

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "BRITISH PROGRESS"	Official Number 182916	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 8577	Date of Build 1948	Port of Survey GLASGOW
Moulded Dimensions: Length 464'0" Breadth 61'5" Depth 34'0" TO CENTRE OF RUDDER STOCK.					Date of Survey WHILST BUILDING
Moulded displacement at moulded draught = 85 per cent. of moulded depth 18330 tons					Surveyor's Signature Geo. Cockburn
Coefficient of fineness for use with Tables .778					Particulars of Classification +100 A1. CARRYING PETROLEUM IN BULK. (CONTEMPLATED)

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 34'0"	(a) Where D is greater than Table depth (D - Table depth) R = (34'06" - 30'23") 3 = + 3'39"	Moulded Breadth (B) 61'5"
Stringer plate .74"	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ 14'76"
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam $14 \frac{3}{4}" =$ 14'75"
Depth for Freeboard (D) = 34'06"		Difference + .01"
		Restricted to ✓
		Correction = $\frac{\text{Diff}^*}{4} \times (1 - \frac{S_1}{L}) = \frac{.01}{4} \times .5834 = \text{NIL}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed (SEE OVER)	98'09"	98'09"	8'0"	✓	98'09"
" overhang ...	1'83"	.91"			.91"
R.Q.D. enclosed					
" overhang					
Bridge enclosed (SEE OVER)	42'50"	42'50"	8'0"	✓	42'50"
" overhang aft ...	3'50"	2'63"			2'63"
" overhang forward	.50"	.25"			.25"
F'cle enclosed (SEE OVER)	48'91"	48'91"	8'0"	✓	48'91"
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward					
Total ...	195'33"	193'29"			193'29"

Standard Height of Superstructure **7'50"**

" " R.Q.D. **✓**

Deduction for complete superstructure **42"**

Percentage covered $\frac{S}{L} =$ **42.10**

" " $\frac{S_1}{L} =$ **41.66**

Percentage from Table, Line A. Tanker **32.66**

(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 x .3266 = - 13'72"**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate INCHES	Effective Ordinate	S	M	Product
A.P. ...	56'40"	1		56'40"	57'00"	57'00"	1		57'00"
$\frac{1}{2}$ L from A.P. ...	25'10"	4		100'40"	25'33"	25'33"	4		101'32"
$\frac{3}{4}$ L " ...	6'205"	2		12'41"	6'33"	6'33"	2		12'66"
Amidships ...	-	4		-	0	-	4		-
$\frac{3}{4}$ L from F.P. ...	12'41"	2		24'82"	12'67"	12'67"	2		25'34"
$\frac{1}{2}$ L " ...	50'20"	4		200'80"	50'67"	50'67"	4		202'68"
F.P. ...	112'80"	1		112'80"	114'00"	114'00"	1		114'00"
Total ...				507'63"					513'00"

Mean actual sheer aft = **Excess**

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **Tanker**

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{5'37"}{18} \left(.75 - \frac{2105}{2 \times 193.29} \right) = - .16"$

If limited on account of midship superstructure. **✓**

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

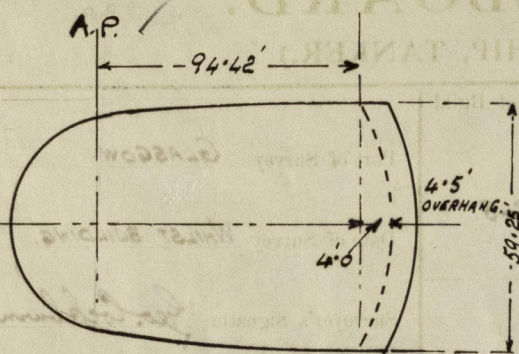
Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Fresh Deck (if required)	78'70"
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.778 + .68}{1.36} = 1.458$	84'37"
Depth to Freeboard Deck = 34'06"	$\Delta = 17363$	Depth Correction ... 9'39"	
Summer freeboard = 6'67"	Tons per inch immersion at summer load water line	Deduction for superstructures ... 13'72"	
Moulded draught (d) = 27'39"	$T = 58'24$	Sheer correction16"	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6'85" = 6'4"	Deduction = $\frac{\Delta}{40T}$ inches = 7'45" = 7'2"	Round of Beam correction ... 9'8'48"	
Addition for Winter North Atlantic Freeboard (if required) = 6'85" + 4'64" = 11'49" = 11'2"	DRAFT (EXT) DISP (EXT) T.P.I.	Correction for Thickness of Deck amidships ...	
	27'6" 17385 58'25	Other corrections, scantlings, etc. ...	
	28'0" 17736 58'42		
	28'6" 18086 58'60		
		Summer Freeboard = 79'88"	

