

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received **1-JUN1954**
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 Owners C11

Ship's Name "ALMIRANTE LOBO"	Official Number ---	Nationality and Port of Registry SPANISH NOT REGISTERED 4183	Gross Tonnage 4183	Date of Build 1954	Port of Survey CADIZ
Moulded Dimensions: Length 105.07 M. B.P. Breadth 14.66 M. Depth 7.823 M. Freeboard Length 105.07 M. to centre of rudder stock. Moulded displacement at moulded draught = 85 per cent. of moulded depth 7625 METRIC tons (excluding bossing) Coefficient of fineness for use with Tables 726					Date of Survey During Construction Surveyor's Signature J. Russell Particulars of Classification + 100 A1

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 7.823	(a) Where D is greater than Table depth (D - Table depth) R = 8.33(7.832 - 7.005) 26.535 = +183%	Moulded Breadth (B) = 14.66 M Standard Round of Beam = $\frac{B \times 12}{50} = \frac{175.92}{50} = \mathbf{3.518}$ Ship's Round of Beam (on Freeboard Deck) = 305 mm. Difference = 12
Stringer plate ... 9 mm.	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 8.27	Restricted to Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{12}{4} \times 2508 = \mathbf{-1.4}$
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	
Depth for Freeboard (D) = 7.832		

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height M.	Height Correction	Effective Length (E)	
Poop enclosed ...	10.713	10.713	2.130	—	10.713	Standard Height of Superstructure 2.120 M
" overhang ...						R.Q.D. 1.605 M
R.Q.D. enclosed ...	26.367	26.367	1.250	1.250	20.835	Deduction for complete superstructure 973%
" overhang ...						Percentage covered $\frac{S}{L} = \frac{10.713}{14.66} = \mathbf{.7492}$
Bridge enclosed ...	30.177	30.177	2.360	—	30.177	" $\frac{S_1}{L} = \frac{26.367}{14.66} = \mathbf{.6936}$
" overhang aft ...						" $\frac{E}{L} = \frac{20.835}{14.66} = \mathbf{.6191}$
" overhang forward ...						Percentage from Table, Line A. + B 61.91
F'cle enclosed ...	11.445	11.445	2.300	—	11.445	(corrected for absence of forecastle (if required))
" overhang ...						Percentage from Table, Line B.
Trunk aft ...						(corrected for absence of forecastle (if required))
" forward ...						Interpolation for bridge less than .2L (if required)
Tonnage opening aft ...						Deduction = $973 \times .6191 = \mathbf{-602\%}$
" " forward ...						
Total ...	78.702	78.702			72.870	

SHEER CORRECTION. DESIGNED TRIM IN LOAD CONDITION
0.400 M. by Stern.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P. ...	1129	1	1129	1.460	1.460	1	1460	Mean actual sheer aft =
$\frac{1}{8}$ L from A.P. ...	502	4	2008	.780	.780	4	3120	Mean standard sheer aft =
$\frac{3}{8}$ L " ...	126	2	252	.240	.240	2	480	Mean actual sheer forward =
Amidships ...	0	4	0	0	0	4	0	Mean standard sheer forward =
$\frac{5}{8}$ L from F.P. ...	251	2	502	.360	.360	2	720	Length of enclosed superstructure forward of amidships = > .1L
$\frac{7}{8}$ L " ...	1003	4	4012	1.320	1.320	4	5280	" " aft of " = > .1L
F.P. ...	2258	1	2258	2.890	2.890	1	2890	
Total ...			10161				13950	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{3789}{18} \left(\frac{.75 - .3746}{2} \right) = \mathbf{-79\%}$
 If limited on account of midship superstructure.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 7.832	Displacement in salt water at summer load water line 7770 Metric Tons
Summer freeboard = 945	Tons per inch immersion at summer load water line 13.40
Moulded draught (d) = 6.887	T = 11.820 Metric Tons per 1 cm.
Keel allowance =	Deduction = $\frac{\Delta}{40 T} \text{ inches} = \mathbf{1.49\%}$
Extreme draught =	
Deduction for Tropical freeboard and addition for =	
Winter freeboard = $\frac{d}{4} \text{ inches} = \mathbf{143\%}$	
Addition for Winter North Atlantic Freeboard (if required) =	

Deduction for Fresh Water.

Displacement in salt water at summer load water line 7770 Metric Tons
Tons per inch immersion at summer load water line 13.40
T = 11.820 Metric Tons per 1 cm.
Deduction = $\frac{\Delta}{40 T} \text{ inches} = \mathbf{1.49\%}$
at 6.730 M. draft.

