

*As a Cargo Vessel
Lengthened 64'96"*

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

4

Ship's Name <i>Willem Barendsz.</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

<p>DEPTH FOR FREEBOARD (D).</p> <p>Moulded depth <i>40.27</i></p> <p>Stringer plate <i>.06</i></p> <p>Sheathing on exposed deck</p> <p>$T \left(\frac{L-S}{L} \right) =$</p> <p>Depth for Freeboard (D) = <i>40.27</i></p>	<p>DEPTH CORRECTION.</p> <p>(a) Where D is greater than Table depth (D-Table depth) R = $(40.27 - 36.83) \times 3 = +10.32$</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 3.44</p> <p>If restricted by superstructures <input checked="" type="checkbox"/></p>	<p>ROUND OF BEAM CORRECTION.</p> <p>Moulded Breadth (B)</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} =$</p> <p>Ship's Round of Beam = <i>Standard</i></p> <p>Difference</p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \text{NIL}$</p>
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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. *1*

Deduction for complete superstructure *42.00*

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

" " $\frac{S_1}{L} = 40\%$

" " $\frac{E}{L} =$

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 = $42.00 \times .255 = 10.71$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1		<i>S</i>		1	
$\frac{1}{8}L$ from A.P.		4		<i>T</i>		4	
$\frac{2}{8}L$ "		2		<i>A</i>		2	
Amidships		4		<i>N</i>		4	
$\frac{2}{8}L$ from F.P.		2		<i>D</i>		2	
$\frac{1}{8}L$ "		4		<i>A</i>		4	
F.P.		1		<i>R</i>		1	
Total				<i>D</i>		1	

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 " =

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

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <i>40.27</i></p> <p>Summer freeboard = <i>10.87</i></p> <p>Moulded draught (d) = <i>29.40</i></p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =</p> <p>Addition for Winter North Atlantic Freeboard (if required) =</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$</p> <p>Tons per inch immersion at summer load water line</p> <p>T =</p> <p>Deduction = $\frac{\Delta}{40 T}$ inches =</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient $\frac{840 + .68}{1.36} = 782$</p> <table border="1"> <tr><td>+</td><td>-</td></tr> <tr><td>10.32</td><td>-</td></tr> <tr><td>-</td><td>10.71</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>10.32</td><td>10.71</td></tr> </table> <p>Summer Freeboard = <i>121.71</i></p>	+	-	10.32	-	-	10.71	-	-	-	-	-	-	-	-	10.32	10.71
+	-																	
10.32	-																	
-	10.71																	
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-	-																	
-	-																	
10.32	10.71																	

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 " "