Rpt. C.11 (Comp.)

PRELIM. – CONVERTED TO ORE CARRIER WITH STEAMER DRAUGHT

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	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
"ADELLEN"				

Port of Survey .....

Date ~~of Survey~~ 2/5/56

Surveyor's Signature .....

Particulars of Classification ✠ 100A1 from +100A1 CBIS.

Moulded Dimensions: Length 476'-4½" Breadth 68'-0" Depth 36'-0"

Freeboard Length 476·96' To ℄ of R.S

Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 21480 tons

Coefficient of fineness for use with Tables ·757

DEPTH FOR FREEBOARD (D).

	FT
Moulded depth	36·00
Stringer plate ... ·82"	·07
Wood Sheathing on exposed deck $T\left(\frac{L-S}{L}\right)$ =	
Depth for Freeboard (D) =	36·07

DEPTH CORRECTION.

(a) Where D is greater than Table depth (D—Table depth) R =

4·27

(36·07 – 31·86) 3 = 12·81

(b) Where D is less than Table depth (if allowed) (Table depth—D) R =

If restricted by superstructures

ROUND OF BEAM CORRECTION.

Moulded Breadth (B) 68·00'

Standard Round of Beam = $\frac{B \times 12}{50}$ = 16·32

Ship's Round of Beam = 17·00

Difference ·68

Restricted to

Correction = $\frac{\text{Diff}^{e}}{4} \times \left(1 - \frac{S}{L}\right)$ = $\frac{·68}{4} \times ·2335 = -.04$"

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
Poop enclosed EQUIV ...	113·21	113·21	7·5'	–	113·21
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed					
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed	34·54	34·54	7·5'	–	34·54
„ overhang			7·5'	–	
Trunk aft ... ... }		217·86	greatest than Standard		217·86
„ forward EQUIV ... }					
Tonnage opening aft ...					
„ „ forward ...					
Total	147·75	365·61			365·61

Standard Height of Superstructure 7·5'

„ „ R.Q.D. –

Deduction for complete superstructure 42·00"

Percentage covered $\frac{S}{L}$ = 30·98

„ „ $\frac{S_1}{L}$ = } 76·65

„ „ $\frac{E}{L}$ = }

Percentage from Table, Line A. & B. 71·18

(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 = 42 × ·7118 = 29·90

SHEER CORRECTION.

Station	Standard Ordinate	SM	Product	Actual Ordinate	Effective Ordinate	SM	Product
A.P.	57·700	1	57·70	45·75	45·75	1	45·75
$\frac{1}{6}$L from A.P. ...	25·675	4	102·70	20·75	20·75	4	83·00
$\frac{2}{6}$L „ ...	6·350	2	12·70	5·625	5·625	2	11·25
Amidships ...	0	4	0	0	0	4	0
$\frac{2}{6}$L from F.P. ...	12·695	2	25·39	6·89	6·89	2	13·78
$\frac{1}{6}$L „ ...	51·350	4	205·40	26·75	26·75	4	107·00
F.P.	115·390	1	115·39	61·625	61·625	1	61·63
Total ...			519·28				322·41

$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}}$ = } Deficient

$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}}$ = }

$\frac{\text{Length of enclosed superstructure}}{L}$ forward of amidships = } Deficient Sheers.

„ „ aft of „ = }

Correction = $\frac{\text{Difference between sums of products}}{18}\left(·75 - \frac{S}{2L}\right)$ = $\frac{196·87}{18}\{·75 - ·1549\}$ = + 6·51"

If limited on account of midship superstructure. If limited to maximum allowance of 1½ ins. per 100ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

	Ft.
Depth to Freeboard Deck =	36·07
Summer freeboard =	7·52
Moulded draught (d) =	28·55
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

Δ =

Tons per inch immersion at summer load water line

T =

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

=

TABULAR FREEBOARD ~~corrected for Flush Deck~~ (~~if required~~) 95·39

Correction for coefficient $\frac{·757 + ·68}{1·36}$ = 1·437/1·36 100·80

	+	–
Depth Correction	12·81	–
Deduction for superstructures	–	29·90
Sheer correction	6·51	
Round of Beam correction	–	·04
Correction for Thickness of Deck amidships ...	–	–
Other corrections, scantlings, etc.	–	–
	19·32	29·94

-10·62

Summer Freeboard = 90·18

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :— 7'-6¼"

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 „	

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.

Length of Trunk from Poop front bhd to fore front bhd = 329.21

∴ Equiv length of Trunk = $329.21 \times \frac{22.5}{34} = 217.86$

Hatches 2' high

117.21
34.54
329.21
471.96

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.)