

Amended

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

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

Received

Index No.

Govt. Copy

Owners C11

Ship's Name 'BRITISH ENDURANCE'	Official Number	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 8414 8406	Date of Build 1936-10	Port of Survey
Moulded Dimensions: Length 464.21 / Breadth 61.75 / Depth 34.04 /					Date of Survey 2-12-55
Freeboard Length 464.21					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 18198 / tons					Particulars of Classification + 100 A1
Coefficient of fineness for use with Tables .77 /					CP-1B.

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	34.04 /	(a) Where D is greater than Table depth (D-Table depth) R = (34.11 - 30.94) 3 = + 9.51 /		Moulded Breadth (B) ...	61.75 /
Stringer plate82 /	3.7 /		Standard Round of Beam = $\frac{B \times 12}{50}$ =	14.82 /
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$.07 /	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam =	15 /
Depth for Freeboard (D) =	34.11 /	If restricted by superstructures		Difference	.18 /
				Restricted to	
				Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right)$ =	.18 / $\times .5732 = -.03$

DEDUCTION FOR SUPERSTRUCTURES.				
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Effective Length (E)
Poop enclosed	103.00 /	103.00 /	8.0 /	103.00 /
" overhang	3.50 /	1.75 /		1.75 /
R.Q.D. enclosed				
" overhang				
Bridge enclosed	36.00 /	36.00 /	8.0 /	36.00 /
" overhang aft	3.00 /	2.25 /		2.25 /
" overhang forward ...	3.50 /	1.75 /		1.75 /
F'cle enclosed EQUIV. ...	53.35 /	53.35 /	8.0 /	53.35 /
" overhang				
Trunk aft				
" forward				
Tonnage opening aft ...				
" " forward				
Total	202.35 /	198.10 /		198.10 /

Standard Height of Superstructure **7.50** /

" " R.Q.D. **1** /

Deduction for complete superstructure **42.00** /

Percentage covered $\frac{S}{L} =$ **43.59** /

" " $\frac{S_1}{L} =$ **42.68** /

" " $\frac{E}{L} =$ **42.68** /

Percentage from Table, Line A, TANKER **33.68** /

(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 = **42.00** \times **.3368** = **14.15** /

SHEER CORRECTION.							
Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S
A.P.	56.42 /	1 /	56.42 /	38.00 /	38.00 /	1 /	38.00 /
$\frac{1}{4}$ L from A.P.	25.105 /	4 /	100.42 /	21.87 /	21.87 /	4 /	87.48 /
$\frac{2}{4}$ L "	6.205 /	2 /	12.41 /	6.00 /	6.00 /	2 /	12.00 /
Amidships	0 /	4 /	0 /	0 /	0 /	4 /	0 /
$\frac{3}{4}$ L from F.P.	12.41 /	2 /	24.82 /	12.25 /	12.25 /	2 /	24.50 /
$\frac{1}{4}$ L "	50.21 /	4 /	200.84 /	50.12 /	50.12 /	4 /	200.48 /
F.P.	112.84 /	1 /	112.84 /	113.00 /	113.00 /	1 /	113.00 /
Total			507.75 /				475.46 /

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 " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{32.29}{18} (.75 - .279) = 1.0$ /

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 34.11 / Summer freeboard = 6.60 / Moulded draught (d) = 27.42 / Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for = Winter freeboard = $\frac{d}{4}$ inches = 6.85 = 6$\frac{3}{4}$ / Addition for Winter North Atlantic Freeboard (if required) = 6.85 + 4.64 = 11.49 = 11$\frac{1}{2}$ /	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 = 7$\frac{1}{2}$ /	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.77 + .68}{1.36}$ Depth Correction 9.51 / Deduction for superstructures 14.15 / Sheer correction 1.00 / Round of Beam correction03 / Correction for Thickness of Deck amidships Other corrections, scantlings, etc. Summer Freeboard = 80.33 /
--	--	---

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

Tropical Fresh Water Line above Centre of Disc ...	1.4$\frac{1}{4}$ /	Tropical Fresh Water Freeboard ...	5$\frac{1}{2}$ /
Fresh Water Line " " ...	7$\frac{1}{2}$ /	Fresh Water " " ...	6$\frac{1}{2}$ /
Tropical Line " " ...	6$\frac{3}{4}$ /	Tropical " " ...	6$\frac{1}{2}$ /
Winter Line below " " ...	6$\frac{3}{4}$ /	Winter " " ...	7$\frac{1}{2}$ /
Winter North Atlantic Line " " ...	11$\frac{1}{2}$ /	Winter North Atlantic " " ...	7$\frac{1}{2}$ /

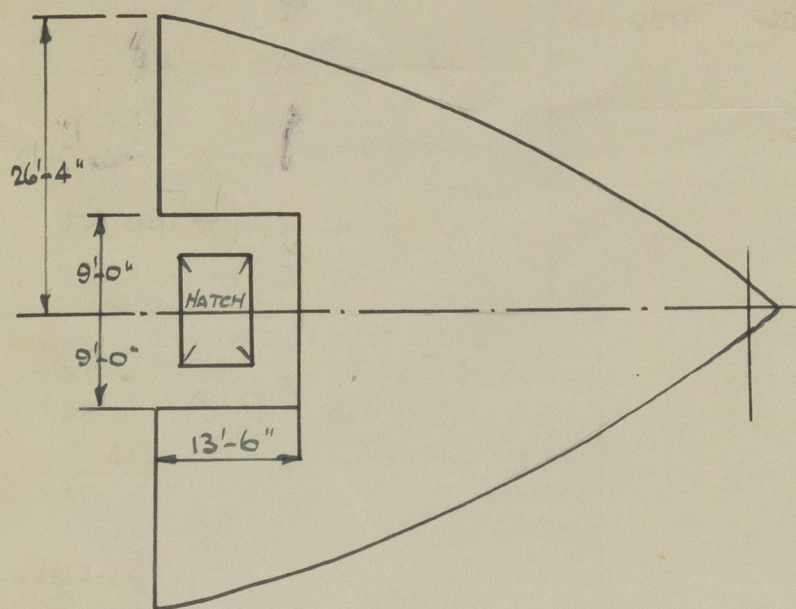
5m, 0.55. T.

003679-003686-0142

2020

Lloyd's Register Foundation

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.



FORECASTLE :-

$$\frac{13.5 \times 9}{26.33} = 4.615$$

$$\text{TOTAL LENGTH ENCLOSED} = 57.96 - 4.61 = 53.35$$

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.)



© 2020

Lloyd's Register
Foundation