

OFFICIAL STAR CLASS MEASUREMENT CERTIFICATE

Sec. C.

Instructions 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 as to how to measure will be sent to him by the International Measuring Committee after his appointment.
2. This Form must be made out by the Certified Measurer IN DUPLICATE. He must answer all questions in Sect. A, and fill in all dimensions, and file both copies with International Measurement Committee. In the case when all dimensions are not available, file one copy with I.M.C. and forward one copy to owner who becomes responsible for obtaining completion of measurements.
3. Declarations must be signed by the builders and/or outfitters as well as the measurers.
4. Certified Measurers are entitled to a reasonable fee for measuring, but the Association is not responsible for its payment, and Certified Measurers are advised to collect their fee before filing this Form.
5. A Certified Measurer cannot measure a yacht in which he owns an interest except under duly appointed and authorized supervision.

Sec. D.

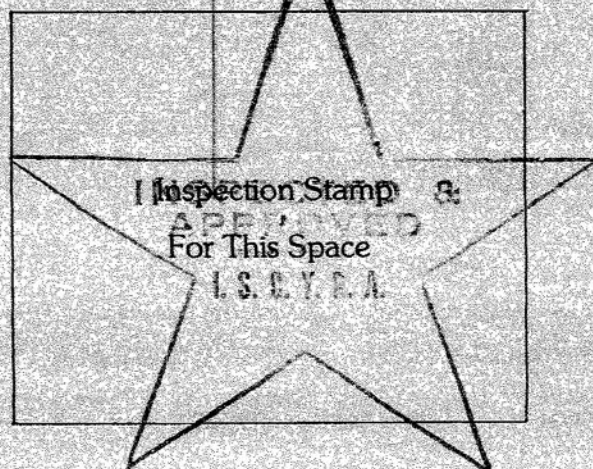
Conditions Under Which Certificate Is Issued

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 automatically revoked if any structural alterations are made or if not properly endorsed over to a new owner by former owner, or may be revoked at any time by order of the International Measurement Committee or the International Governing Committee of the International Star Class Yacht Racing Association.
2. This Certificate shall be binding upon all members, Star Fleets, Clubs, or organizations conducting races for the Star Class as such. 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, or unless the protesting party has submitted evidence to show there are reasonable grounds to suspect subsequent alterations or other justifiable causes. See By-Laws, Article VI.
3. This Certificate should be renewed when yacht is altered or sold. For renewal, send this Certificate and \$5.00 to International Measurement Committee, with notation as to any changes in Section A, or Section E.

4. Warning

Spars, position of keel, or anything else that is not an integral part of the hull, can easily be changed and should not be depended upon. These, as reported on original certificate, serve also as a protection to the purchaser of a new boat, but are subject to remeasurement as noted above.

NOTE: This space is reserved for International Measurement Committee use.



The International Measurement Committee, having examined all facts and figures certified to herein, finds that the yacht herein described conforms with the plans and specifications of the Star Class within the limitations of the measuring rules, and therefore, grants this Certificate to the said yacht subject to the conditions above set forth for so long as the owner or owners of the said yacht are members of the International Star Class Yacht Racing Association.

Signed

William V. Richards
Chairman International Measurement Committee.

Date

1978 March 3

SECTION E

2 HEIGHTS*

STATIONS	1	2	3	4	5	6	7	8	9	10
KEEL	486	354	241	163	113	95	120	182	277	390
CHINE			306			225		301		449
SIDE	818		792			748		719		682
BOT.ARC			OK			OK		OK		OK

* MEASURED FROM BASE LINE

3 HALF BREADTHS

STATIONS	1	3	6	8	STERN
DECK	205	605	860	788	484
CHINE	95	410	671	630	414

4 RUDDER FITS TEMPLATE? YES

THICKNESS 29 POST DIA 25.4

5 SKEG DEPTH 424

" LENGTH 940

" CONTOUR NONE

6 KEEL DIMENSIONS

K1	1159
K2	1214
K3	45
K4	1380
K5	23
K6	767
K7	222
K8	308
K9	802

BUILT BEFORE NEW TOLERANCE PUBLISHED

K10 - 946

I.S.C. ☆ Y.R.A.

