

FOR SCANTLING IN
"C S D" CONDITION
LLOYD'S REGISTER OF SHIPPING
SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER~~)

For LONDON OFFICE ONLY

Received
Index No.
Govt. Copy
Owners C11

Ship's Name <u>YOUSUFBAKSH</u>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey <u>LONDON</u>
Moulded Dimensions: Length <u>427.00</u> Breadth <u>57'-3 1/2"</u> Depth <u>38.00</u> ✓ Freeboard Length <u>427.00</u> ✓					Date of Survey <u>31/3/60</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons					Surveyor's Signature <u>gmh</u>
Coefficient of fineness for use with Tables <u>0.772</u> <u>758</u> ✓					Particulars of Classification <u>100 A1</u> <u>CONTINGENT</u>

DEPTH FOR FREEBOARD (D). Moulded depth ... <u>38.00</u> ✓ Stringer plate <u>0.54</u> ... <u>0.05</u> Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = .21 \left(\frac{40}{427} \right) = 0.02$ Depth for Freeboard (D) = <u>38.07</u>	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = <u>38.07 - 28.47 = +28.80</u> ✓ (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) <u>57.29</u> ✓ Standard Round of Beam = $\frac{B \times 12}{50} = 13.75$ ✓ Ship's Round of Beam = <u>14.00</u> ✓ Difference <u>.25</u> Restricted to _____ Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.25}{4} = .06$ ✓
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DEDUCTION FOR SUPERSTRUCTURES.

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

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.	52.70	1		52.70	75.00	75.00	1		75.00
1/4 L from A.P.	23.45	4		93.80	33.00	33.00	4		132.00
3/4 L	5.80	2		11.60	8.50	8.50	2		17.00
Amidships	0	4		0	0	0	4		0
3/4 L from F.P.	11.59	2		23.18	15.00	15.00	2		30.00
1/4 L	46.90	4		187.60	59.00	59.00	4		236.00
F.P.	105.40	1		105.40	135.00	135.00	1		135.00
Total				474.28					625.00

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 " = _____
FLUSH DECK.Correction = Difference between sums of products $\left(\frac{.75 - S}{2L} \right) = \frac{150.72 - .75}{18} = -6.28$ ✓
If limited on account of midship superstructure. NO - FLUSH DECKIf limited to maximum allowance of 1 1/2 ins. per 100ft. NO

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 38.05 Ft.
Summer freeboard = 9.46 ✓
Moulded draught (d) = 28.59 ✓
Keel allowance = _____
Extreme draught = _____
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 = $\frac{\Delta}{40 T}$ inches = _____

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ... 28.80 ✓
Deduction for superstructures ... _____
Sheer correction ... 6.28 ✓
Round of Beam correction ... 0.06 ✓
Correction for Thickness of Deck amidships ... 0.24 ✓
Other corrections, scantlings, etc. ... _____

+	-
28.80	-
-	-
-	6.28
-	0.06
-	0.24
-	-
28.80	6.58
+22.22	
Summer Freeboard = 113.54	

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.

CHANGE OF CB

$$= 0.748 + \left[\frac{.85 - .85 \times \frac{28.5}{28.5}}{0.1} \right] C = 0.012$$

$$= 0.748 + \frac{.85 \times 9 \times .12}{38} = 0.748 + 0.024 = 0.772$$

$$= .748 + \left[\frac{.85 - .85 \times \frac{25.69}{28.5}}{0.1} \right] \frac{.012}{.10}$$

$$= .758$$

Trade of ship _____

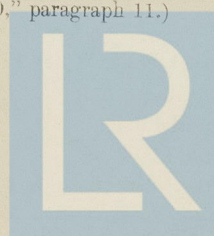
Names of sister ships _____

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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