

DOLLARIA
30124

Rpt. C.11.

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(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

8
-
A

Computation of Freeboard for *Steamer, Sailing Ship, Tanker*
having *Poop - Bridge - Forecastle.*

(Type of Superstructures.)

Ship's Name <i>SEMIRAMIS</i>	Nationality and Port of Registry <i>Dutch The Hague.</i>	Official Number <i>5792</i>	Gross Tonnage <i>1921-9.</i>	Date of Build
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Moulded Dimensions: Length *125.5* Breadth *16.18* Depth *9.448*
Moulded displacement at moulded draught = 85 per cent. of moulded depth
Coefficient of fineness for use with Tables *795*

Port of Survey
Date of Survey *10-1-33.*
Name of Surveyor
Particulars of Classification *+100A.1.*
Carrying Petroleum in Bulk.

<p>Depth for Freeboard (D)</p> <p>Moulded depth ... <i>9.448</i></p> <p>Stringer plate ... <i>0.015</i></p> <p>Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$</p> <p>Depth for Freeboard (D) = <i>9.463</i></p>	<p>Depth correction</p> <p>(a) Where D is greater than Table depth (D - Table depth) R = <i>8.33(9.463 - 8.367) 30.0 = +274</i></p> <p>(b) Where D is less than Table depth (if allowed) (Table depth - D) R =</p> <p>If restricted by superstructures</p>	<p>Round of Beam correction</p> <p>Moulded Breadth (B) <i>16.18</i></p> <p>Standard Round of Beam = $\frac{B \times 12}{50} =$ <i>324</i></p> <p>Ship's Round of Beam = <i>318</i></p> <p>Difference <i>6</i></p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <i>\frac{6}{4} (1 - .4739) + 1</i></p>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	33.60	33.60	2286	✓	33.60
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...	7.92	7.92	2286	✓	7.92
Bridge enclosed ...	1.07	.80			.80
„ overhang aft91	.45			.45
„ overhang forward ...	16.08	16.08	2286	✓	16.08
Fore enclosed ...	1.22	.61			.61
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ forward ...					
Total ...	60.80	59.46			59.46

Standard Height of Superstructure *2286*

„ „ R.Q.D. *✓*

Deduction for complete superstructure *1067*

Percentage covered $\frac{S}{L} =$ *48.46*

„ „ $\frac{S_1}{L} =$ *47.39*

„ „ $\frac{E}{L} =$ *47.39*

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. *Tanker 38.39*
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required) *✓*

Deduction = *1067 × 38.39 = -410*

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	1300	1		1300	1143	1143	1		1143
$\frac{1}{8}L$ from A.P. ...	578	4		2312	421	421	4		1684
$\frac{3}{8}L$ „ ...	143	2		286	105	105	2		210
Amidships ...	-	4		-	-	-	4		-
$\frac{5}{8}L$ from F.P. ...	286	2		572	263	263	2		526
$\frac{7}{8}L$ „ ...	1157	4		4628	1054	1054	4		4216
F.P. ...	2600	1		2600	2591	2591	1		2591
Total ...				11698					10370

Mean actual sheer aft = *deficient.*
Mean standard sheer aft

Mean actual sheer forward = *deficient.*
Mean standard sheer forward

Length of enclosed superstructure forward of amidships = *Tanker.*
„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ *\frac{1328}{18} (.75 - \frac{2423}{5077}) = + 37*

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.

Ft.

Depth to Freeboard Deck = *9.470*

Summer freeboard = *1.711*

Moulded draught (d) = *7.759*

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{48}$ inches = *162 mms.*

Addition for Winter North Atlantic Freeboard (if required) = *103 mms.*

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$ *12550*

Tons per inch immersion at summer load water line

$T =$ *17.5*

Deduction = $\frac{\Delta}{40T}$ inches = *179 mms.*

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient *7951.68* *1.475*
136 *1.36*

	+	-
Depth Correction ...	274	-
Deduction for superstructures ...	-	410
Sheer correction ...	37	-
Round of Beam correction ...	1	-
Correction for Thickness of Deck amidships ...	9	-
Other corrections, scantlings, etc. ...	-	-
	321	410

Summer Freeboard = *1711*

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

Tropical Fresh Water Line above Centre of Disc ...	341 mms
Fresh Water Line „ „ ...	179
Tropical Line „ „ ...	162
Winter Line „ „ ...	162
Winter North Atlantic Line „ „ ...	265

Tropical Fresh Water Freeboard ...	1370
Fresh Water „ „ ...	1532
Tropical „ „ ...	1549
Winter „ „ ...	1873
Winter North Atlantic „ „ ...	1976

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MARKING FORM
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