

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

Ship's Name <i>Puriri</i> <i>Henry Robbs Year No 273</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>180.0</i> Breadth <i>35.0</i> Depth <i>14.0</i>					Date of Survey <i>18.1.38</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables <i>assumed 5.78</i>					Particulars of Classification <i>100A1 with fb</i> <i>(Contingent)</i>

<b>Depth for Freeboard (D).</b> Moulded depth <i>assumed 11.92</i> Stringer plate <i>1.04</i> Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <i>11.96</i>	<b>Depth correction.</b> (a) Where D is greater than Table depth (D-Table depth) R = <i>✓</i> (b) Where D is less than Table depth (if allowed) (Table depth-D) R = <i>(12.00-11.96) x 1.385 = -0.06</i> If restricted by superstructures <i>1.04</i>	<b>Round of Beam correction.</b> Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference <i>assumed none</i> Restricted to Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <i>Nil ✓</i>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<i>98.25 ✓</i>	<i>98.25 ✓</i>			<i>98.25 ✓</i>
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward					
F'cle enclosed ...	<i>31.25 ✓</i>	<i>31.25 ✓</i>			<i>31.25 ✓</i>
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward					
Total ...	<i>129.50 ✓</i>	<i>129.50 ✓</i>			<i>129.50 ✓</i>

Standard Height of Superstructure <i>6.0 ✓</i>
„ „ R.Q.D. <i>✓</i>
Deduction for complete superstructure <i>24.0 ✓</i>
Percentage covered $\frac{S}{L} =$
„ „ $\frac{S_1}{L} =$ <i>71.94 ✓</i>
„ „ $\frac{E}{L} =$
Percentage from Table, Line A. <i>65.39 ✓</i>
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. <i>✓</i>
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = <i>24 x 65.39 = 15.69 ✓</i>

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1				1	<i>✓</i>
$\frac{1}{8}L$ from A.P. ...		4				4	
$\frac{2}{8}L$ „ ...		2				2	
Amidships ...		4				4	
$\frac{2}{8}L$ from F.P. ...		2				2	
$\frac{1}{8}L$ „ ...		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 =  
L

„ „ aft of „ =

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

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b> Ft. Depth to Freeboard Deck = <i>11.96 ✓</i> Summer freeboard = <i>1.46 ✓</i> Moulded draught (d) = <i>11.50 ✓</i> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	<b>Deduction for Fresh Water.</b> 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 =	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) Correction for coefficient <i>1.78 + 0.68 = 1.46</i> <i>1.36</i> + - Depth Correction ... <i>0.06 ✓</i> Deduction for superstructures ... <i>15.69 ✓</i> Sheer correction ... Round of Beam correction ... Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... Summer Freeboard = <i>5.51 ✓</i>	<i>19.80 ✓</i> <i>21.26 ✓</i> <i>15.75 ✓</i> <i>-15.75 ✓</i>
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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 „ „ ...	...