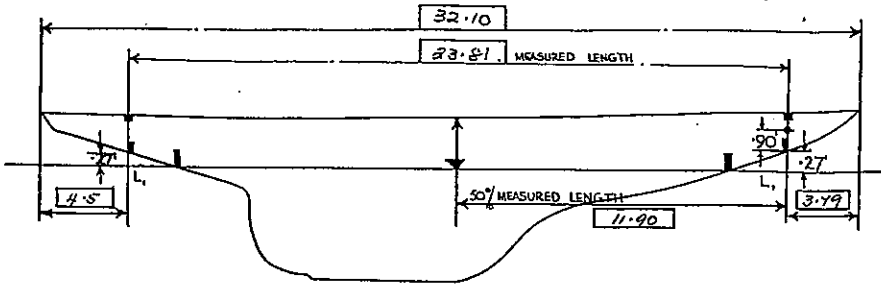


5.5. METRE CLASS MEASUREMENT FORM.

VISION IT No. 21

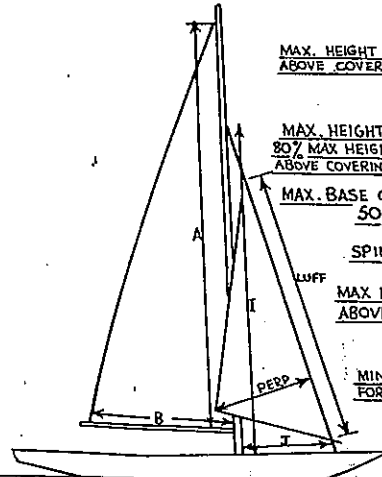


DECLARED RATING 18.04'

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	ADD
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		
$12\sqrt[3]{D}$	48.19		
$\frac{L\sqrt{S}}{12\sqrt[3]{D}}$	9.29	ADD	
$\frac{L+\sqrt{S}}{4}$	10.75		
TOTAL OF MEASUREMENTS	20.04		
MULTIPLY BY 0.9 = RATING	18.04		

RATING FORMULA

$$0.9 \left(\frac{L\sqrt{S}}{12\sqrt[3]{D}} + \frac{L+\sqrt{S}}{4} \right)$$



SAIL LIMITS

MAX. HEIGHT OF SAIL PLAN ABOVE COVERING BOARD LEVEL	=	36.40'
ACTUAL	=	36.40
MAX. HEIGHT OF FORE TRIANGLE, 80% MAX HEIGHT SAIL PLAN 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	=	2.79

MINIMUM HEADSAIL AREA FOR MEASUREMENT PURPOSES

$$= \frac{I \times J \times 80\%}{2}$$

$$= \frac{29.12 \times 8.83 \times 80\%}{2} = 102.84$$

SAIL AREA FOR RATING

LARGEST HEADSAIL	$\frac{LUFF}{2} \times PERP$	$= \frac{25.88}{2} \times 8.34 = 107.92$
MAINSAIL	$\frac{A \times B}{2}$	$= \frac{33.47 \times 12.19}{2} = 203.99$
TOTAL AREA		$107.92 + 203.99 = 311.91$
	\sqrt{S}	$= 17.66$

WEIGHT OF MAST WITH ALL FIXED FITTINGS = 88 LBS RULE MIN. 77 LBS
 C.G. OF MAST ABOVE COVERING BOARD LEVEL = 14.1 FEET
 MINIMUM ALLOWED = 38% HEIGHT OF MAST ABOVE COVERING BOARD = 14.25 FEET

HULL PARTICULARS

WEIGHT OF YACHT FLOATING TO MARKS	=	41.47	LBS. ASCERTAINED BY WEIGHING
DISPLACEMENT IN CUBIC FEET OF 64 LBS	=	64.80	§ (RULE MAX 70-62 / RULE MIN 60-27)
$\sqrt[3]{D}$ IN CU. FT.	=	4.016	
$12\sqrt[3]{D}$ FOR RATING FORMULA	=	48.19	
MEAN FREEBOARD AT BOW GIRTH STATION	=	2.28	ADD
" " " MIDSHIP MARK	=	2.02	
" " " STERN GIRTH STATION	=	1.93	
SUM OF FREEBOARDS	=	6.23	
$\div 3$ = MEAN FREEBOARD	=	2.07	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'
MIN WIDTH OF KEEL AT MAX. SECTION	=		RULE MIN 150 mm (5ft)

INSIDE BALLAST WEIGHT 30.65.
 FORE & AFT POSITION J: 50 feet abaft the mast.
 MOVEMENT OF THIS BALLAST INVALIDATES THIS CERTIFICATE.

(To be signed by (A) designer or builder and (B) owner or his representative).
 I declare that the particulars given on this certificate are correct at this date.
 Signed..... (A)
 Date.....
 Signed... C.N.E. CURREY..... (B)
 Date... 16.3.1960.
 The designer or builder is only responsible for measurements at the date they are taken.