(Metric Measurements Preferred)

1 HULL MEASUREMENTS

YACHT NO. 6224
 WOOD OR G.R.P. GRP
 L.O.A. 6930
 DIMENSION "A" 2360
 " "B" 1149
 " "C" 1321
 " "E" 2126
 " "P" 305
 " "R" 1963
 " "S" 8
 " "T" 15 1/2
 CHINE RADIUS OK? YES
 STEM RADIUS OK? YES
 SIDE FLATNESS OK? YES

9 SPARS & YACHT WEIGHT

Pt B TO UPPER MAST BAND 9652
 Pt B TO JIB STAY 6934
 BOOM LNG 4445
 MAST TIP WT. 15 1/2 LBS
 DIMENSION "O" 305
 YACHT WEIGHT 1465 LBS
 ADDED WEIGHT 15 LBS
 TOTAL WEIGHT 1480 LBS

7 WEIGHTS*

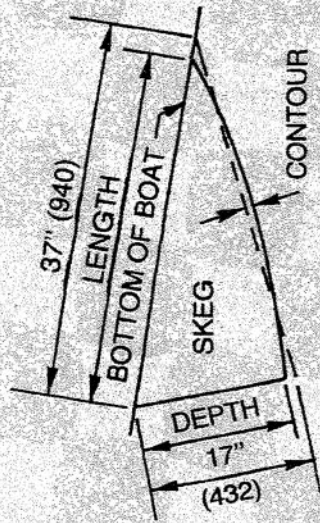
KEEL (WITH FINISH) YES
 HULL (AS MOLDED) 872 LBS
430 LBS. WITH SKEG

