
5	623	675	1298	1321-1372	1278	1270-1295
Transom	674	698	1372	1384-1435	1025	1022-1048

## Keel

	Height	Width
400mm	✓	✓
1	✓	✓
2	✓	✓
3	✓	✓
4	✓	✓
5	✓	✓
Transom	✓	✓

## Rudder

Weight	✓
2.72kg	✓
Shape	✓
Thickness	✓
Lock	✓
Keel Ext.	✓

## Daggerboard

Bottom	✓
Shape	✓
Thickness	✓
Stripe	✓
Punch mark	✓
Tapers	✓

Horizontal Transom Offset 203-229 ✓

LOA 4711-4737 ✓

Weight 172.8 kg

Ballast (lead) 10.8 kg

MOI > 27.6 27.71 slug/m<sup>2</sup>

Mast

Boom

Bow

Band loc	✓
Length < 6499mm	✓
Limiting pin	✓
Sheer mark	✓
Weight/bal 9.1kg	✓

Band loc 2559mm	✓
Limiting pin	✓
Max Length < 2642mm	✓
Pole length < 2642mm	✓

Stem height 683-708	✓
Bow radius	✓

## Topside Measurements

Aft end of Trunk 2438-2464 from stem	✓	Length of daggerboard slot	✓
Top of trunk parallel to baseline	✓	Width of daggerboard slot	✓
Aft edge of trunk perpendicular to baseline	✓	Stem to mast partner > 1494	✓
Keel to top of trunk 310-313 <u>311</u>	✓	Length of foredeck > 1842	✓
Shroud fitting to stem 1778-1981	✓	Length of aft deck > 457	✓
Mast step to sheer (vertical) 390-400 <u>39.15</u>	✓	Headstay to stem 279-330	✓

Measurer [Signature]

# 30341 SNIPE CLASS INTERNATIONAL RACING ASSOCIATION

NO MAST, RUDDER

## MEASUREMENT DATA SHEET

Sheet H - Revised January 2001

For all boats built after January 1, 2001

EXCEPT AS NOTED

### Use Standard Marking Procedure on this form:

- When NOT within the tolerance limits allowed, mark an "X" in the margin and state actual measurements.
- Otherwise, do not write in the measurements of this boat except where specifically called for.
- Draw a circle around the number of each paragraph when you have verified or carried out all its details.
- When your examination is completed, every paragraph number will be "circled" (indicating conformity); or will bear an "X" in the margin (indicating something needs to be rebuilt or submitted to the International Rules Committee for decision).

### \*\*PLEASE PRINT\*\*

- (a) Measurers must fill in every blank space provided on the Measurement Data Sheet. Each dimension shown must be verified by the measurer and if the dimension is not either the maximum or minimum or between the two, the measurer may recommend certificate good for local races only on home built boats, if discrepancy is MINOR and clearly shown. No discrepancies permitted on professionally built boats.
- (b) Each boat must have been assigned a racing number by the Association. This number must be carved, burned, or molded into the centerboard trunk in an unobscured position. Minimum height of these numbers must be 13mm (1/2"). Unless this is done, a boat cannot receive a Certificate of Measurement.
- (c) In order to be eligible to race, every boat must have an official decal for the current year, permanently attached to the starboard side just forward of the transom. Decals will be issued by the appropriate National Secretary for each year that dues are paid.

Official Racing Number of boat on trunk 30341

Boat's Name \_\_\_\_\_

Full name(s) and address(es) of owner(s) \_\_\_\_\_

ROBERTO TOZZI

Name and charter number of the fleet in which this boat is expected to compete. \_\_\_\_\_

Name, complete mailing address and telephone or fax number of builder. \_\_\_\_\_

PERSSON STAR MARINE HIGH TECH  
VIA PETRONIO, 11 - 34015 MUGLIA

### GENERAL RESTRICTIONS ITALY

1. The purpose of the restrictions under which Snipe hulls and sails are approved is to ensure that, to as great degree as possible, all hulls and sails have identical racing capability. It is impossible to list every single variation that might turn up in the future, and it is impossible to make any set of restrictions, which at some future date, someone cannot find what appears to be a legal means of obtaining some racing advantage. Any boat or sail having features which are not consistent with this purpose will not be approved and cannot race even though there is no specific restriction preventing the item in question. Improvements and changes will be made only when these changes do not obsolete older boats and sails from the standpoint of racing capability or when they can be accomplished by anyone at reasonable expense.
2. Boats must be measured by officially appointed or elected Fleet Measurers or by Class Measurers approved by SCIRA. No certificate shall be acceptable unless recommended and signed by such a Measurer. (See also Certified Builder Rule on page 54)
3. Boats, to be eligible to race in this Class, must be built to conform in every way to these measurement rules. A boat that does not meet all these requirements shall be ineligible to receive a Certificate of Measurement, but it retains its identifying number. Such boats cannot take part in any open or closed regattas whatsoever. The measurer must notify the Executive Director of any boats that cannot pass these requirements, giving the boat number, and the name and address of both the builder and owner.
4. Nothing is optional in these plans, specifications or restrictions unless definitely stated as such.

