

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 de Haan & Oerlemans, Yard no.274	Official Number	Nationality and Port of Registry British	Gross Tonnage	Date of Build	Port of Survey
cr. of rudder stock Moulded Dimensions: Length 200' ✓ Breadth 33' ✓ Depth 15.0' ✓ Freeboard Length Moulded displacement at moulded draught = 85 per cent. of moulded depth 1695 tons (excluding bossing) Coefficient of fineness for use with Tables .701 ✓					Date of Survey Surveyor's Signature <i>W. E. L. L.</i> Particulars of Classification 100A1 (contemplated)

DEPTH FOR FREEBOARD (D). Moulded depth ... 15.0' ✓ Stringer plate04' ✓ Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 15.1' ✓	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = (15.11-13.33) 1.538 = (+) 2.74" (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 33.0' ✓ Standard Round of Beam = $\frac{B \times 12}{50} = 7.92"$ ✓ Ship's Round of Beam = 7.87" Difference (-) .05" Restricted to Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.05}{4} \times .295 = \text{nil}$
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DEDUCTION FOR SUPERSTRUCTURES.

No overhang
 shape
 in the
 plan

	Mean Covered Length (S)	Equivalent Enclosed Length (S)	Height	Height Correction	Effective Length (E)
Poop enclosed	51.38	51.38	6.99	--	51.38
" overhang	5.70	2.85	3.646	3.646	2.85
R.Q.D. enclosed	60.90	63.75	3.655	3.667	63.54
" overhang		66.60	3.646	3.667	66.22
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed	21.13	21.13	6.99	--	21.13
" overhang	3.80	1.90			1.90
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	142.91	141.01			140.63
					140.80

Standard Height of Superstructure 6.0' ✓
 " " R.Q.D. 3.667' ✓
 Deduction for complete superstructure 26" ✓
 Percentage covered $\frac{S}{L} = 71.45$
 " " $\frac{S_1}{L} = 70.50$
 " " $\frac{E}{L} = 70.40^{32}$
 Percentage from Table, Line A. & B 63.49³⁹
 (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 = .6349 x 26 = 16.51"
 .6339 16.48"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{4}$ L from A.P.		4					4		
$\frac{3}{4}$ L		2					2		
Amidships	○	4	○	○	○	○	4	○	○
$\frac{3}{4}$ L from F.P.		2					2		
$\frac{1}{4}$ L		4					4		
F.P.		1					1		
Total									

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

Mean actual sheer aft = 1.-
 Mean standard sheer aft = 1.-

Mean actual sheer forward = 1.-
 Mean standard sheer forward = 1.-

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

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

R.Q.
 Depth to Base of Deck 18.77
 Summer freeboard 4.46

4.362 Mr. Moulded draught (d) = 14.31' ✓
 Keel allowance = 1.31'
 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 $\frac{.701 + .68}{1.36} = \frac{1.381}{1.36}$

	+	-
Depth Correction	2.74	16.48
Deduction for superstructures	5	16.51
Sheer correction	--	--
Round of Beam correction	43.75	--
Correction for Thickness of Deck amidships	44.05	--
Other corrections, scantlings, etc.	46.50	16.48
	46.79	16.51

Summer Freeboard = 53.74"

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

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