

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER)

Received
 Index No.
 Govt. Copy
 Owners CII

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
STAN. WOOLAWAY.	184201	BRITISH BARNSTAPLE	278	1955.	
Moulded Dimensions: Length 131.33' Breadth 26.08' Depth 8.54'					Date of Survey 12.1.56

Freeboard Length
 Moulded displacement at moulded draught = 85 per cent. of moulded depth 530 tons
 (excluding bossing)
 Coefficient of fineness for use with Tables 446

Surveyor's Signature

Particulars of Classification + 100 A1 HOPPER
 DRAGONEL FOR SERVICE IN BRISTOL
 CHANNEL.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 8.54	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B) 26.08
Stringer plate 02	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 6.26$
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	(8.76 - 8.54) / 0.20 = .20"	Ship's Round of Beam EQUIV. = 4.73
Depth for Freeboard (D) = 8.56	If restricted by superstructures YES - NIL.	Difference 1.53.
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{1.53 \times 44.78}{4} = +1.7$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed	39.42	39.42	2.97	2.97/3.209	36.48
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
Fore enclosed	24.63	24.63	1.65	1.65/6.00	6.97
" overhang OPEN	8.21	8.21	6.90	-	8.21
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	72.26	72.26			51.46

Standard Height of Superstructure 6.00'
 " " R.Q.D. 3.209'
 Deduction for complete superstructure 19.13"
 Percentage covered $\frac{S}{L} = \frac{72.26}{131.33} = 55.02$
 " " $\frac{S_1}{L} = \frac{51.46}{131.33} = 39.18$
 Percentage from Table, Line A. 22.80
 (corrected for absence of forecastle (if required)) -
 Percentage from Table, Line B. -
 (corrected for absence of forecastle (if required)) -
 Interpolation for bridge less than .2L (if required) -
 Deduction = 19.13 x 22.80 = 4.36.

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	23.13	1	23.13	23.46	23.46	1	23.46
1/4 L from A.P.	10.29	4	41.16	10.08	10.08	4	40.32
3/8 L "	2.54	2	5.08	2.36	2.36	2	4.72
Amidships	0	4	0	0	0	4	0
3/8 L from F.P.	5.09	2	10.18	5.67	5.67	2	11.34
1/4 L "	20.59	4	82.36	22.84	22.84	4	91.36
F.P.	46.24	1	46.24	45.79	45.79	1	45.79
Total			208.18				216.99

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{8.81}{18} \left(\frac{.75 - .2751}{2} \right) = -.23$
 If limited on account of midship superstructure. YES. NIL.

Mean actual sheer aft = Deficient .9864.
 Mean standard sheer aft =

Mean actual sheer forward = EXCESS
 Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
 " " aft of " = NIL.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Ft.
 Depth to Freeboard Deck = 8.56
 Summer freeboard = .79
 Moulded draught (d) = 7.77
 Keel allowance =
 Extreme draught =
 Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches = 1.94 = 2"

Addition for Winter North Atlantic Freeboard (if required) = NOT ASSIGNED.

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 567.5$
 Tons per inch immersion at summer load water line
 $T = 7.20$
 Deduction = $\frac{\Delta}{40 T}$ inches
 = 1.97
 = 2"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{746 + .68}{1.36} = \frac{1.426}{1.36}$

Depth Correction
 Deduction for superstructures
 Sheer correction
 Round of Beam correction
 Correction for Thickness of Deck amidships
 Other corrections, scantlings, etc.

Summer Freeboard = 9.61

SUMMER FREEBOARD Amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc NOT ASSIGNED
 Fresh Water Line " " NOT ASSIGNED.
 Tropical Line " " NOT ASSIGNED.
 Winter Line below " " 2"
 Winter North Atlantic Line " " NOT ASSIGNED.
 Tropical Fresh Water Freeboard NOT ASSIGNED.
 Fresh Water " " 0'-7 1/2"
 Tropical " " NOT ASSIGNED
 Winter " " 0'-11 1/2"
 Winter North Atlantic " " NOT ASSIGNED.