### Hull

5. Thickness of sides, transom, sides of centerboard trunk and bottom:  
Fiberglass: 3mm (1/8") minimum  
Fiberglass and foam sandwich or fiberglass and honeycomb sandwich: 3mm (1/8") outer skin and 1.5mm (1/16") inner skin minimum.  
Wood: density of 512 kg per cubic meter (.0185 lbs. per cubic inch) or greater, 13mm (1/2") minimum. Density of less than 512 kg per cubic meter (.0185 lbs. per cubic inch), 19mm (3/4") minimum.  
Plywood: 10mm (3/8") minimum.  
Plywood and fiberglass: 10mm (3/8") minimum plus fiberglass.
6. Keel width 102mm (4") plus or minus 3mm (1/8") on flat under surface from stern to station 2 and minimum 51mm (2") wide at station 1.
7. Stem must be a smooth curve and it must follow the table of stem offsets shown on drawing.
8. Maximum chine radius is 19mm (3/4") at station 1, tapering to 3mm (1/8") at station 2, and is 3mm (1/8") from there aft.
9. Maximum lack of flatness aft of station 1 in any cross section is 3mm (1/8") per each 305mm (foot) of distance over which the lack of flatness is being checked (i.e. distance 305 mm = 3mm, distance 456 mm = 4.5 mm, distance 610 m = 6 mm of lack of flatness).

### Deck

10. Thickness: Plywood: 6mm (1/4") minimum. Exterior grade maybe used.  
Fiberglass: 1.5mm (1/16"), Fiberglass and foam or honeycomb: 1.5mm (1/16") outer skin minimum.
11. Forward deck must extend the full width of the boat to a point at least 1842mm (72 1/2") aft of the stem.
  - 11.1 - Afterdeck minimum 457 mm (18") in length.
  - 11.2 - Maximum crown of deck 127 mm (5").
  - 11.3 - The top of the spray boards must be minimum 51 mm (2") vertically above deck for minimum of 610 mm (2') on either side of the centerline.
  - 11.4 - Maximum projection of deck or sheer molding beyond sheer is 32 mm (1 1/4") in a horizontal plane, level with the sheer.
  - 11.5 - The hole in the deck where the mast goes through the deck (partners) shall have a maximum size of 76mm (3") athwartship by 254mm (10") fore and aft. The front side of the hole shall not be more than 1499mm (58 7/8") aft of the stem\*.

### Cockpit

12. Maximum width: 1016 mm (40"). If the deck alongside the cockpit curves down on a radius, the maximum width shall be checked at the intersection of the deck with a plane 51 mm (2") below the sheer. Cockpit corners may be square or rounded to any desired radius.

### Construction of Fiberglass Boats

13. Only professional boat builders certified by SCIRA can make fiberglass Snipe hulls (See Certified Builder Rule, page 54) Effective January 1, 1965, the construction of fiberglass hulls has been allowed under the same tolerances as approved by ISAF and now in effect for wood hulls. The loft lines do not show any sheer molding. Part or all of a sheer molding may be molded with hull. Each builder's method of construction of fiberglass boats must be approved by the Rules Committee. The thickness of the hull must be uniform except where reinforced locally such as at keel, the chine, the stem, the mast step, and where the stay anchorages and rudder gudgeons are attached. Increased thickness due to incorporation of flotation material in either the sides or bottom of the hull is not a violation of this requirement. If desired, the floorboards may be bonded directly to the bottom on the boat, omitting supports. A fiberglass and foam sandwich floor structure may be used. Wood and plywood are acceptable local reinforcements.
  - 13.1. All professionally built boats must be measured before leaving the factory by a measurer satisfactory to the builder and the national secretary. Boats not so measured are prohibited from competition at regattas above the local level until measurement is complete. Complete measurement includes a Moment of Inertia test.  
Materials: fiberglass cloth, woven roving or mat may be used, with either polyester or epoxy resins. Glass content must be at least 30% by weight.  
Deck: The deck may be plywood or it may be fiberglass. In general, a fiberglass deck will require some type of double surface and core construction for adequate stiffness.  
Flotation: .184 cu.m. (6 1/2" cubic feet) of Styrofoam, Urethane foam, or equivalent, having a density of 40 kg cu.m. (2 1/2 kg per cubic foot) maximum must be built into the hull. Balsa wood or foam enclosed in resin-impregnated fiberglass cloth is considered equivalent. Supposedly airtight compartments are not considered adequate.

MEASUREMENT DATA SHEET "H" (For all boats built after January 1, 2001, except as noted.)



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 top 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 stream-lined 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 172.8 lbs/kg

Amount of ballast 495 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.

