

AMENDED

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER
SURVEYS FOR FREEBOARD
(COMPUTATION FOR ~~STEAMER~~, ~~SAILING SHIP~~, TANKER)

For LONDON OFFICE ONLY

Received
Index No.
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Owners C11

Ship's Name 'BRITISH RESOLUTION'	Official Number 165539	Nationality and Port of Registry British London	Gross Tonnage 8298	Date of Build 8.37	Port of Survey
Moulded Dimensions: Length 464.21 Breadth 61.75 Depth 34.04					Date of Survey 10-4-56
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 18198 tons					Particulars of Classification + 100A1
Coefficient of fineness for use with Tables .77					'Carrying Petroleum in Bulk'

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 plate07	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ 14.82
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 15
Depth for Freeboard (D) = 34.11		Difference .18
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S}{L} \right) =$.18 x .5732 = .103

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	103.00	103.00	8.0' min.	—	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 <i>equivalent</i> ...	53.38	53.38	8.0'		53.38
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...	202.38	198.13			198.13

Standard Height of Superstructure	7.5
„ „ R.Q.D.	—
Deduction for complete superstructure	42.00
Percentage covered $\frac{S}{L} =$	43.59
„ „ $\frac{S_1}{L} =$	42.68
„ „ $\frac{E}{L} =$	
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 M	Product
A.P. ...	56.42	1	56.42	38.00	38.00	1	38.00
$\frac{1}{2}$ L from A.P. ...	25.105	4	100.42	21.87	21.87	4	87.48
$\frac{1}{4}$ 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
$\frac{1}{2}$ 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

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{32.29}{18} (.75 - .2179) = 1.00$
If limited on account of midship superstructure.

Mean actual sheer aft = *deficient*
Mean standard sheer aft =

Mean actual sheer forward = **99.8%**
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **L**
„ „ aft of „ = **Tankers.**

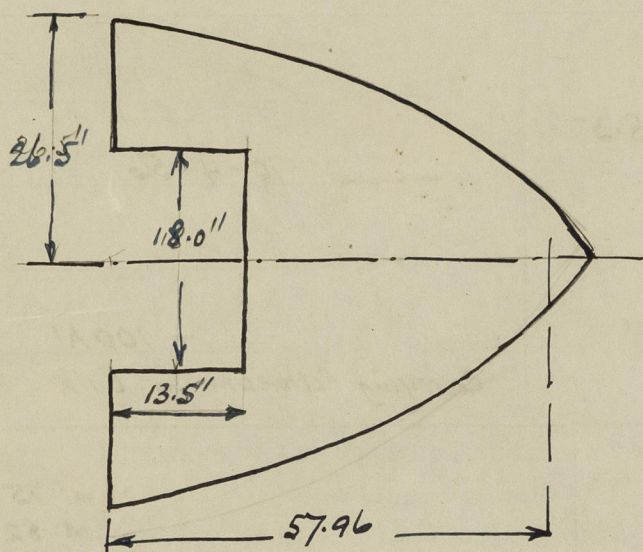
Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	78.75
Depth to Freeboard Deck = 34.11	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.77 + .68}{1.36} =$ 1.45/1.36	84.00
Summer freeboard = 6.69	$\Delta =$	Depth Correction ... 9.51	
Moulded draught (d) = 27.42	Tons per inch immersion at summer load water line	Deduction for superstructures ... 14.15	
Keel allowance =	T =	Sheer correction ... 1.00	
Extreme draught =	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction03	
Deduction for Tropical freeboard and addition for =	= 7 1/2	Correction for Thickness of Deck amidships ...	
Winter freeboard = $\frac{d}{4}$ inches = 6.85 = 6 3/4		Other corrections, scantlings, etc. ...	
Addition for Winter North Atlantic Freeboard (if required) = 6.85 + 4.64 = 11.49 = 11 1/2			
			10.58 14.18 -3.68
			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 ...	14 1/4
Fresh Water Line „ „ ...	7 1/2
Tropical Line „ „ ...	6 3/4
Winter Line below „ „ ...	6 3/4
Winter North Atlantic Line „ „ ...	11 1/2

Tropical Fresh Water Freeboard	5' - 8 1/4"
Fresh Water „	5' - 6"
Tropical „	6' - 0 3/4"
Winter „	6' - 1 1/2"
Winter North Atlantic „	7' - 7 3/4"

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.



Equivalent length.

$$\begin{aligned}
 \text{Length at side} &= 57.96 \\
 \text{less } \frac{9 \times 13.5}{26.5} &= 4.58 \\
 \hline
 &53.38
 \end{aligned}$$

Trade of ship

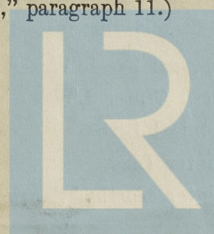
Names of sister ships

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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