

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>S/S KIUNGCHOW</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey _____ Date of Survey <i>6.12.46</i> Surveyor's Signature _____ Particulars of Classification <i>Complete</i>
Moulded Dimensions: Length <i>310.0</i> Breadth <i>44.0</i> Depth <i>23.0</i>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables <i>say .72</i>					

DEPTH FOR FREEBOARD (D). Moulded depth ... <i>23.0</i> Stringer plate ... <i>5.2</i> ... <i>.04</i> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = \frac{3}{12} \times 2488 = .06$ Depth for Freeboard (D) = <i>23.10</i>	DEPTH CORRECTION. (a) Where D is greater than Table depth $(D - \text{Table depth}) R = (23.0 - 20.67) 2.384 = +5.79$ (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) <i>44.00</i> Standard Round of Beam = $\frac{B \times 12}{50} = 10.56$ Ship's Round of Beam = <i>11.00</i> Difference <i>44</i> Restricted to _____ Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{44}{4} \times 2488 = -108$
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DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<i>189.5</i>	<i>189.5</i>	<i>7.25</i>	-	<i>189.5</i>
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	<i>43.33</i>	<i>43.33</i>	<i>7.25</i>	-	<i>43.33</i>
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	<i>232.83</i>	<i>232.83</i>			<i>232.83</i>

Standard Height of Superstructure *6.6*
 " " R.Q.D. *36*
 Deduction for complete superstructure _____
 Percentage covered $\frac{S}{L} = \frac{232.83}{310} = 75.12$
 " " $\frac{S_1}{L} =$ _____
 " " $\frac{E}{L} =$ _____
 Percentage from Table, Line A. _____
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. *69.30*
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than .2L (if required) _____
 Deduction = $36 \times 69.30 = 24.95$

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	<i>41.00</i>	1		<i>41</i>		1	
$\frac{1}{4}$ L from A.P. ...		4				4	
$\frac{2}{8}$ L " ...		2				2	
Amidships ...		4				4	
$\frac{2}{8}$ L from F.P. ...		2				2	
$\frac{1}{4}$ L " ...		4				4	
F.P. ...	<i>82.00</i>	1		<i>82</i>		1	
Total ...			<i>36.90</i>				

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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \text{Nil.}$ (Nullity for poop and forecastle height)
 If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <i>23.04</i> Summer freeboard = <i>2.27</i> Moulded draught (d) = <i>20.77</i> 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 <i>1.72</i> <i>1.68</i> <i>1.40</i> <i>1.36</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction ...</td> <td><i>5.79</i></td> <td></td> </tr> <tr> <td>Deduction for superstructures ...</td> <td></td> <td><i>24.95</i></td> </tr> <tr> <td>Sheer correction ...</td> <td></td> <td><i>1.03</i></td> </tr> <tr> <td>Round of Beam correction ...</td> <td></td> <td><i>.72</i></td> </tr> <tr> <td>Correction for Thickness of Deck amidships ...</td> <td></td> <td></td> </tr> <tr> <td>Other corrections, scantlings, etc. ...</td> <td></td> <td></td> </tr> <tr> <td>Summer Freeboard</td> <td>25.70</td> <td>-19.91</td> </tr> <tr> <td></td> <td></td> <td>27.34</td> </tr> </table>		+	-	Depth Correction ...	<i>5.79</i>		Deduction for superstructures ...		<i>24.95</i>	Sheer correction ...		<i>1.03</i>	Round of Beam correction ...		<i>.72</i>	Correction for Thickness of Deck amidships ...			Other corrections, scantlings, etc. ...			Summer Freeboard	25.70	-19.91			27.34
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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 ...	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.

*Shear Keel
Star Deck all out*

27-0	2-11 + 6	= 41
25-6	1-5	17
24-4	3	3
24-1	-	
24-11	10	10
26-10	2-9	33
30-0	5-11 + 11	<u>82</u>

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £ : :



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Foundation