

PRELIMINARY.
 LENGTHENED BY 2. TANKS. (19.8 M.). 65'
 Lloyd's Register of Shipping.
 SURVEYS FOR FREEBOARD.
 (COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index No. _____
 (For London Office only.)

Ship's Name WILLIAM BARENDZ.	Official Number	Nationality and Port of Registry DUTCH AMSTERDAM.	Gross Tonnage	Date of Build 1931/2.	Port of Survey _____
Moulded Dimensions: Length 168.39 M. Breadth 19.507 M. Depth 13.951 M.					Date of Survey 31-5-49.
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables 852. ESTIMATED.					Particulars of Classification _____

DEPTH FOR FREEBOARD (D).

Moulded depth **13.951.**

Stringer plate **0.22.**

Sheathing on exposed deck

$T \left(\frac{L-S}{L} \right) = \text{Not included.}$

Depth for Freeboard (D) = **13.973.**

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D - Table depth) R = **8.33(13.973 - 11.226) 30 = +687 m/m**

(b) Where D is less than Table depth (if allowed)
(Table depth - D) R = **2.747**

If restricted by superstructures **✓**

ROUND OF BEAM CORRECTION.

Moulded Breadth (B) **19.507.**

Standard Round of Beam = $\frac{B \times 24}{50} = \frac{390}{50} = \mathbf{390.}$

Ship's Round of Beam = **400.**

Difference **Excess.**

Restricted to

Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{10}{4} \times 8162 = \mathbf{2.}$

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					
Fore enclosed	28.890	28.890	2.44.	✓	28.890
„ overhang	4.125.	2.063.			2.063.
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	33.015.	30.953.			30.953.

Standard Height of Superstructure **2.290 M.**

„ „ R.Q.D. **✓**

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

Percentage covered $\frac{S}{L} = \frac{19.61}{19.507} = \mathbf{19.61.}$

„ „ $\frac{S_1}{L} = \frac{18.38}{19.507} = \mathbf{18.38.}$

„ „ $\frac{E}{L} = \frac{18.38}{19.507} = \mathbf{18.38.}$

Percentage from Table, Line A. **9.19.**

(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 = **1067 m/m** $\times 0.919 = \mathbf{-98 m/m.}$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	1657	1	1657.	1242	1242.	1	1242.
$\frac{1}{4}$ L from A.P.	736	4	2944	325	325	4	1300
$\frac{2}{4}$ L „	184	2	368	-	✓	2	✓
Amidships	✓	4	✓	✓	✓	4	✓
$\frac{3}{4}$ L from F.P.	368	2	736	-	✓	2	✓
$\frac{1}{4}$ L „	1472.	4	5888	460.	460.	4	1840
F.P.	3314.	1	3314.	2048.	2048.	1	2048.
Total			14907				6430

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - \frac{S}{2L}}{.75 - \frac{S}{2L}} \right) = \frac{8477}{18} \times .6519 = \mathbf{+307. m/m.}$

If limited on account of midship superstructure. **✓**

Mean actual sheer aft = **DEFICIENT.**

Mean standard sheer aft = **DEFICIENT.**

Mean actual sheer forward = **DEFICIENT.**

Mean standard sheer forward = **DEFICIENT.**

Length of enclosed superstructure forward of amidships = **NIL.**

„ „ aft of „ = **NIL.**

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **13.973.**

Summer freeboard = **4.440**

Moulded draught (d) = **9.533.**

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

$\Delta =$

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

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc. To

To A SUMMER MOULDED DRAUGHT

OF 31'-3".

+	-
687	✓
98	✓
307	✓
2	✓
66	✓
131	✓
1191	100
1091	

Summer Freeboard = **4440.**

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 „ „

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.

2 tanks ÷ 65 ft.

$$\frac{487.5 \times 64 \times 45.77 \times .832 \times .85}{38}$$

28880

$$\frac{65 \times 64 \times 45.77 \times .85 \times .99}{35}$$

4568
33440

$$\frac{33440 \times 35}{552.5 \times 64 \times 45.77 \times .85}$$

= .857

$$\frac{552.5 \times 168}{3.2104}$$

Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____



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