

OFFICIAL STAR CLASS MEASUREMENT CERTIFICATE

SEC. A.

7170 C

1. Yacht's Number 7170
 2. Builder ROSA STAR MB (Olle Johansson)
 3. Year Built 1986
 4. Builder's Hull Number _____
 5. Material of Construction GRP
 6. Type and location of characters used to install yacht number in hull IN DOBBEL BOTTOM
 7. Yacht Name ROSANA
 8. Owner ULF MALMBORG
 9. Address GUSTAVSGATAN 4 21611 MALMO
 10. Fleet SANDHAMN
 11. Remarks NO

SEC. B. DECLARATIONS:

1. I certify that I have measured items I through VI under hull measurements and K1 through K14 under keel measurements on page two of this certificate and have entered the data, the information is correct and complies with I.S.C.Y.R.A. rules.

Print name Sture Olsson

Signed Sture Olsson Date 6/5-86
 (Certified Star Class Measurer)

2. I certify that this yacht has been constructed in accordance with current plans and specifications of the I.S.C.Y.R.A., and that the keel conforms to the approved keel plan. I have completed item VII, Buoyancy, on page two under Hull Measurements.

Print name _____

Signed Olle Johansson Date 6/5-86
 (Builder)

3. I certify that this yacht has been fitted out in accordance with the current plans and specifications of the I.S.C.Y.R.A.

Print name Sture Olsson

Signed Sture Olsson Date 6/5-86
 (Outfitter)

4. TO BE COMPLETED WHEN YACHT OWNERSHIP CHANGES

I certify that no alterations have been made on this yacht that would affect the measurements recorded on page two of this document.

Print name Ulf Malmberg / Olle Johansson

Signed Olle Johansson Date 6/5-86
 (Owner)

5. TO BE COMPLETED WHEN STRUCTURAL CHANGES HAVE BEEN MADE ON A YACHT

I certify that I have inspected the changes outlined in the attached plan covering the structural alterations made on this yacht and find them to be in accordance with the current plans and specifications of the I.S.C.Y.R.A.

Print name Sture Olsson

Signed Sture Olsson Date 6/5-86
 (Certified Star Class Measurer)

YACHT NUMBER 7170

HULL MEASUREMENTS:

I.
 A 4630
 B 1193
 C 1278
 E 2140
 O 6674
 P 300
 R 1970
 S 3
 TA 15.8°
 L.O.A. 6934

II.
 Chine Radius OK
 Stem Radius OK
 Side Flatness OK

III.
 Rudder Template YES
 Thickness 29
 Post Dia. 25

IV.
 Skeg Depth 402
 Skeg Contour 24

V.
 Heights Above Baseline:

Stations	1	3	6	8	10
Keel	486	245	105	182	390
Chine	X	316	232	282	446
Side	810	783	735	704	680
Bottom Arc	X	OK	OK	OK	OK

VI.
 Half Breadths:

Stations	1	3	6	8	Stern
Deck	201	606	854	782	501
Chine	94	410	672	630	415

VII.
 Buoyancy: (Builder)
 Hull CONTAINED 347 Litre
 Tanks 3
 Compartments 340ft 2770 Litre
 Closed Cell Foam YES
 Air Bags —

KEEL MEASUREMENTS:

K1 1160
 K2 1220
 K3 40
 K4 1360
 K5 25.5
 K6 765
 K7 217
 K8 310
 K9 801
 K10 963
 K11 99
 K12 89
 K13 67
 K14 294

WEIGHT CERTIFICATION:

Keel less finish —
 Keel with finish 403

I certify that the weights shown are correct and were measured on a scale that has been calibrated within the last year to an accuracy of .5% of reading.

Print name STURE OLSSON

Signed Sture Olsson Date —
 (Builder)

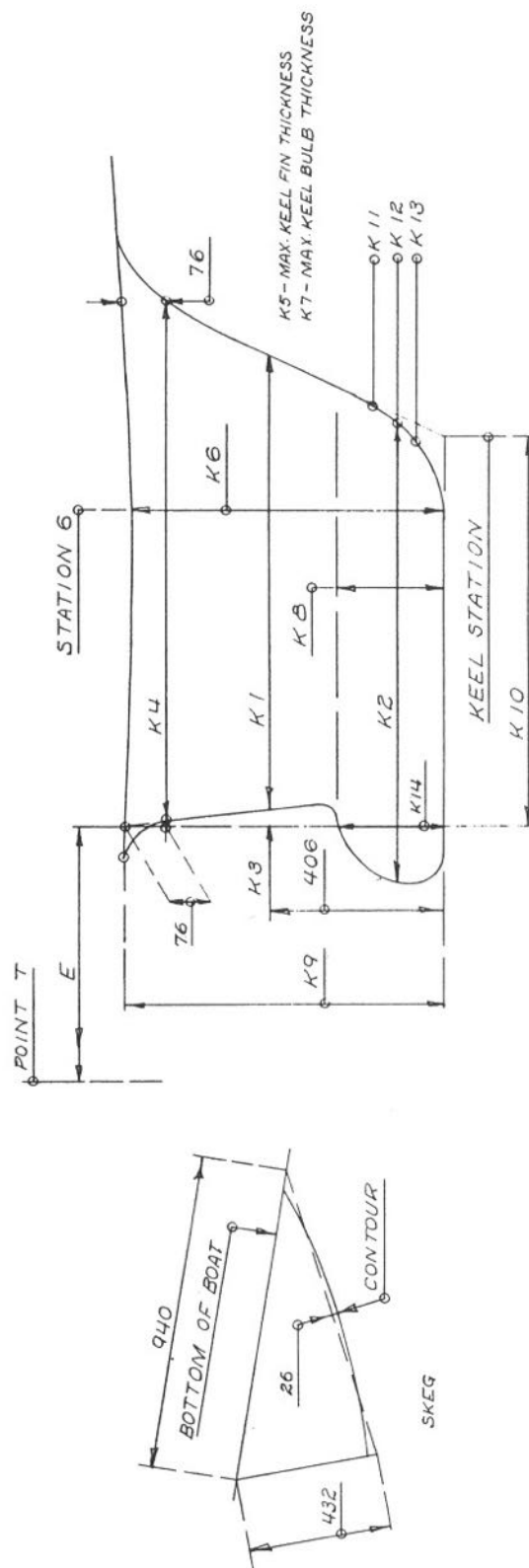
Yacht weight with rigging
TOTAL 672

Added Weight 6 kg lead

Type and location of added weight —

I certify that the weights shown are correct and were measured on a scale that has been calibrated within the last year to an accuracy of .5% of reading.

