

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name BERGO	Official Number	Nationality and Port of Registry FINNISH MARIEHAMN	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 50.635 Breadth 8.850 Depth 4.050					Date of Survey 13 FEB 1950
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables 718					Particulars of Classification

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth	(a) Where D is greater than Table depth (D-Table depth) R = + 73 ~/-	Moulded Breadth (B)
Stringer plate	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) =		Difference
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = - 4 ~/-$

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					
F'cle enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	19.545	19.415			19.415

Standard Height of Superstructure **1830 ~/-**

„ „ R.Q.D. _____

Deduction for complete superstructure **575 ~/-**

Percentage covered $\frac{S}{L} = 38.60$

„ „ $\frac{S_1}{L} = 38.35$

„ „ $\frac{E}{L} =$

Percentage from Table, Line A. **TIMBER 61.22**
(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 = **575 × 61.22 = - 352 ~/-**

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.		1				1	
$\frac{1}{4}L$ from A.P.		4				4	
$\frac{2}{4}L$ „		2				2	
Amidships		4				4	
$\frac{3}{4}L$ from F.P.		2				2	
$\frac{1}{4}L$ „		4				4	
F.P.		1				1	
Total							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = + 1 ~/-$

If limited on account of midship superstructure.

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

„ „ aft of „ =

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **4.059**

TIMBER Summer freeboard = **182**

Moulded draught (d) = **3.877**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48}$ inches = **81 ~/-**Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{36}$ inches = **108 ~/-**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

△ =

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40 T}$ inches= **82 ~/-**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **1.398/1.36**

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

+	-
73	✓
✓	352
1	✓
✓	4
✓	✓
✓	✓
✓	✓
74	356

Summer Freeboard = **182**

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

TIMBER	Tropical Fresh Water Line above Centre of Disc	388
„	Fresh Water Line	307
„	Tropical Line	306
„	Winter Line	117
„	Winter North Atlantic Line	127

Tropical Fresh Water Freeboard	19
Fresh Water	00
Tropical	00
Winter	290
Winter North Atlantic	334