

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 C11

Ship's Name Scheepswerf "Appingedam"	Official Number Yard No. 178	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 47.65 M. Breadth 8.50 M. Depth 3.589 top of keel Freeboard Length 47.85 to cr. of rudderstock Moulded displacement at moulded draught = 85 per cent. of moulded depth 872 M ³ (excluding bossing) Coefficient of fineness for use with Tables 0.703					Date of Survey Surveyor's Signature <i>W. J. J. J.</i> Particulars of Classification 100A1 (Contemplated)

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 3.589 Stringer plate ... 0.009 Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 3.5989	(a) Where D is greater than Table depth (D-Table depth) R = $8.33(3.598 - 3.19)12.083 = +41 \text{ mm.}$ (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	Moulded Breadth (B) 8.50 Standard Round of Beam = $\frac{B \times B}{50} = 170$ Ship's Round of Beam = 200 Difference + 30 Restricted to Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{30}{4} \times .5632 = 4.21 \text{ mm.}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	11.75	11.75	2.05		11.750
" overhang					
R.Q.D. enclosed	2.20	2.20	1.00	1000/1028	2.155
" overhang					2.140
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed	6.95	6.95	2.00 mean		6.950
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					20.840
" " forward					20.855
Total	20.90	20.90			

Standard Height of Superstructure 1830
 " " R.Q.D. 1028
 Deduction for complete superstructure 552
 Percentage covered $\frac{S}{L} =$ } 43.68
 " " $\frac{S_1}{L} =$ }
 " " $\frac{E}{L} =$ 43.58 43.55
 Percentage from Table, Line A. 26.54 26.52
 (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 = .2654 x 552 = 147 mm.

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	653	1	653	595	815	1	815
1/4 L from A.P.	290	4	1160	180	203	4	812
1/2 L	73	2	146	10	10	2	20
Amidships	0	4	0	0	0	4	0
3/4 L from F.P.	145	2	290	180	180	2	360
1/4 L	580	4	2320	560	560	4	2240
F.P.	1305	1	1305	1345	1345	1	1345
Total			5874				5592

Mean actual sheer aft = $> .75$ standard
 Mean standard sheer aft =

Mean actual sheer forward = > 1.0
 Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
 L

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{282}{18} (.75 - .2184) = +8 \text{ mm.}$
 If limited on account of midship superstructure.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 3.5989
 Summer freeboard = .32
 Moulded draught (d) = 3.2789
 Keel allowance =
 Extreme draught =
 Deduction for Tropical freeboard and addition for =
 Winter freeboard = $\frac{d}{4}$ inches =
 Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

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

TABULAR FREEBOARD

Correction for coefficient $\frac{.703 + .68}{1.36} = \frac{1.383}{1.36}$

Depth Correction	41	-
Deduction for superstructures	-	1476
Sheer correction	8	-
Round of Beam correction	-	4
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	49	150

418 mm.
425 mm.

Summer Freeboard = 323 mm.

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

Tropical Fresh Water Line above Centre of Disc	...
Fresh Water Line	"
Tropical Line	"
Winter Line	below
Winter North Atlantic Line	"

Tropical Fresh Water Freeboard	...
Fresh Water	"
Tropical	"
Winter	"
Winter North Atlantic	"

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Actual height of poop = 2050 ✓
 Standard " " " = 1830 ✓
 Excess 220 ✓

29.150
 11.750
 6.950
 47.850 ✓

Sheer at A.P.P. = 595 ✓ + 220 ✓ = 815 ✓
 " " 1/6 L = 180 ✓ + 220 ✓ x $\left(\frac{3.775}{11.75}\right)^2 = 203. ✓$

647.85
 7.975
 11.750
 3.775

Sheers aft. 66.88 % standard.

Actual sheers X 2/3 L 1/3 L FP.

Trade of ship

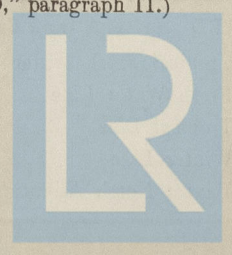
Names of sister ships

Builder's name and yard number

Owners

Fee £ : :

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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