

STAR. of ALEXANDRIA.  
Rpt. Q11 (Comp).  
No 45661.

4 MAY 1953  
Index No. 44033  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

13814

Ship's Name <b>EL NIL</b>	Official Number <b>136</b>	Nationality and Port of Registry <b>ALEXANDRIA</b>	Gross Tonnage <b>2737</b> <del>2800</del>	Date of Build <b>1952/53</b>	Port of Survey <b>TRIESTE</b>
Moulded Dimensions: Length <b>340.21</b> Breadth <b>49.208</b> Depth <b>20.58</b> <i>to shelter str = 29.57</i> <i>to freeb. str = 20.58</i> <i>to shelter str = 8142</i> <i>to freeb. str = 5206</i>					Date of Survey <b>During construction</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature <b>[Signature]</b>
Coefficient of fineness for use with Tables <b>.68</b> ( <b>.652 Actual to shelter Deck</b> ) <b>.623</b> <b>std. dk.</b>					Particulars of Classification <b>+100 Δ 1</b> <b>class contemplated</b>

<b>DEPTH FOR FREEBOARD (D)</b> Moulded depth (shelter str) ... <b>20.58</b> Stringer plate <b>10mm</b> ... <b>0.04</b> Sheathing on exposed deck (only) <b>0.21</b> <i>in way of ship's house</i> $T \frac{(L-S)}{L} =$ Depth for Freeboard (D) = <b>20.58</b>	<b>DEPTH CORRECTION.</b> (a) Where D is greater than Table depth (D-Table depth) R = (b) Where D is less than Table depth (if allowed) (Table depth-D) R = <b>(22.68-20.58) 2.617 = -5.50</b> If restricted by superstructures <b>No.</b>	<b>ROUND OF BEAM CORRECTION.</b> Moulded Breadth (B) <b>49.208</b> Standard Round of Beam = $\frac{B \times 12}{50} = 11.81$ Ship's Round of Beam (shelter str) = <b>108.5</b> Difference <b>(12mm) 5.91</b> Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{5.91^2}{4} \times 0.008 = +0.01$
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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	29.46	29.86	9.36	-	29.86
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed	305.43	305.43	9.36	-	305.43
„ overhang aft					
„ overhang forward					
F'cle enclosed (shelter str)	3.4		7.88		
„ overhang					
Trunk aft					
„ forward		8.44			
Tonnage opening aft	4.92	2.23		-	2.23
„ „ forward					
Total	340.21	337.52			337.52

Standard Height of Superstructure **6.90**

„ „ R.Q.D. **38.01**

Deduction for complete superstructure

Percentage covered  $\frac{S}{L} = 100$

„ „  $\frac{S_1}{L} =$

„ „  $\frac{E}{L} =$  } **99.20**

Percentage from Table, Line A. + B **99.01**  
(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 = **99.01 x 38.01 = -37.63**

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	44.02	1		44.02	3.74	40.32	1		40.32
$\frac{1}{2}$ L from A.P.	19.57	4		78.28	2.08	31.29	4		125.16
$\frac{2}{3}$ L	4.84	2		9.68	0.46	7.735	2		15.47
Amidships	-	4		-	φ		4		-
$\frac{2}{3}$ L from F.P.	9.68	2		19.36	0.91	12.54	2		25.08
$\frac{1}{2}$ L	39.18	4		156.72	3.33	50.73	4		202.92
F.P.	88.04	1		88.04	7.38	114.0	1		114.00
Total				396.18					552.95

Mean actual sheer aft = **Excess**  
Mean standard sheer aft =

Mean actual sheer forward = **Excess**  
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **38.01**

„ „ aft of „ = **38.01**

Actual Tim. dk height = **9.02**  
Standard - - - = **6.90**  
**2.12**

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{156.77 (45 - .5)}{18 \cdot 25} = -2.18$

If limited on account of midship superstructure. ✓

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

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b> Ft. Depth to Freeboard Deck = <b>20.58</b> Summer freeboard = <b>.71</b> Moulded draught (d) = <b>19.87</b> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <b>4.97</b> Addition for Winter North Atlantic Freeboard (if required) =	<b>Deduction for Fresh Water.</b> Displacement in salt water at summer load water line $\Delta = 6151$ tons Tons per inch immersion at summer load water line $T = 31.37$ Deduction = $\frac{\Delta}{40 T}$ inches = <b>4.9</b> <b>= 5"</b>	<b>TABULAR FREEBOARD corrected for Flush Deck (if required)</b> Correction for coefficient $\frac{68+68}{1.32} = 1$ <table><tr><th></th><th>+</th><th>-</th></tr><tr><td>Depth Correction</td><td></td><td>5.50</td></tr><tr><td>Deduction for superstructures</td><td></td><td>37.63</td></tr><tr><td>Sheer correction</td><td></td><td>2.18</td></tr><tr><td>Round of Beam correction</td><td>.01</td><td>-</td></tr><tr><td>Correction for Thickness of Deck amidships</td><td>-</td><td>-</td></tr><tr><td>Other corrections, scantlings, etc.</td><td>-</td><td>-</td></tr><tr><td></td><td>.01</td><td>45.31</td></tr></table> Summer Freeboard = <b>8.46</b>		+	-	Depth Correction		5.50	Deduction for superstructures		37.63	Sheer correction		2.18	Round of Beam correction	.01	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		.01	45.31
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### SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	1.0"	Tropical Fresh Water Freeboard	0' - 8 1/2"
Fresh Water Line	5"	Fresh Water	0' - 1 1/2"
Tropical Line	5"	Tropical	0' - 3 1/2"
Winter Line below	5"	Winter	0' - 3 1/2"
Winter North Atlantic Line	5"	Winter North Atlantic	1' - 1 1/2"



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.

Trade of ship cargo vessel for long international voyages

Names of sister ships "STAR OF ALEXANDRIA"

Builder's name and yard number CANTIERI RIUNITI DELL'ADRIATICO" 245 n. 1779

Owners SOCIETE' MISR DE NAVIGATION MARITIME - ALEXANDRIA

Fee £ 200 1/- 6



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