

Queen Victoria 35060

Lloyd's Register of Shipping.

Index. No. 34848
(For London Office only).

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name Queen Adelaide.	Official Number 164093	Nationality and Port of Registry British, Glasgow	Gross Tonnage 4933	Date of Build	Port of Survey <input checked="" type="checkbox"/>
Moulded Dimensions: Length 410.0' Breadth 55.0' Depth 37.58				Date of Survey 26.8.41	Surveyor's Signature <input checked="" type="checkbox"/>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons				Particulars of Classification +100 A1 with freeboard.	
Coefficient of fineness for use with Tables .777 (estimated)					

Depth for Freeboard (D). Moulded depth ... 37.58 Stringer plate ... 5205 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ <input checked="" type="checkbox"/> Depth for Freeboard (D) = 37.63	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(37.63 - 27.33) 3 = + 30.90$ 10.30 (b) Where D is less than Table depth (if allowed) (Table depth - D) R = <input checked="" type="checkbox"/> If restricted by superstructures <input checked="" type="checkbox"/>	Round of Beam correction. Moulded Breadth (B) 55.0' Standard Round of Beam = $\frac{B \times 12}{50} = 13.2$ Ship's Round of Beam = 13.5 Difference 3 Restricted to <input checked="" type="checkbox"/> Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{3}{4} \times .9165 = -.07$
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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 ...	34.25	34.25	7.5'	<input checked="" type="checkbox"/>	34.25
.. overhang ...					
Trunk aft ...					
.. forward ...					
Tonnage opening aft ...					
.. forward					
Total ...	34.25	34.25			34.25

Standard Height of Superstructure	7.5'
.. .. R.Q.D.	42.00"
Deduction for complete superstructure	
Percentage covered $\frac{S}{L} =$	8.35
.. .. $\frac{S_1}{L} =$	
.. .. $\frac{E}{L} =$	
Percentage from Table, Line A.	= 4.18
(corrected for absence of forecastle (if required))	<input checked="" type="checkbox"/>
Percentage from Table, Line B.	
(corrected for absence of forecastle (if required))	<input checked="" type="checkbox"/>
Interpolation for bridge less than .2L (if required)	<input checked="" type="checkbox"/>
Deduction = $42 \times .0418 = -1.76$	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	51.00	1		51.00	39.0	39.00	1		39.00
$\frac{1}{2}$ L from A.P. ...	22.69	4		90.76	15.94	15.94	4		63.76
$\frac{2}{3}$ L ..	5.61	2		11.22	4.0	4.00	2		8.00
Amidships ...	-	4		-	-	-	4		-
$\frac{2}{3}$ L from F.P. ...	11.22	2		22.44	9.25	9.25	2		18.50
$\frac{1}{2}$ L ..	45.39	4		181.56	37.75	37.75	4		151.00
F.P. ...	102.00	1		102.00	85.63	85.63	1		85.63
Total ...				458.98					365.89

Mean actual sheer aft =	Defc.
Mean standard sheer aft =	Defc.
Mean actual sheer forward =	Defc.
Mean standard sheer forward =	Defc.
Length of enclosed superstructure forward of amidships =	
.. .. aft of ..	Defc. Sheer.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{93.09}{18} \left(.75 - \frac{.0418}{2} \right) = + 3.66$	If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. <input checked="" type="checkbox"/>
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Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 37.63 Summer freeboard = 11.12 Moulded draught (d) = 26.51 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.63 = 6 $\frac{3}{4}$ Addition for Winter North Atlantic Freeboard (if required) = <input checked="" type="checkbox"/>	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 = $\frac{\Delta}{40T}$ inches = 7"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{74.60 + 1.01}{777 + .68} = 1.452 / 1.36$ <table border="1"> <tr><td></td><td>+</td><td>-</td></tr> <tr><td>Depth Correction</td><td>30.90</td><td>-</td></tr> <tr><td>Deduction for superstructures</td><td>-</td><td>1.76</td></tr> <tr><td>Sheer correction</td><td>3.66</td><td>-</td></tr> <tr><td>Round of Beam correction</td><td>-</td><td>.07</td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td>-</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc. 5.00</td><td>19.77</td><td>-</td></tr> <tr><td>54.33</td><td>183</td><td>+ 52.50</td></tr> </table> Summer Freeboard = 133.50		+	-	Depth Correction	30.90	-	Deduction for superstructures	-	1.76	Sheer correction	3.66	-	Round of Beam correction	-	.07	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc. 5.00	19.77	-	54.33	183	+ 52.50
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck.

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Tropical Fresh Water Line above Centre of Disc	13 $\frac{3}{4}$"
Fresh Water Line	7"
Tropical Line	6 $\frac{3}{4}$"
Winter Line below	6 $\frac{3}{4}$"
Winter North Atlantic Line	7"

Tropical Fresh Water Freeboard	11' - 1 $\frac{1}{2}$"
Fresh Water	9' - 11 $\frac{3}{4}$"
Tropical	10' - 6 $\frac{1}{2}$"
Winter	10' - 6 $\frac{3}{4}$"
Winter North Atlantic	11' - 8 $\frac{1}{4}$"