

(4)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

As a Cargo Vessel Lengthened 64' 96"

Ship's Name <i>Willem Barndsz.</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
					Date of Survey <i>13.6.49.</i>
Moulded Dimensions: Length <i>552.46'</i> Breadth <i>64.00'</i> Depth <i>40.21'</i>					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Particulars of Classification
Coefficient of fineness for use with Tables <i>852.840</i>					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth <i>40.21</i>	(a) Where D is greater than Table depth (D - Table depth) R = <i>(40.21 - 36.83) 3 = +10.32</i>	Moulded Breadth (B)
Stringer plate <i>.06</i>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <i>3.44</i>	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = <i>Standard</i>
Depth for Freeboard (D) = <i>40.27</i>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_i}{L} \right) =$ <i>N.L.</i>

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	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 $\frac{S}{L} =$

„ „ $\frac{S_i}{L} =$ *40%*

„ „ $\frac{E}{L} =$

Percentage from Table, Line A. *23.50*
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. *27.50*
(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required) *25.50*

Deduction = *42.00 × .255 = 10.71. ✓*

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1		<i>S</i>		1	
$\frac{1}{6}L$ from A.P.		4		<i>T</i>		4	
$\frac{2}{6}L$ „		2		<i>A</i>		2	
Amidships		4		<i>N</i>		4	
$\frac{2}{6}L$ from F.P.		2		<i>D</i>		2	
$\frac{1}{6}L$ „		4		<i>A</i>		4	
F.P.		1		<i>R</i>		1	
Total				<i>D</i>			

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

$\frac{L}{L}$

„ „ aft of „ =

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

If limited on account of midship superstructure.

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 = *10.87*

Moulded draught (d) = *29.40*

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>10.71</i>
<i>-</i>	<i>-</i>
<i>-</i>	<i>-</i>
<i>-</i>	<i>-</i>
<i>-</i>	<i>-</i>
<i>10.32</i>	<i>10.71</i>

Summer Freeboard = *121.71* *130.45*

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 „ „

Summer Moulded draught = 29.40'