

*Amended computation  
for 39' increase in length*

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. **33611**  
(For London Office only.)

Ship's Name <b>ALBEGONDA</b>	Official Number	Nationality and Port of Registry <b>Holland The Hague</b>	Gross Tonnage <b>2487</b>	Date of Build <b>1931 allied 1947</b>	Port of Survey <b>HONG KONG.</b>
Moulded Dimensions: Length <b>91.135</b> Breadth <b>14.630</b> Depth <b>4.496</b>					Date of Survey <b>December 1947</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>4116 estimated</b> tons					Surveyor's Signature <b>F. B. Gne.</b>
Coefficient of fineness for use with Tables <b>800</b>					Particulars of Classification <b>+100A1 carrying petroleum in bulk (Reclassification contemplated)</b>

<b>DEPTH FOR FREEBOARD (D).</b> Moulded depth ... <b>4.496</b> Stringer plate ... <b>10 1/2</b> ... <b>11</b> Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ <b>—</b> Depth for Freeboard (D) = <b>4.507</b>	<b>DEPTH CORRECTION.</b> (a) Where D is greater than Table depth (D—Table depth) R = <b>—</b> (b) Where D is less than Table depth (if allowed) (Table depth—D) R = <b>8.33(6.076-4.507)/23.015 = -30 1/2</b> $\frac{1.569}{1.569}$ If restricted by superstructures	<b>ROUND OF BEAM CORRECTION.</b> Moulded Breadth (B) <b>14.630</b> Standard Round of Beam = $\frac{B \times 12}{50} =$ <b>293</b> Ship's Round of Beam = <b>305</b> Difference <b>12</b> Restricted to <b>—</b> Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{12^2}{4} \times \left(1 - \frac{81.02}{81.02}\right) = -1$
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## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	26.352	26.352	22.10	—	26.352
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
Fore enclosed ...	14.173	14.173	2.210	—	14.173
„ overhang ...					
Trunk aft ...		2.868	2.210	—	2.868
„ forward ...		30.457	2.210	—	30.457
Tonnage opening aft ...					
„ „ forward ...					
Total ...	40.525	73.850			73.850

Standard Height of Superstructure **1.980 m**

„ „ R.Q.D. **896 mpm**

Deduction for complete superstructure

Percentage covered  $\frac{S}{L} =$  **44.47**

„ „  $\frac{S_1}{L} =$  **81.02** *81.02*

„ „  $\frac{E}{L} =$  **81.02**

Percentage from Table, Line A **tanker** **76.56** *76.58*

(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 = **896 x .7656 = 686**

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	1013	1	1013	781	781	781	1	781	781
1/2 L from A.P. ...	450	4	1800	250	250	250	4	1000	1000
1/2 L „ ...	112	2	224	33	33	33	2	66	66
Amidships ...	—	4	—	—	—	—	4	—	—
1/2 L from F.P. ...	225	2	450	84	84	84	2	168	168
1/2 L „ ...	900	4	3600	540	540	540	4	2160	2160
F.P. ...	2026	1	2026	1372	1372	1372	1	1372	1372
Total ...			9113					5547	5547

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{3566}{18} (.75 - .2223) = +105$

If limited on account of midship superstructure. **5277** If limited to maximum allowance of 1 1/2 ins. per 100 ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **4.507**

Summer freeboard = **.25**

Moulded draught (d) = **4.257**

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{48} \text{ inches} = 88.79 \text{ cms}$ Addition for Winter North Atlantic Freeboard (if required) = **88.7 + 74.7 = 163.4 = 16 cms**

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

Tons per inch immersion at summer load water line

Deduction =  $\frac{\Delta}{40 T}$  inches= **10**

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

Correction for coefficient

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

+	-
—	301
—	686
105	—
1	—
—	—
106	987

Summer Freeboard = **250 mpm**

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

Tropical Fresh Water Line above Centre of Disc	19 cms
Fresh Water Line „ „	10 „
Tropical Line „ „	9 „
Winter Line below „ „	9 „
Winter North Atlantic Line „ „	16 „

Tropical Fresh Water Freeboard	6 „
Fresh Water „	15 „
Tropical „	16 „
Winter „	34 „
Winter North Atlantic „	41 „