8 BUOYANCY 0.369

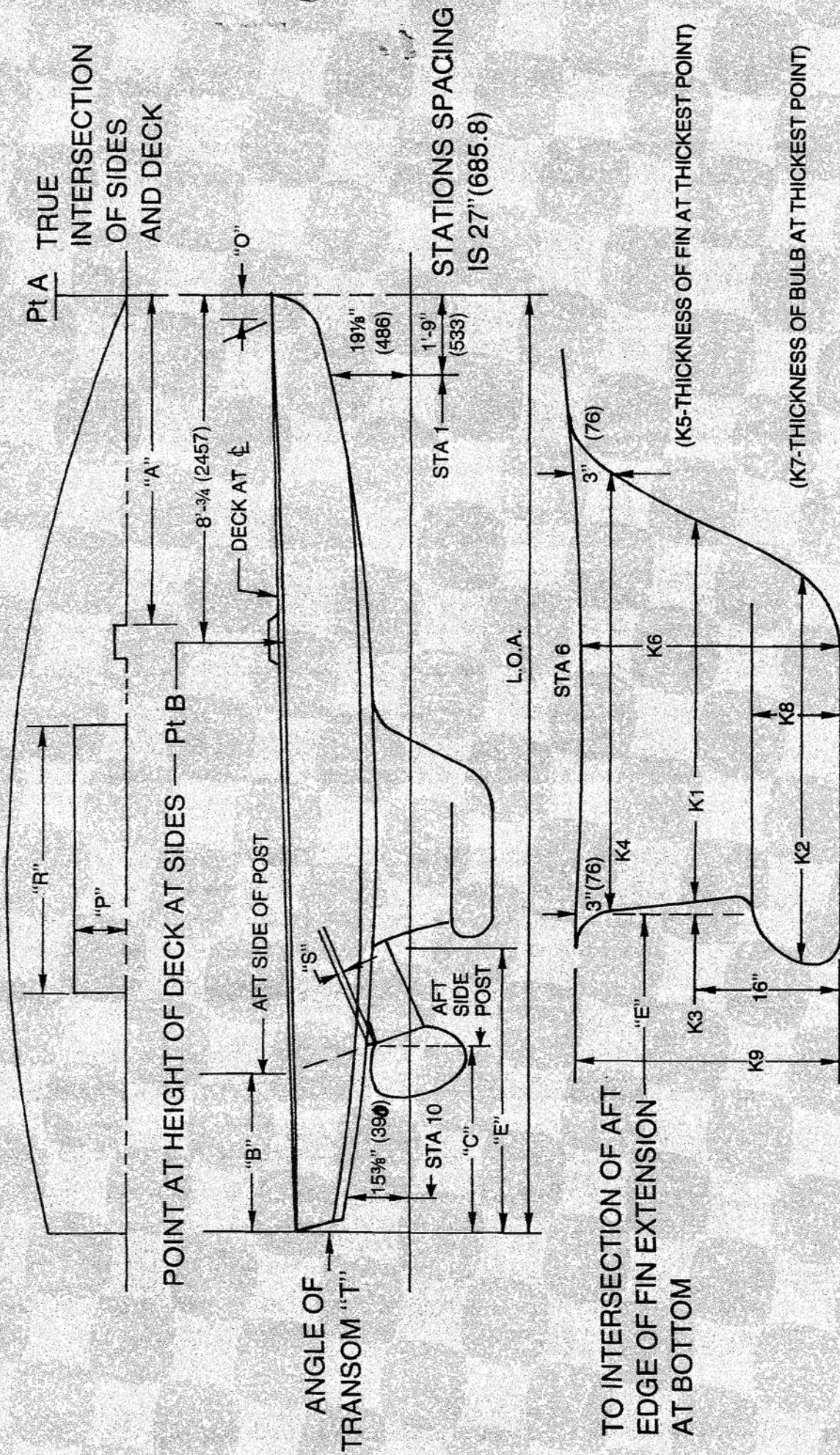
CONTAINED IN HULL YES

ADDITIONAL 0.70

☐ TANKS ☒ COMPARTMENTS
☒ CLOSED CELL FOAM
~~1.023 CUBIC METER~~
~~FORM BULKHEADS~~



* IS ISCYRA WEIGHT CERTIFICATE ATTACHED? YES



International Star Class Yacht Racing Association

Form J

(I.S.C.Y.R.A.)

Revised 1977 Jan 1.

OFFICIAL STAR CLASS MEASUREMENT CERTIFICATE

Sec.A. Description of Measured Yacht

1. Yacht's Number 6224
2. Number Molded Or Cut Into Keelson? YES
3. Yacht Name _____
4. Year Built 1977
5. Builder MILLER MARINE CONST. BAINBRIDGE ISL. WA.
6. Owner DURWARD KNOWLES
7. Address P.O. BOX N 1216 NASSAU, BAHAMAS
8. Fleet _____
9. Remarks _____

Sec.B. Declarations

1. To Be Signed By Builder:
I Certify that this yacht has been constructed in accordance with the current plans and specifications of the I.S.C.Y.R.A.
Print Name EARL MILLER
Signed [Signature] Date 12/20/77
2. To Be Signed By Outfitter: (If Other Than Builder)
I Certify that this yacht is, to the best of my knowledge, fitted out in accordance with the current plans and specifications of the I.S.C.Y.R.A.
Print Name EARL MILLER
Signed [Signature] Date 12/20/77
3. To Be Signed By Certified Star Class Measurer:
I Certify that I have measured the following items on this yacht, that the particulars on this form are correct, and that to the best of my knowledge this yacht complies with the rules of the I.S.C.Y.R.A. at present in force, unless noted in a letter, attached.
Items 1-8 Hull, Rudder, Skeg, Keel 2132 N. WINNIFRED ST. TACOMA, WA. 98406
Print Name DES SESSINGHAUS
Signed: D.F. Sessinghaus Date 12/20/77
Item 9 Spars and Yacht Weight (Fleet or Class Officer Accepted)
Print Name DES SESSINGHAUS
Signed: D.F. Sessinghaus Date 12/20/77
4. To Be Signed By Owner When Yacht Is Either Sold Or Structurally Altered.
I Certify that no alterations have been made to this yacht since original date of measurement, unless a rider describing measurements is attached.
Signed _____ Date _____
Sold To: _____ Of _____
Return This Certificate For Renewal - See Sec D.3.

International Star Class Yacht Racing Association

WEIGHT CERTIFICATE
(Metric Measurements Preferred)

A	Builder's Hull No.	<u>261277</u>
	Yacht No.	<u>6224</u>
B	Hull Less Skeg	<u>415</u> #
	Hull with Skeg	<u>430</u> #
C	Keel Less Finish	<u>865</u> #
	Keel with Finish	<u>872</u> #

I certify that the hull and keel weights shown were measured on a balance scale, or spring scale, or an electric load cell, (underline one) which has been calibrated within the last year to $\frac{1}{2}$ of 1%. Builder must fill in at least one item in each of A, B, and C, and sign

Date 12-19-77

Signed [Signature]

D	Yacht Weight with Rig	<u>1465</u> #
	Added Weight	<u>15</u> #
	(Describe type and location)	

I certify that the yacht weight shown is measured on a balance scale, or spring scale, or an electric load cell (Underline one) which has been calibrated within the last year to $\frac{1}{2}$ of 1%. Builder, Outfitter or Owner must sign

Date 12-19-77

Signed [Signature]

November 18, 1983

Andy Loree
17550 Sparks Drive
Spring Lake, MI 49456
Star #6224

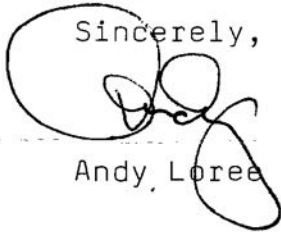
Doris Jirka, Executive Secretary
International Star Class
Yacht Racing Association
1545 Waukegan Road
Glenview, IL 60025

Dear Doris,

Enclosed is a copy of the back page of my boat's former owner's measurement certificate, which I had him sign to make the transaction completely "kosher". (He hadn't signed when I sent in for renewal)

Didn't know if you would want to add it to my file or not.....

