Amended computation.

Rpt. C.11 (Comp.).

Index No. 30889 (For London Office only)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
HABANA.		Spanish Barcelona		

Port of Survey

Date ~~of Survey~~ 24.7.47

Surveyor's Signature

Particulars of Classification ✠ 100A1 ~~[illegible]~~ with freeboard

Moulded Dimensions: Length 143.30M Breadth 18.59M Depth 10.90 M

Moulded displacement at moulded draught = 85 per cent. of moulded depth 17511 tons

Coefficient of fineness for use with Tables ·68 (actual ·678)

DEPTH FOR FREEBOARD (D).

Moulded depth ... ... 10·900

Stringer plate ... ... ·012

Sheathing on exposed deck $T\left(\frac{L-S}{L}\right) =$ –

Depth for Freeboard (D) = 10·912

DEPTH CORRECTION.

(a) Where D is greater than Table depth (D—Table depth) R = 8·33(10·912−9·753)30 = +290 m/m
1.159

(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) 18·590

Standard Round of Beam = $\frac{B \times 12}{50}$ (12 struck out) = 372 m/m

Ship's Round of Beam = 306 "

Difference 66 "

Restricted to

Correction = $\frac{Diff^e}{4} \times \left(1-\frac{S_1}{L}\right)$ = $\frac{66}{4}$ × ·0134 = Nil.

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
Poop enclosed Equiv. ...	8.44	8.44	2.44	–	8.44
„ overhang ... " ...	·47	·23	2.44	–	·23
R.Q.D. enclosed					
„ overhang					
Bridge enclosed					
„ overhang aft ...	·72	·54	2.44	–	·54
„ overhang forward ...					
F'cle enclosed and bridge	135·13	135·13	2.44	/	135·13
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward ...					
Total	144·76	144·34			144·34

Standard Height of Superstructure 2·290 M.

„ „ R.Q.D. –

Deduction for complete superstructure 1067 m/m.

Percentage covered $\frac{S}{L}$ = 98·95

„ „ $\frac{S_1}{L}$ = 98·66

„ „ $\frac{E}{L}$ = 98·66

Percentage from Table, Line A. (corrected for absence of forecastle (if required))

Percentage from Table, Line B. (corrected for absence of forecastle (if required)) 98·35

Interpolation for bridge less than ·2L (if required)

Deduction = 1067 × ·9835 = 1049

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	1473	1	1473	876	876	1	876
$\frac{1}{6}$L from A.P. ...	654	4	2616	229	229	4	916
$\frac{2}{6}$L „ ...	164	2	328	-51	-51	2	-102
Amidships ...	–	4	–	–	–	4	–
$\frac{2}{6}$L from F.P. ...	327	2	654	437	437	2	874
$\frac{1}{6}$L „ ...	1308	4	5232	1280	1280	4	5120
F.P.	2946	1	2946	2556	2556	1	2556
Total ...			13249				10240

$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}}$ = < 1

$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}}$ = < 1

$\frac{\text{Length of enclosed superstructure}}{L}$ forward of amidships = Not applicable sheers being deficient.

„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18}\left(\cdot75-\frac{S}{2L}\right)$ = $\frac{3009}{18}$(·75−·4947) = +43 m/m
·2553

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

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freebroad.

Depth to Freeboard Deck = 10·912 (Ft. struck out, M)

Summer freeboard = 2·222

Moulded draught (d) = 8·690

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

△ =

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\triangle}{40\,T}$ inches = 178 m/m

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~ 2446

Correction for coefficient Nil 2446

	+	–
Depth Correction	290	–
Deduction for superstructures	–	1049
Sheer correction	43	–
Round of Beam correction	–	–
Correction for Thickness of Deck amidships ...	–	–
Other corrections, scantlings, etc. to correspond with freeboard assigned by U.S. Coast Guard on behalf of the Spanish Authorities	492	
	825	1049

−224

Summer Freeboard = 2222

8.S. 25.7.47

ALL SEASONS ~~SUMMER~~ FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck :—

2222 m/m = 87.50"

Tropical Fresh Water Line above Centre of Disc 1425 (~~200~~)	... ~~178~~ 359	Tropical Fresh Water Freeboard	1863 (~~2044~~) "	= ~~80.50~~ 73.25
Fresh Water Line „ „ (~~700~~)	... 178 m/m	Fresh Water „	2044 "	= 80.50
Tropical Line „ „ (~~Nil~~)	... −181 7.25"	Tropical „	2041 ... ~~2222~~	= ~~87.50~~ 80.25
Winter Line below „ (~~Nil~~)	... +181 7.25"	Winter	2403 ... ~~2222~~	= ~~87.50~~ 94.75
~~Winter North Atlantic Line~~ „ „	... – ...	Winter North Atlantic „	...	...

5m T 11/41. McC.

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