

PRELIMINARYS
CONVERSION TO ORE CARRIER

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

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

For LONDON OFFICE ONLY

Received
Index No.
Govt. Copy
Owners C11

Ship's Name ADELLEN	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
Moulded Dimensions: Length <u>476.38</u> Breadth <u>68.0</u> Depth <u>36.0</u>				
Freeboard Length <u>476.38</u>				
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons				
Coefficient of fineness for use with Tables <u>.757</u>				

Port of Survey _____
Date of Survey _____
Surveyor's Signature _____
Particulars of Classification +100A1
AL CANTON

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth <u>36.0</u>	(a) Where D is greater than Table depth (D-Table depth) R = <u>(36.07-31.80)3 = 12.81</u> ✓	Moulded Breadth (B) _____
Stringer plate <u>.07</u>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = <u>1.27</u>	Standard Round of Beam = $\frac{B \times 12}{50} = 16.32$ ✓
Wood Sheathing on exposed deck	If restricted by superstructures _____	Ship's Round of Beam = <u>17.00</u> ✓
$T \left(\frac{L-S}{L} \right) =$		Difference = <u>.68</u> ✓
Depth for Freeboard (D) = <u>36.07</u>		Restricted to _____
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.68^2}{4} \times \left(1 - \frac{.5825}{4} \right) = .10$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>113.21</u>	<u>113.21</u>	<u>7.6</u>		<u>113.21</u>
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed	<u>34.58</u>	<u>34.58</u>	<u>7.6</u>		<u>34.58</u>
" overhang	<u>.29</u>	<u>.15</u>	<u>7.6</u>		<u>.15</u>
Trunk aft	<u>24.91</u>	<u>24.91</u>	<u>4.5</u>	<u>1.68</u>	<u>21.59</u>
" forward	<u>26.07</u>	<u>26.07</u>	<u>6.0</u>	<u>4.5</u>	<u>20.86</u>
Tonnage opening aft					
" " forward					
Total	<u>148.04</u>	<u>198.88</u>			<u>190.35</u>

Standard Height of Superstructure 7.5
" " R.Q.D. _____
Deduction for complete superstructure 42.00 ✓
Percentage covered $\frac{S}{L} = 31.04$ ✓
" " $\frac{S_1}{L} = 41.45$ ✓
" " $\frac{E}{L} = 39.96$ ✓
Percentage from Table, Line A. 23.46 ✓
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. 42 ✓
(corrected for absence of forecastle (if required))
Interpolation for bridge less than .2L (if required) 9.85 ✓
Deduction = 13.00 ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{4}L$ from A.P.		4					4		
$\frac{3}{8}L$ "		2					2		
Amidships	○	4	○	○	○	○	4	○	○
$\frac{3}{8}L$ from F.P.		2					2		
$\frac{1}{4}L$ "		4					4		
F.P.		1					1		
Total				<u>519.28</u>					<u>322.41</u>

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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{196.87}{18} \left(.75 - \frac{155.2}{476.38} \right) = +6.51$ ✓
If limited on account of midship superstructure. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 36.07 Ft.
Summer freeboard = 7.73
Moulded draught (d) = 28.34
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 Fresh Deck (if required)

Correction for coefficient 1.36

Depth Correction	12.81	
Deduction for superstructures		13.00
Sheer correction	6.51	
Round of Beam correction		.10
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
Summer Freeboard	19.32	13.10

81.94 ✓
86.58 ✓
95.21 ✓
100.60 ✓
9.456 ✓
9.37 ✓
109.97 ✓
9.22 ✓

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	"