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

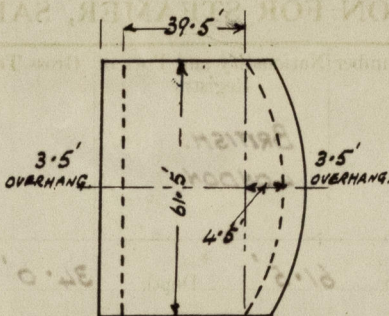
Tropical Fresh Water Line above Centre of Disc ... 14'1/4"	Tropical Fresh Water Freeboard ... 5'53/4"
Fresh Water Line " " ... 7'1/2"	Fresh Water " " ... 6'0 1/2"
Tropical Line " " ... 6'3/4"	Tropical " " ... 6'1 1/4"
Winter Line below " " ... 6'3/4"	Winter " " ... 7'2 3/4"
Winter North Atlantic Line " " ... 11'1/2"	Winter North Atlantic " " ... 7'7 1/2"

British Progress

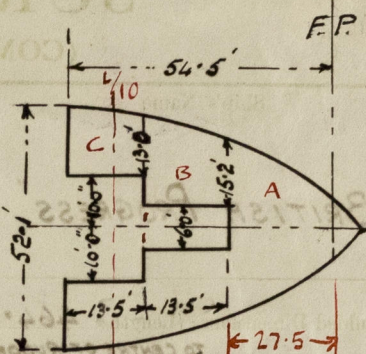
A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.



POOP



BRIDGE



FORECASTLE

$$\begin{aligned} \text{Poop at side} &= 95.42' / \\ \frac{2}{3} \times 4 &= 2.67' / \\ \text{Equin} &= \underline{98.09' /} \\ \text{Equin ohang} &= 4.50 - 2.67' / \\ &= \underline{1.83' /} \end{aligned}$$

$$\begin{aligned} \text{Bridge enclosed at side} &= 39.50' / \\ \frac{2}{3} \times 4.5 &= 3.00' / \\ \text{Equin} &= \underline{42.50' /} \\ \text{Equin ohang ford} &= \underline{.50' /} \end{aligned}$$

Forecastle :-

A

B (then > ltd)

$$\begin{aligned} C &= \frac{13.5' \times 14.5'}{24.75} \\ &= 7.91' \end{aligned}$$

S	S ₁
27.50 /	27.50 /
13.50 /	13.50 /
7.91 /	7.91 /
48.91 /	48.91 /

SHEER CORRECTION

Station	Mean	Product	Actual	Effective	Product
1	11.40	11.40	11.40	11.40	11.40
2	20.61	20.61	20.61	20.61	20.61
3	15.47	15.47	15.47	15.47	15.47
4	0	0	0	0	0
5	6.33	6.33	6.33	6.33	6.33
6	25.33	25.33	25.33	25.33	25.33
7	27.00	27.00	27.00	27.00	27.00

Trade of ship INTERNATIONAL

Names of sister ships —

Builder's name and yard number BLYTHSWOOD S.B. Co. LD. No 89.

Owners BRITISH TANKER Co. LD.

ESTIMATED
GROSS TON Fee £ 19-0-0.
8500.

Approved plans of Midship Section, Profile & decks, Sternframe, & W.T. doors & coamings enclosed herewith for reference.
Freeboard request form attached herewith.



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Foundation