Sincerely,

A handwritten signature in dark ink, appearing to be 'Andy Loree', written over the printed name.

Andy Loree

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

NOV 22 1983

CENTRAL OFFICE

OFFICIAL STAR CLASS MEASUREMENT CERTIFICATE**Sec.A. Description of Measured Yacht**

1. Yacht's Number 6224
2. Number Molded Or Cut Into Keelson? Yes
3. Yacht Name Old No. 7
4. Year Built 1977
5. Builder Miller Marine Const., Bainbridge Isl. WA.
6. Owner Frank O. Shoemaker
7. Address 9308 W. 122nd St., Palos Park, IL 60464
8. Fleet
9. Remarks

Sec.B. Declarations

1. To Be Signed By Builder:

I Certify that this yacht has been constructed in accordance with the current plans and specifications of the I.S.C.Y.R.A.

Print Name Earl Miller

Signed (Earl Miller) Date 12/20/77

2. To Be Signed By Outfitter: (If Other Than Builder)

I Certify that this yacht is, to the best of my knowledge, fitted out in accordance with the current plans and specifications of the I.S.C.Y.R.A.

Print Name Earl Miller

Signed (Earl Miller) Date 12/20/77

3. To Be Signed By Certified Star Class Measurer:

I Certify that I have measured the following items on this yacht, that the particulars on this form are correct, and that to the best of my knowledge this yacht complies with the rules of the I.S.C.Y.R.A. at present in force, unless noted in a letter, attached.

Items 1-8 Hull, Rudder, Skeg, Keel

Print Name Des Sessinghaus

Signed: (Des F. Sessinghaus) Date 12-20-77

Item 9 Spars and Yacht Weight (Fleet or Class Officer Accepted)

Print Name

Signed: Date

4. To Be Signed By Owner When Yacht Is Either Sold Or Structurally Altered.

I Certify that no alterations have been made to this yacht since original date of measurement, unless a rider describing measurements is attached.

Signed Frank O. Shoemaker Date October 18, 1983

Sold To: H. Andrew Loree, Jr. Of 17550 Sparks Dr., Spring Lake, MI

Return This Certificate For Renewal - See Sec D.3.

Copies 6224
6263

2132 North Winnifred St.
Tacoma, Wa. 98406
Feb 23, 1978

William V. Richards
International Star Class
Yacht Racing Association
1545 Waukegan Road
Glenview, Ill. 60025

I.S.C.Y.R.A.
FEB 27 1978
CENTRAL OFFICE

Sorry that I failed to list buoyancy data in the proper manner. I have corrected this on the certificates after figuring what volume is contained in the core material. Am enclosing a breakdown of this data, as you requested.

One keel is 5 mm too long at the top part (K4). Actually this was finished before the new tolerances were known to the builder. I should have made note of this, I now realize.

Since receiving your note concerning the bottom radius, I have checked the mold plug, as well as two new hulls for radius. I used the aluminum templates, and they fit OK. Of course at Station 6 one must not slide all the way into the keel casting flange area. Station 8 is a contact fit, and No 10 is somewhere between min. and max. radius.

Des Sessinghaus
measurer

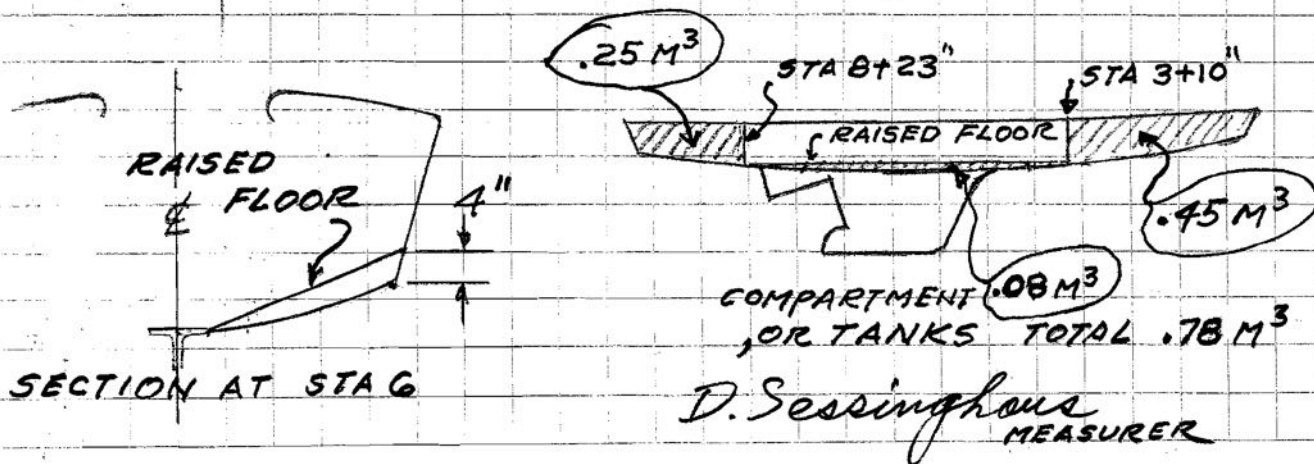
MILLER MARINE, BAINBRIDGE ISLAND, WASHINGTON

