

DATE July 7th 1959

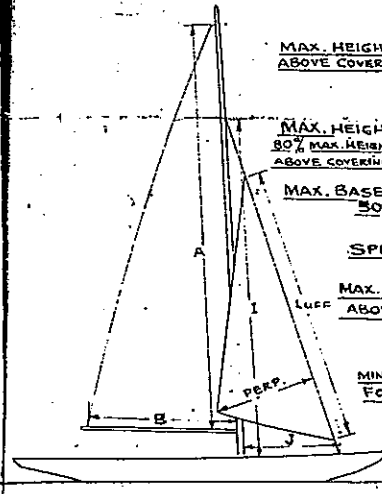
5.5 METRE YACHT VISION II

RATING FORMULA

$$.9 \left(\frac{L\sqrt{S}}{12\sqrt{D}} + \frac{L+\sqrt{S}}{4} \right)$$

DECLARED RATING 18.04

OVERALL LENGTH	32.10		
OVERHANG FORWARD TO L ₁	3.79	ADD	SUB.
OVERHANG AFT TO L ₁	4.50		
SUBTRACT TOTAL OVERHANG	8.29		
MEASURED LENGTH	23.81		
GIRTH AT BOW	2.41	SUB.	ADD
TWICE VERTICAL HEIGHT AT BOW	1.80		
BOW GIRTH DIFFERENCE (.54 MINIMUM)	0.61		
GIRTH AT STERN	6.15	SUB	
TWICE VERTICAL HEIGHT AT STERN	3.33		
STERN GIRTH DIFFERENCE	2.82		
1/3 " " " (.76 MINIMUM)	0.94		
LENGTH, L, FOR RATING FORMULA	25.36		
\sqrt{S}	17.66		
$12\sqrt{D}$	48.19		
$\frac{L\sqrt{S}}{12\sqrt{D}}$	9.29	ADD	
$\frac{L+\sqrt{S}}{4}$	10.75		
TOTAL OF MEASUREMENTS	20.04		
MULTIPLY BY 0.9 = RATING	18.04		



SAIL LIMITS

MAX. HEIGHT OF SAIL PLAN ABOVE COVERING BOARD LEVEL	=	36.40
ACTUAL	=	36.33
MAX. HEIGHT OF FORE TRIANGLE, 80% MAX. HEIGHT SAILPLAN ABOVE COVERING BOARD	=	29.12
ACTUAL = I	=	29.12
MAX. BASE OF FORE TRIANGLE 50% \sqrt{S}	=	8.83
ACTUAL = J	=	8.83
SPINNAKER BOOM	=	8.83
MAX. HEIGHT TOP OF BOOM ABOVE COVERING BOARD LEVEL	=	2.79
ACTUAL	=	2.17
MINIMUM HEADSAIL AREA FOR MEASUREMENT PURPOSES $= \frac{I \times J}{2} \times 80\%$		
	=	$\frac{29.12 \times 8.79}{2} \times 80\% = 102.84$

SAIL AREA FOR RATING

LARGEST HEADSAIL	$\frac{LUFF}{2} \times PERP = \frac{26.0}{2} \times 9.05 = 117.65$
MAINSAIL	$\frac{A \times B}{2} = \frac{34.16}{2} \times 11.37 = 194.2$
TOTAL AREA	$\frac{312 \text{ \¢}}{\text{MAXIMUM LIMIT}} = 311.85$
	$\frac{285 \text{ \¢}}{\text{MINIMUM LIMIT}} = 17.66$

HULL PARTICULARS

WEIGHT OF YACHT FLOATING TO MARKS	=	4147	LBS, ASCERTAINED BY WEIGHING
DISPLACEMENT IN CUBIC FEET OF 64 LBS	=	64.80	$\frac{1}{64}$ RULE MAX. 70-62
$\sqrt[3]{D}$ IN CU. FT.	=	4.016	RULE MIN. 60-27
$12\sqrt{D}$ FOR RATING FORMULA	=	48.19	
MEAN FREEBOARD AT BOW GIRTH STATION	=	2.28	
" " " MIDSHIP MARK	=	2.02	ADD
" " " STERN GIRTH STATION	=	1.93	
SUM OF FREEBOARDS	=	6.23	
$\div 3 =$ MEAN FREEBOARD	=	2.076	RULE MIN. 2.06
MAX. BEAM AT HALF HEIGHT OF FREEBOARD	=	6.26	RULE MIN. 6.23
MAX. TUMBLE HOME	=	0.01	RULE MAX. 2% BEAM = 0.12
MAX. DRAFT	=	4.40	RULE MAX. 4.43

WEIGHT OF MAST WITH ALL FIXED FITTINGS = 100 LBS. RULE MIN. 77 LBS.

C.G. OF MAST ABOVE COVERING BOARD LEVEL = 14.58 FEET

MINIMUM ALLOWED = 38% HEIGHT OF MAST ABOVE COVERING BOARD = 13.85 FEET

Positions of ballast abaft Mast

20lbs	1' 10"
10 "	2' 8"
10 "	3' 3"
INSIDE BALLAST WEIGHT 56 lbs.	6' 0"
FORE & AFT POSITION	6 " ' 8' 2"

MOVEMENT OF THIS BALLAST INVALIDATES THIS CERTIFICATE.

SIGNED *[Signature]*
 OFFICIAL MEASURER R.Y.A.
 DATE 7th. July 1959

L.A.J.