

Equivalent Depth as Oil Tanker
Length 64.96'

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>Willem Barndag</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>552.46'</i> Breadth <i>64.00'</i> Depth <i>40.27'</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>852.840</i>					Particulars of Classification

DEPTH FOR FREEBOARD (D).

Moulded depth *40.27*

Stringer plate *06*

Sheathing on exposed deck

$T \left(\frac{L-S}{L} \right) =$ *27*

Depth for Freeboard (D) = *40.25*

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D-Table depth) R = *(40.25 - 36.83) 3 = +10.56*

(b) Where D is less than Table depth (if allowed)
(Table depth-D) R = *3.52*
3.44 +10.32

If restricted by superstructures

ROUND OF BEAM CORRECTION.

Moulded Breadth (B)

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

Ship's Round of Beam = *Standard*

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					
F'cle 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 $\frac{S}{L} =$

„ „ $\frac{S_1}{L} =$ *40%*

„ „ $\frac{E}{L} =$

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			<i>S</i>		1		
$\frac{1}{4}$ L from A.P.		4			<i>T</i>		4		
$\frac{2}{4}$ L „		2			<i>A</i>		2		
Amidships		4			<i>N</i>		4		
$\frac{3}{4}$ L from F.P.		2			<i>D</i>		2		
$\frac{1}{4}$ L „		4			<i>A</i>		4		
F.P.		1			<i>R</i>		1		
Total					<i>D</i>				

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 = *40.27*

Summer freeboard = *9.04*

Moulded draught (d) = *31.26*

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.

+	-
<i>10.32</i>	<i>13.02</i>
<i>32</i>	
<i>10.56</i>	<i>13.02</i>

Summer Freeboard = *109.19*

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.

$$D = 31.25 + \frac{98.63}{12} + \frac{(D - 36.83)3}{12}$$

$$12D = 375.00 + 98.63 + 3D - 110.49$$

$$9D = 363.14$$

$$D = 40.35$$

$$\begin{array}{r} 375.00 \\ 98.63 \\ \hline 473.63 \\ 110.49 \\ \hline 363.14 \end{array}$$

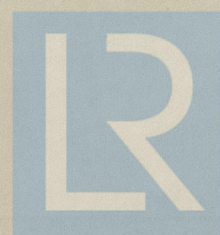
Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____



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