Print name STURE OLSSON
 SIGNED Sture Olsson
 (Builder, outfitter or owner)



Page Four

SEC. C. TO MEASURERS:

1. The duties of a certified measurer are confined to measuring yachts and reporting facts. He has no authority to grant or reject certificates or interpret rules. Complete instructions will be sent to him by the International Measurement Committee after his appointment.
2. This form must be made out by the certified measurer in duplicate. He must answer I through VI in the Hull Measurement and all under Keel Measurements. Both Copies are to be sent to the I.S.C.Y.R.A. central office. In case some dimensions are not available, file one copy with the I.S.C.Y.R.A. and forward one copy to the owner who becomes responsible for its completion.
3. Declarations must be signed as required.
4. Certified measurers are entitled to a reasonable fee for measuring, but the Association is not responsible for its payment.
5. A certified measurer cannot measure a yacht in which he owns an interest.

Sec. D. CONDITIONS UNDER WHICH CERTIFICATE IS ISSUED:

1. This certificate is not valid unless it bears the inspection stamp of the I.S.C.Y.R.A. and is signed by the chairman of the International Measurement Committee. It shall be revoked if any structural changes are made or if not properly transferred to a new owner. It may be revoked at any time by order of the International Measurement Committee or the International Governing Committee.
2. This certificate shall be binding on all members, fleets, clubs, or organizations conducting races for the Star Class. The holder of this certificate shall not be subject to protest on hull measurements unless an order to remeasure is obtained from the International Race Committee, International Measurement Committee, or International Governing Committee.
3. This certificate shall be replaced when the yacht is altered or sold. For replacement, send this certificate and ten dollars, U.S. Funds, to the I.S.C.Y.R.A Central Office.



The International Measurement Committee finds that the yacht described herein conforms with the plans and specifications of the Star Class and therefore grants this certificate to the yacht owner, subject to the conditions set forth above so long as the owner or owners of the yacht are members of the I.S.C.Y.R.A.

Signed *Joseph L. Snow*
(Chairman International Measurement Committee)

Date 22 August 1986

YACHT NUMBER

I.S.C.Y.R.A.

Buoyancy Test Certificate

7170

Reference: Specifications, Article VII

THIS CERTIFICATE IS VALID FOR THIS YACHT AND THIS OWNER ONLY

THIS CERTIFICATE IS NOT TRANSFERABLE TO ANOTHER OWNER

EVERY YACHT OWNER MUST TEST HIS OWN YACHT

INSTRUCTIONS:

- Each Star Class Yacht must pass the prescribed buoyancy test which must be conducted by the owner and shall be witnessed by a Fleet or Class Officer or Certified Star Measurer.
- Yacht with crew, rig and all normal racing equipment, except sails, shall be swamped on a hoist. Boat shall remain afloat, with slack hoist and slack mooring lines, for 10 minutes. (See the LOG for suggested guidelines for conducting the test.)
- Complete Certification in duplicate. **Witness sends one copy to I.S.C.Y.R.A.**, 1545 Waukegan Road, Glenview, IL 60025 U.S.A.; owner shall retain other copy.
- Describe additional flotation equipment, other than hull structure. (Mention type, size, location, etc.)

Stern-tank ca 1 m³

Bow - tank ca 1,5 m³

Double-bottom ca 1,5 m³

- I conducted a test for this yacht in accordance with the above instructions.

ULF Malmberg

Owner's Name

Owner or Representative's Signature

6/5-86

Date

I attended the above test and acknowledge that the yacht named floated for 10 minutes following the instructions above. I further certify that the yacht at the time of the test contained only the additional flotation equipment described in Paragraph 4 above.

Sture Olsson

Witness's Name and Title

Sture Olsson

Witness' Signature

6/5-86

Date

ONE COPY OF THIS FORM MUST BE ON FILE IN THE CENTRAL OFFICE TO BE VALID

ISCYRA
Att: Joseph Knowles
214 Andrews Street, Apt. 3A
Rochester, NEW YORK
U.S.A. 14604

1986-08-14

Thanks for your explanatory letter regarding the measurement certificates for 7169, 7170, 7171 and 7172.

- Total foam volume calculated in hull lay-up is 377 litres and with a dencity of 80 kg/m^2 this will give the total floating force of 347 kg.

- Calculated compartment volume are as follows:

Aft	compartment:	900 litre
Forward	- " - :	850 litre
Bottom/side	- " - :	<u>1020 litre</u>

TOTAL 2770 litre

- Outfitter of the mentioned boats on item 3 are the same as builder, item 2.
- Entries on item 4 and 5 are as you mentioned not necessary in this case.

Due to the shortage of time until Starworlds, September -86, the original measurement certificates + copies are enclosed.

Kindly hope for quick handling and approval as soon as possible. In the future two originals will be sent to you.

Yours sincerely,



Anders Johansson, Olle's brother.

ISCYRA
AUG 27 1986
CENTRAL OFFICE