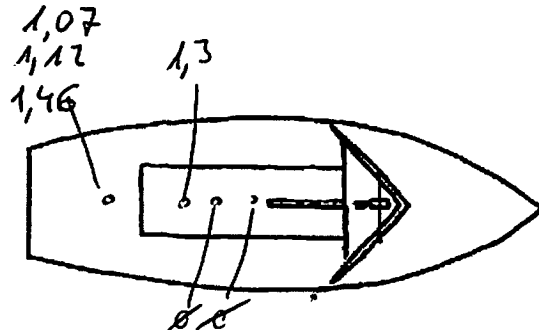
52.15 Suitable paddle or oar must be carried.

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.

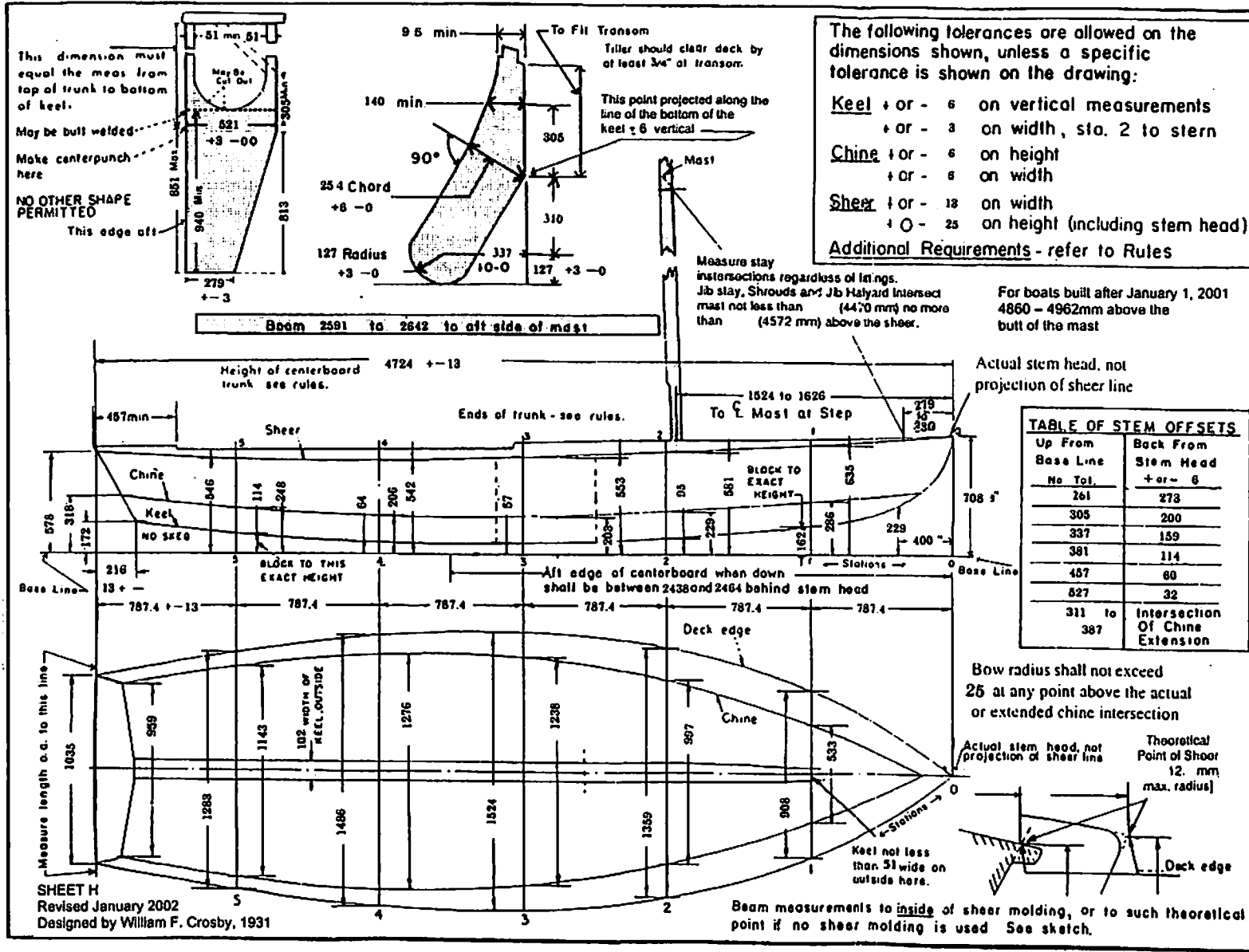
52.18 Sliding seats, hiking boards, trapeze rigs and other artificial methods of supporting the skipper's or crew's weight to balance the boat are prohibited. This does not prevent the use of hiking straps or any kind of line or cord attached to the boat within 203 mm (8") of the top of the deck. It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



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.

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



PLEASE USE INK

I hereby certify that I am the official measurer of the INT. MES Divisional Fleet, Charter No. \_\_\_\_\_  
I certify and affirm that I have carefully measured this boat No. 30341 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) 04.14.2005 (Measurer's Signature) GIORGIO BREZICH  
Recommended for Certificate YES (Initial) Not Recommended ANNO

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 restrictions. If positive, the Measurer gives the Certificate to the owner and sends this Data Sheet to the Secretary.