CLOSED CELL FOAM VOLUME (ALSO Balsa .082 M³)
CONTAINED IN SKIN SANDWICH

DESCRIPTION	AREA SQ. IN.	FOAM THICKNESS	CUBIC INCH	CUBIC METER
SIDES	9380	1/2" FOAM	4690	.076
BOTTOM BETWEEN STA 3+10" AND 8+23"	6700	(Balsa) 3/4"	5025	.082
BOTTOM REMAINDER AT BOW AND STERN	3276	1/2" FOAM	1638	.026
DECK MINUS A 4 1/2" STRIP AT EDGES	9200	3/8" FOAM	3450	.056
BULKHEAD STA. 3+10"	860	3/8" FOAM	322	.005
BULKHEAD STA. 8+23"	730	3/8" FOAM	273	.004
RAISED FLOOR	3700	3/8" FOAM	1387	.022
TRANSOM	336	1/2" FOAM	168	.002
TOTAL AREA	31182	TOTAL FOAM AND Balsa		.273

AVERAGE GLASS THICKNESS
INCLUDING BOTH SIDES → .1875"
OF SANDWICH.

TOTAL GLASS 5846 CU. IN = OR = .096 M³
TOTAL ALL .369 M³



D. Sessinghaus
MEASURER

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

Report from International Measurement Committee

Star No. 6224
Builder MILLER

Owner KNOWLES
Measurer SESSINGHAUS

~~The Measurement Certificate for this boat cannot be approved due to the following points which do not comply with the Specifications.~~

Re: Bottom arc.

Concern was expressed at Miami about the bottom arc esp left on your new shape.

Please advise the Measurement Committee whether the new shape meets the arc template limits given on new lines drawing (copy me)

The following action is suggested as indicated by check marks:

- ☒ The points in question must be remeasured by a Certified Measurer and the results submitted to the Measurement Committee.
- ☒ The points in question must be altered to conform to the Specifications and then remeasured by a Certified Measurer and submitted to the Measurement Committee.
- ☒ The boat must be rebuilt to conform to the Specifications and then completely remeasured by a Certified Measurer.

Date Feb 9 1978

WIR Chairman
International Measurement Committee

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

Report from International Measurement Committee

Star No. 6224
Builder MOLLER

Owner KNOWLES
Measurer SESSINGHAUS

The Measurement Certificate for this boat cannot be approved due to the following points which do not comply with the Specifications: Return certificate with changes.

PLEASE SEPARATE THE BUOYANCY (SEC 8) INTO CORE INCLUDED IN MOLD OR HULL AND DECK, AND ADDITIONAL VOLUME IN TANKS, COMPARTMENTS OR CLOSED CELL FOAM

THE MEASUREMENT COMMITTEE WOULD LIKE TO SEE YOUR CALCULATIONS ESP. FOR THE CORE IN THE LAY UP. THIS IS TO BE AT LEAST 0.34 m³ INCLUDING GLASS AND RESIN.

The following action is suggested as indicated by check marks:

- ☐ The points in question must be remeasured by a Certified Measurer and the results submitted to the Measurement Committee.
- ☐ The points in question must be altered to conform to the Specifications and then remeasured by a Certified Measurer and submitted to the Measurement Committee.
- ☐ The boat must be rebuilt to conform to the Specifications and then completely remeasured by a Certified Measurer.

Date FEB 9 1978

William V. Richards
Chairman
International Measurement Committee

CAUTION: K&H IS DRAIN OUTSIDE THE NEW MOWER
GUIDE LINES - PLEASE COMMENT FOR TECH. COMMITTEE
FOR APPROVAL.