

*Equivalent Depth as Oil Tanker
Lengthened 32.48'*

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>William Barendsz</i>	Official Number ✓	Nationality and Port of Registry ✓	Gross Tonnage	Date of Build	Port of Survey _____
Moulded Dimensions: Length <i>519.98</i> Breadth <i>64.00</i> Depth <i>39.99</i>					Date of Survey <i>13.6.49.</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables <i>.834</i> ✓					Particulars of Classification _____

DEPTH FOR FREEBOARD (D).

Moulded depth *39.99*

Stringer plate *.06*

Sheathing on exposed deck

$T \left(\frac{L-S}{L} \right) =$ ✓

Depth for Freeboard (D) = *40.05* ✓

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D-Table depth) R = *(40.05-39.99) 3 = +16.14* ✓

(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) _____

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

Ship's Round of Beam _____

Difference _____

Restricted to _____

Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L}\right) =$ *NIL* ✓

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					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total					

Standard Height of Superstructure *7.50* ✓

„ „ R.Q.D. _____

Deduction for complete superstructure *42.00* ✓

Percentage covered $\frac{S}{L} =$ *40%* ✓

„ „ $\frac{S_1}{L} =$ *40%* ✓

„ „ $\frac{E}{L} =$ *40%* ✓

Percentage from Table, Line *A. Tanker* *31.00* ✓
(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 = *42.00 × .31 = 13.02* ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	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	
$\frac{4}{4}$ L „		4				4	
F.P.		1				1	
Total							

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

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 „ = _____

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.**Deduction for Tropical Freeboard.****Addition for Winter and Winter North Atlantic Freeboard.**

Depth to Freeboard Deck = *40.05* Ft.

Summer freeboard = *8.80*

Moulded draught (d) = *31.25*

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 *16.14*

Deduction for superstructures *13.02*

Sheer correction *-*

Round of Beam correction *-*

Correction for Thickness of Deck amidships *-*

Other corrections, scantlings, etc. *-*

Summer Freeboard = *105.64* ✓**SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—**

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line „ „	Fresh Water „ „
Tropical Line „ „	Tropical „ „
Winter Line below „ „	Winter „ „
Winter North Atlantic Line „ „	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.

$$D = 31.25 + \frac{89.50}{12} + \frac{(D - 34.67)3}{12}$$

$$12D = 375.00 + 89.50 + 3D - 104.01$$

$$9D = 360.49$$

$$D = 40.05$$

$$\begin{array}{r} 375.00 \\ 89.50 \\ \hline 464.50 \\ 104.01 \\ \hline 360.49 \end{array}$$

Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____



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