

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

GRV. REPORT N° 23946.

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
YOUSUFBAKSH REGISTRATION	182212 S/L AQU	PAKISTAN BRITISH LONDON KARACHI	5969.82 5975	WHILST BUILDING

Port of Survey PORT GLASGOWDate of Survey WHILST BUILDINGSurveyor's Signature f. j. j. j.Particulars of Classification +100 A.1.
"WITH FREEBOARD"Moulded Dimensions: Length 425.59 Breadth 57.3 1/2 Depth 29.0 TO UPPER DECK
TO CB OF RUDDER STOCK.Moulded displacement at moulded draught = 85 per cent. of moulded depth 12850 tonsCoefficient of fineness for use with Tables .748 ✓

DEPTH FOR FREEBOARD (D).

Moulded depth 29.0Stringer plate04

Sheathing on exposed deck

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) = 29.04

DEPTH CORRECTION.

(a) Where D is greater than Table depth

(D - Table depth) R =

(29.04 - 28.37) 3 = + 2.01 ✓

(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) 57.29Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.75Ship's Round of Beam = 14Difference .25

Restricted to

Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.25^2}{4} \times .0056 = \text{NIL}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>41.88</u> ✓	<u>41.88</u>	<u>9.0</u>	✓	<u>41.88</u>
" overhang	<u>.50</u>	<u>.25</u>			
R.Q.D. enclosed					
" overhang					
Bridge enclosed <u>PLUG</u>					
" overhang aft	<u>378.71</u> ✓	<u>378.71</u>	<u>9.0</u>	✓	<u>378.71</u>
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward		<u>1/2 DIFF.</u>			
Tonnage opening aft	<u>4.50</u>	<u>2.38</u>	<u>9.0</u>	✓	<u>2.38</u>
" " forward					
Total	<u>425.59</u>	<u>423.22</u>			<u>423.22</u>

Standard Height of Superstructure 7.50" " R.Q.D. ✓Deduction for complete superstructure 42.00Percentage covered $\frac{S}{L} =$ 100.00 ✓" " $\frac{S_1}{L} =$ 99.44 ✓" " $\frac{E}{L} =$ 99.31 ✓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 = 42.00 × .9931 = - 41.71 ✓

SHEER CORRECTION.

Corrected Ht at T.O.C. = 108'
Standard " " = 90'
Excess = 18'

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<u>52.56</u>	1		<u>52.56</u>	<u>75</u>	<u>93.00</u>	1		<u>93.00</u>
1/2 L from A.P.	<u>23.39</u>	4		<u>93.56</u>	<u>33</u>	<u>41.39</u>	4		<u>165.56</u>
3/8 L "	<u>5.78</u>	2		<u>11.56</u>	<u>8.5</u>	<u>10.23</u>	2		<u>20.46</u>
Amidships	✓	4		✓	<u>0</u>	✓	4		✓
3/8 L from F.P.	<u>11.56</u>	2		<u>23.12</u>	<u>15</u>	<u>16.83</u>	2		<u>33.66</u>
1/2 L "	<u>46.78</u>	4		<u>187.12</u>	<u>59</u>	<u>68.08</u>	4		<u>272.32</u>
F.P.	<u>105.12</u>	1		<u>105.12</u>	<u>135</u>	<u>153.00</u>	1		<u>153.00</u>
Total		✓		<u>473.04</u>	<u>+18</u>				<u>738.00</u>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{264.96}{18} \times .25 = - 3.68$ ✓

If limited on account of midship superstructure.

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 " =

c.s.s.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 29.04 Ft.Summer freeboard = 3.33Moulded draught (d) = 25.69

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.42 = 6' 2"

Addition for Winter North Atlantic Freeboard (if required) = ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$ 24.0 × 12495 TONS $\Delta =$ 25.0 × 13080

Tons per inch immersion at summer load water line

 $T =$ 24.0 × 48.29 TONS $T =$ 25.0 × 48.61Deduction = $\frac{\Delta}{40 T}$ inches 48.89= 6.95

. 7" ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{748 + 68}{1.36} = 1.428 / 1.36$ Depth Correction 2.01 ✓Deduction for superstructures 41.71 ✓Sheer correction 3.68 ✓Round of Beam correction ✓Correction for Thickness of Deck amidships ✓Other corrections, scantlings, etc. ✓

2.01 45.39 - 43.38

Summer Freeboard = 40.13 ✓

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

Tropical Fresh Water Line above Centre of Disc 13 1/2 ✓Fresh Water Line " " 17 1/2 ✓Tropical Line " " 21 1/2 ✓Winter Line below " " 6 1/2 ✓Winter North Atlantic Line " " ✓Tropical Fresh Water Freeboard 21 - 4 1/4 ✓Fresh Water " 21 - 2 3/4 ✓Tropical " 21 - 9 1/4 ✓Winter " 21 - 9 3/4 ✓Winter North Atlantic " 21 - 10 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.

OMIT.

Trade of ship INTERNATIONAL.

Names of sister ships —

Builder's name and yard number WM HAMILTON & CO LD NO 484.

Owners HAIN STEAMSHIP CO LD. LONDON

Fee £ 28 : 0 : 0.



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