

CLYDE'S REGISTER OF SHIPPING. SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

poop, bridge and forecastle.

Port of Survey

Rotterdam

(Type of Superstructures.)

Date of Survey

13th Dec. 32.

Ship's Name

MASLUNDA

Nationality and Port of Registry

British
Glasgow

Official Number

160258

Gross Tonnage

5419

Date of Build

1929-7

Name of Surveyor

Particulars of Classification

-100 A1

Moulded Dimensions: Length 402'-0" Breadth 54'-9" Depth 31'-0 1/2"

Moulded displacement at moulded draught = 85 per cent. of moulded depth 12910 tons

Coefficient of fineness for use with Tables 778

Depth for Freeboard (D)

Moulded depth ...

Stringer plate ...

Sheathing on exposed deck

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) = 31.08

Depth correction

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

+ 12.84

(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)

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} =$$

$$\text{Ship's Round of Beam} =$$

Difference

Restricted to

$$\text{Correction} = \frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = -0.07$$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
Trunk enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...					

Standard Height of Superstructure 7.50

" " R.Q.D. -

Deduction for complete superstructure 42.00

$$\text{Percentage covered } \frac{S}{L} = 54.29\%$$

$$\text{" " } \frac{S_1}{L} = 53.38\%$$

$$\text{" " } \frac{E}{L} = 53.38\%$$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. **TIMBER.** 71.36

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

$$\text{Deduction} = 42.00 \times .7136 = -$$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1				1	
1/8 L from A.P. ...		4				4	
3/8 L " ...		2				2	
Amidships ...		4				4	
3/8 L from F.P. ...		2				2	
1/8 L " ...		4				4	
F.P. ...		1				1	
Total ...							

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(75 - \frac{S}{2L} \right) = -2.14$$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 31.08
Summer freeboard = 4.83
Moulded draught (d) = 26.25

Deduction for Tropical freeboard and addition for

$$\text{Winter freeboard} = \frac{d}{4} \text{ inches} = 6.56 = 6 \frac{1}{2}$$

Addition for Winter North Atlantic Freeboard (if

$$\text{required}) = \frac{26.25}{3} = 8.75 = 8 \frac{3}{4}$$

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$$\Delta =$$

Tons per inch immersion at summer load water line

$$T =$$

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

$$= 6 \frac{1}{2}$$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

	+	-
Depth Correction	12.84	-
Deduction for superstructures	-	29.97
Sheer correction	-	2.14
Round of Beam correction	-	.07
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	12.84	32.18
Summer Freeboard	57.98	

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

TIMBER	Tropical Fresh Water Line above Centre of Disc ...	26 1/4"
"	Fresh Water Line " " ...	19 3/4"
"	Tropical Line " " ...	19 3/4"
"	Winter Line below above ...	4 1/2"
"	Winter North Atlantic Line below above ...	6 1/2"

4'-10"	Tropical Fresh Water Freeboard ...	3'-9"
4'-3 1/2"	Fresh Water " " ...	4'-3 1/2"
4'-3 1/2"	Tropical " " ...	5'-6 3/4"
6'-5 3/4"	Winter " " ...	6'-5 3/4"
	Winter North Atlantic " " ...	

15 DEC 1932

RECEIVED 16 FEB 1938
RECEIVED 1 DEC 1933