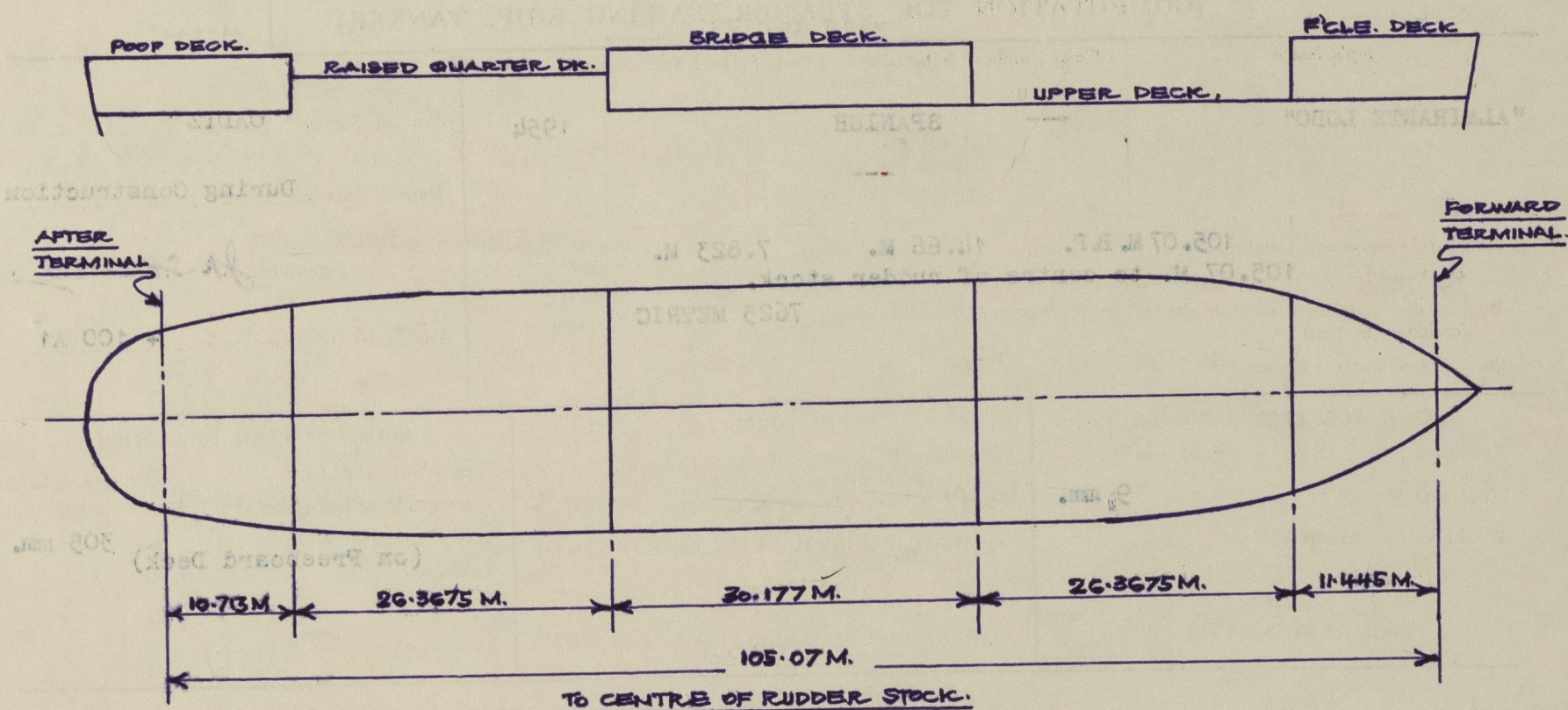
TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient 726 + 68 = 1.406	
Depth Correction ... 183	
Deduction for superstructures ... 602	
Sheer correction ... 79	
Round of Beam correction ... 1	
Correction for Thickness of Deck amidships ...	
Other corrections, scantlings, etc. ...	
183 682 - 499	
Summer Freeboard = 945	

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

Tropical Fresh Water Line above Centre of Disc 292%	11.50"	Tropical Fresh Water Freeboard 653	25.71"
Fresh Water Line " 149%	5.87"	Fresh Water " 796	31.34"
Tropical Line " 143%	5.63"	Tropical " 802	31.58"
Winter Line below " 143%	5.63"	Winter " 1088	42.84"
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.



PLAN AT FREEBOARD DK.

10.713
26.3675
30.177
26.3675
11.445
105.070

Trade of ship **Naval Store Ship.**

Names of sister ships **"ANCUD" (ex "TORREMOLINOS")**

Builder's name and yard number **ASTILLEROS DE CADIZ S.A. - YARD NO. 40**

Owners **MARINA DE GUERRA ESPAÑOLA**

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List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)

**MIDSHIP SECTION.
PROFILE AND DECKS.**



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Foundation