

Amended Preliminary Basic
 Amended Preliminary Calculation. Min. Geometric.

Index. No. 30884.
 (For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name Habano	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 146.38 Breadth 18.592 Depth 13.335					Date of Survey 28.2.41
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature
Efficient of fineness for use with Tables 704 estimated					Particulars of Classification

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 13.335	(a) Where D is greater than Table depth	Moulded Breadth (B) 18.592 m
Upper plate ... 0.15	(D - Table depth) R = 8.33 (13.371 - 9.752) x 30 = +9.03 m/m	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{18.592 \times 12}{50} = 4.462$
Nothing on exposed deck	(b) Where D is less than Table depth (if allowed)	Ship's Round of Beam = 3.06
T $\left(\frac{L-S}{L}\right) = \frac{41.2}{146.38} \times 76 = 0.21$	(Table depth - D) R =	Difference deficiency = 66
Depth for Freeboard (D) = 13.371	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{66^2}{4} \times 0.8504 = +14 m/m$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Superstructure enclosed ...					
Overhang ...					
D. enclosed ...					
Overhang ...					
Large enclosed open ...	5.942	4.456	1.438	✓	4.456
Overhang aft ...					
Overhang forward ...					
Enclosed ...	17.439	17.439	1.438	✓	17.439
Overhang ...					
Deck aft ...					
Forward ...					
Deck opening aft ...					
Forward ...					
Total ...	23.381	21.895			21.895

Standard Height of Superstructure **2290 m/m**

" " R.Q.D. **✓**

Deduction for complete superstructure **1067 m/m**

Percentage covered $\frac{S}{L} = 15.97$

" " $\frac{S_1}{L} = 14.96$

" " $\frac{E}{L} = 14.96$

Percentage from Table, Line A. **7.48**

(corrected for absence of forecastle (if required)) **✓**

Percentage from Table, Line B. **9.47**

(corrected for absence of forecastle (if required)) **✓**

Interpolation for bridge less than 2L (if required) **7.48 (1.99 x 0.304) = 2.35**

Deduction = **1067 x 0.778 = -83 m/m = -7.78**

SHEER CORRECTION.

Position	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
...	1473	1		1473	876	876	1		876
At A.P. ...	655	4		2620	229	229	4		916
" ...	164	2		328	-51	-51	2		-102
At F.P. ...	327	2		654	437	437	2		874
" ...	1309	4		5236	1280	1280	4		5120
" ...	2947	1		2947	2556	2556	1		2556
Total ...				13258					10240

Correction = $\frac{\text{Difference between sums of products}}{18} = \frac{13258 - 10240}{18} = 167.11$

Limited on account of midship superstructure. **✓**

Mean actual sheer aft = **Deficient**

Mean standard sheer aft

Mean actual sheer forward = **Deficient**

Mean standard sheer forward

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

" " aft of " = **Deficient**

Correction for Tropical Freeboard.

Correction for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **13.426**

Summer freeboard = **3.494**

Moulded draught (d) = **9.932**

Correction for Tropical freeboard and addition for Summer freeboard = $\frac{d}{4}$ inches =

Correction 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 Flush Deck (if required)

Correction for coefficient

704 + 68 = 772

1.36

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

1084 - 83 = +1001

Summer Freeboard = **3494**

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

Tropical Fresh Water Line above Centre of Disc ...

Fresh Water Line ...

Tropical Line ...

Winter Line below ...

Winter North Atlantic Line ...

Tropical Fresh Water Freeboard ...

Fresh Water ...

Tropical ...

Winter ...

Winter North Atlantic ...

3494 m/m

2450 m/m

2493

85.8

1.3.41

3494 m/m

2450 m/m

2493

85.8

1.3.41