

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 37815
(For London Office only).

Ship's Name "Vic 55" Official Number 166641 Nationality and Port of Registry British Gainsby Gross Tonnage 146.94 Date of Build 1944

Port of Survey Shull

Date of Survey Whilst building

Surveyor's Signature F. J. Palmer

Particulars of Classification 100A.1. (COASTAL SERVICES)

Moulded Dimensions: Length 80.35 Breadth 20.00 Depth 9.50

Moulded displacement at moulded draught = 85 per cent. of moulded depth 257 tons

Coefficient of fineness for use with Tables .694

Depth for Freeboard (D).		Depth correction.	Round of Beam correction.
Moulded depth	9.50	(a) Where D is greater than Table depth (D - Table depth) R = (9.53 - 5.35) × .617 = 2.58 4.18	Moulded Breadth (B) <u>20.00</u>
Stringer plate	.03	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 4.80$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$			Ship's Round of Beam = <u>5.00</u> <u>NIL</u> <u>ONLY</u>
Depth for Freeboard (D) =	9.53	If restricted by superstructures	Difference <u>4.8</u>
			Restricted to
			Correction = $\frac{\text{Diff} \times (1 - \frac{S_1}{L})}{4} = \frac{4.8}{4} \times .5086 = 1.61$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	6.50	6.50	7.25	-	6.50
.. overhang ...	NONE				
R.Q.D. enclosed ...	19.25	19.25	3.00	-	19.25
.. overhang ...	NONE				
Bridge enclosed ...					
.. overhang aft ...					
.. overhang forward ...					
F'cle enclosed ...	13.75	13.68	7.0	-	13.68
.. overhang ...	NONE				
Trunk aft ...					
.. forward ...					
Tonnage opening aft ...					
.. forward ...					
Total ...	39.43	39.43			39.43

Standard Height of Superstructure 6.00

" " R.Q.D. 3.00

Deduction for complete superstructure 14.025

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$ } 49.14

" " $\frac{E}{L} =$

Percentage from Table, Line A. 31.27

(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 = $14.025 \times .3127 = 4.39$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	18.025	1		18.02			1		18.02
$\frac{1}{2}$ L from A.P. ...	8.02	4		32.08			4		32.08
$\frac{2}{8}$ L " ...	1.98	2		3.96			2		3.96
Amidships ...	-	4		-			4		NIL
$\frac{3}{8}$ L from F.P. ...	3.965	2		7.93			2		7.93
$\frac{1}{2}$ L " ...	16.04	4		64.16			4		64.16
F.P. ...	36.05	1		36.05			1		36.05
Total ...				162.20					NIL

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

" " aft of " =

Length of enclosed superstructure forward of amidships =

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{162.20}{18} (.75 - .2457) = 5.043$

If limited on account of midship superstructure. ✓

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.

Depth to Freeboard Deck = 9.53

Summer freeboard = .96

Moulded draught (d) = 8.57

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = $2.14 = 2\frac{1}{4}$

Addition for Winter North Atlantic Freeboard (if required)=

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 277$

Tons per inch immersion at summer load water line

T = 3.26

Deduction = $\frac{\Delta}{40T}$ inches = $2.124 = 2$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.694 + .68}{1.36} = \frac{1.374}{1.36}$

	+	-
Depth Correction	2.58	-
Deduction for superstructures	-	4.39
Sheer correction	4.54	-
Round of Beam correction	-	.61
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	7.73	4.39

Summer Freeboard = 11.45

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	" "
Tropical Line	" "
Winter Line	below
Winter North Atlantic Line	" "

Tropical Fresh Water Freeboard	0' - 11 1/2"
Fresh Water	0' - 9 1/2"
Tropical	1' - 1 3/4"
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.

Trade of ship COASTAL SERVICES - LIMITS TO BE DEFINED

Names of sister ships "VIC 54" SAME BUILDERS YARD No 1552.

Builder's name and yard number Messrs J. S. Watson (Grainborough) Ltd, YARD No 1553.

Owners THE ADMIRALTY (MESSRS J. BARRACLOUGH (GY) LTD, GRIMSBY, MGRS)

Fee £ 4-0-0



© 2021

Lloyd's Register
Foundation