

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 36377
(For London Office only).

SEP 30 1940

No 32.977

Ship's Name Richmond Hill (Bartram's Yard No. 284)	Official Number	Nationality and Port of Registry British London	Gross Tonnage	Date of Build	Port of Survey Sunderland
Moulded Dimensions: Length 415' 0" Breadth 57' 10" Depth 23' 9" <i>to centre of rudder stock.</i>					Date of Survey Whilst building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 24' 5" = 12521 tons					Surveyor's Signature Jas L Renne
Coefficient of fineness for use with Tables .717.					Particulars of Classification +100 A1 with freeboard (contemplated)

Depth for Freeboard (D). Moulded depth ... 23.75 Stringer plate ... 44" Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) =	Depth correction. (a) Where D is greater than Table depth (D—Table depth) R = (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) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = 6" Difference Restricted to Correction = $\frac{\text{Diff}^o}{4} \times \left(1 - \frac{S_1}{L} \right) =$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	40.125				
„ overhang ...	✓				
R.Q.D. enclosed ...	✓				
„ overhang ...	✓				
Bridge enclosed ...	370.375				
„ overhang aft ...	✓				
„ overhang forward ...	✓				
F'cle enclosed ...	✓				
„ overhang ...	✓				
Trunk aft ...	✓				
„ forward ...	✓				
Tonnage opening aft ...	4.50				
„ „ forward ...	✓				
Total ...	415.00				

Standard Height of Superstructure _____
 „ „ R.Q.D. _____
 Deduction for complete superstructure _____
 Percentage covered $\frac{S}{L} =$
 „ „ $\frac{S_1}{L} =$
 „ „ $\frac{E}{L} =$
 Percentage from Table, Line A.
 (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 =

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1		72.00		1	
$\frac{1}{8}L$ from A.P. ...		4		31.00		4	
$\frac{2}{8}L$ „ ...		2		5.75		2	
Amidships ...		4		✓		4	
$\frac{3}{8}L$ from F.P. ...		2		10.25		2	
$\frac{1}{8}L$ „ ...		4		63.75		4	
F.P. ...		1		144.00		1	
Total ...							

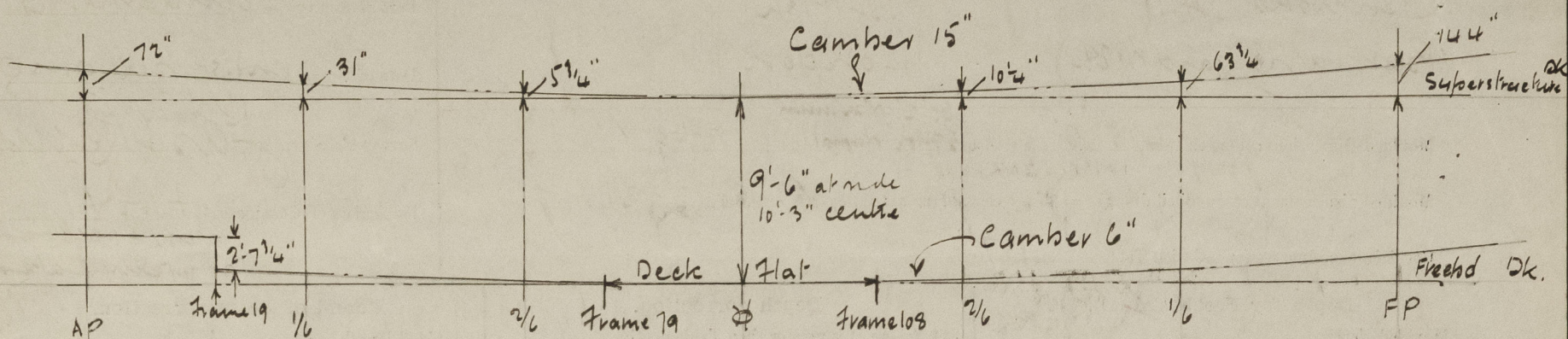
Mean actual sheer aft =
 Mean standard sheer aft =
 Mean actual sheer forward =
 Mean standard sheer forward =
 Length of enclosed superstructure forward of amidships =
 „ „ aft of „ =
 Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$
 If limited on account of midship superstructure.
 If limited to maximum allowance of $\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = Summer freeboard = Moulded draught (d) = 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 = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient <table border="1"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Depth Correction ...</td> <td></td> <td></td> </tr> <tr> <td>Deduction for superstructures ...</td> <td></td> <td></td> </tr> <tr> <td>Sheer correction ...</td> <td></td> <td></td> </tr> <tr> <td>Round of Beam correction ...</td> <td></td> <td></td> </tr> <tr> <td>Correction for Thickness of Deck amidships ...</td> <td></td> <td></td> </tr> <tr> <td>Other corrections, scantlings, etc. ...</td> <td></td> <td></td> </tr> </tbody> </table> Summer Freeboard =		+	-	Depth Correction ...			Deduction for superstructures ...			Sheer correction ...			Round of Beam correction ...			Correction for Thickness of Deck amidships ...			Other corrections, scantlings, etc. ...		
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Other corrections, scantlings, etc. ...																							

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 „ „ ...	...

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.



External displacement = 13440 tons at actual draft of 26'-0 1/4" Tons per inch 49.25
 " " = 14747 " " " 28'-2 1/2" " 50.1

See also Secretary's letter of 20/5/40 regarding modifications for increased draft.

Trade of ship

Names of sister ships

Builder's name and yard number

Bartlam & Sons Ltd Yard No 284

Owners

Parkney Hill Steamship Co Ltd

Fee

£ 18/-/- will be charged on completion



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