

"RAGNA GORTON"  
46197

# LLOYD'S REGISTER OF SHIPPING

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR ~~STEAMER~~, ~~SAILING SHIP~~, TANKER)

For LONDON OFFICE ONLY

Received .....

Index No. ....

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Ship's Name <b>"STANVALE"</b>	Official Number <b>187537</b>	Nationality and Port of Registry <b>BRITISH LONDON</b>	Gross Tonnage <b>12029</b>	Date of Build <b>2, 57</b>	Port of Survey <b>UDDEVALLA</b>
Moulded Dimensions: Length <b>69.75</b> Breadth <b>39.67</b> Depth <b>39.67</b>					Date of Survey <b>WHILST BUILDING</b>
Freeboard Length <b>530.66 ft To E of RS.</b>					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) <b>780</b> tons					Particulars of Classification <b>+100A1 CPB</b>
Coefficient of fineness for use with Tables					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	39.67	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	69.75
Stringer plate	1.1	(39.76 - 35.38) 3 = 13.14		Standard Round of Beam = $\frac{B \times 12}{50}$	16.74
Wood Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	16.73
T $\left(\frac{L-S}{L}\right)$ =				Difference	.01
Depth for Freeboard (D) =	39.76	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L}\right)$	$\frac{.01}{4} \times .5771 = \text{NIL}$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>i</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed EQUIV	115.87	115.87	8'-0.06"	-	115.87
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	41.26	41.26	8'-9.9'	-	41.26
" overhang aft					
" overhang forward					
Fore enclosed	67.30	67.30	8'-0.06"	-	67.30
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	224.43	224.43			224.43

Standard Height of Superstructure **7.5'**

" " R.Q.D. **-**

Deduction for complete superstructure **42"**

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

" "  $\frac{S_i}{L} =$  } **42.29**

" "  $\frac{E}{L} =$

Percentage from Table, Line A. TANKER **33.29**

(corrected for absence of fore-castle (if required))

Percentage from Table, Line B.

(corrected for absence of fore-castle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = **42.00 x .3329 = 13.98"**

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	63.07	1	63.07	45.79	51.85	1	51.85		
1/4 L from A.P.	28.07	4	112.28	3.66	3.92	4	15.68		
1/2 L	6.94	2	13.88	0	0	2			
Amidships	0	4	0	0	0	4	0		
3/4 L from F.P.	13.87	2	27.74	1.69	1.69	2	3.38		
1/4 L	56.13	4	224.52	26.97	26.97	4	107.88		
F.P.	126.13	1	126.13	82.68	82.68	1	82.68		
Total			567.62				261.47		

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 =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{30615}{18} \left( .75 - \frac{.2115}{.5385} \right) = +9.16"$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

## Deduction for Fresh Water.

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Depth to Freeboard Deck = <b>39.76</b>	Displacement in salt water at summer load water line	Correction for coefficient <b>68 + 780 = 1.469</b>	94.45
Summer freeboard = <b>9.15</b>	$\Delta = 25088 \text{ MTONS (S.W.)}$	<b>1.36</b>	101.40
Moulded draught (d) = <b>30.61</b>	Tons per inch immersion at summer load water line	Depth Correction	13.14
Keel allowance =	$T = 74.01 \text{ M}^3 / 25 \text{ mm.}$	Deduction for superstructures	13.98
Extreme draught =	Deduction = $\frac{\Delta}{40 T}$ inches	Sheer correction	9.16
Deduction for Tropical freeboard and addition for = <b>7.65 = 194</b>	= <b>8.137</b>	Round of Beam correction	-
Winter freeboard = $\frac{d}{4}$ inches = <b>7 3/4"</b>	= <b>8 1/4"</b>	Correction for Thickness of Deck amidships	-
Addition for Winter North Atlantic Freeboard (if required) = <b>7.65 + 5.31 = 12.96 = 13" 329</b>		Other corrections, scantlings, etc.	-
		Summer Freeboard = <b>109.72</b>	

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

Tropical Fresh Water Line above Centre of Disc	40.0	16"	Tropical Fresh Water Freeboard	7'-9 3/4"	2785 m/m
Fresh Water Line	2.05	8 1/4"	Fresh Water	8'-5 1/2"	2385
Tropical Line	195	7 3/4"	Tropical	8'-6"	2590
Winter Line below	195	7 3/4"	Winter	9'-9 1/2"	2980
Winter North Atlantic Line	33.0	13"	Winter North Atlantic	10'-23 1/4"	3115



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.

$$\begin{aligned} \text{Length at side} &= 111.70 \checkmark \\ + \frac{2}{3} \times 6.25 &= \underline{4.17} \checkmark \\ &= 115.87 \checkmark \end{aligned}$$

Length = 67.30. ✓

$$\begin{aligned} \text{Length at side} &= 39.51 \checkmark \\ + 2/3 \times 4.45 \checkmark &= 2.97 \checkmark \\ \hline &42.48 \checkmark \end{aligned}$$

$$\text{Corrected for Breadth} = 42.48 \times \frac{20.650}{21.240} = 41.26'$$

length of loop at side = 111.70 ✓  
 1/6 L = 88.44 ✓  
23.26 ✓

Actual Poop deck height = 96.06 ✓  
Standard " " " = 90.00 ✓  
Excess 6.06 ✓

$$\therefore \text{addition to sheet at } \frac{1}{6}L \text{ from R.P.} = 6.06 \times \frac{23.26^2}{41.70^2}$$

$$\text{addition to R.P.} = 6.06'' = .26''$$

$$F.W. \text{ Allowance} = \frac{25088 \times 25}{40 \times 74.01 \times 1.025 \times 25.4} = 8.137'' \checkmark$$

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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