

Timber

Index. No.  
(For London Office only).

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>HINSANG</b>	Official Number	Nationality and Port of Registry <b>British Hong Kong</b>	Gross Tonnage	Date of Build <b>1941</b>	Port of Survey
Moulded Dimensions: Length <b>350</b> ✓ Breadth <b>53</b> ✓ Depth <b>26</b> ✓					Date of Survey <b>31-3-41</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature
Coefficient of fineness for use with Tables <b>.726</b> ✓					Particulars of Classification <b>7100 41</b>

<b>Depth for Freeboard (D).</b> Moulded depth ... Stringer plate ... Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) =	<b>Depth correction.</b> (a) Where D is greater than Table depth (D-Table depth) R = <b>+7.27</b> ✓ (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	<b>Round of Beam correction.</b> Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference Restricted to Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <b>- .04</b> ✓
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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 ...	<b>219.83</b>		<b>7.5</b>		
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed ...	<b>32.67</b>		<b>7.5</b>		
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward					
Total ...					

Standard Height of Superstructure \_\_\_\_\_  
„ „ R.Q.D. \_\_\_\_\_  
Deduction for complete superstructure **38.67** ✓  
Percentage covered  $\frac{S}{L} =$   
„ „  $\frac{S_1}{L} =$   
„ „  $\frac{E}{L} =$  **72.15** ✓  
Percentage from Table, Line A. **Timber 82.79** ✓  
(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 = **38.67 × .8279 = -32.02** ✓

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1					1		
$\frac{1}{8}L$ from A.P. ...		4					4		
$\frac{2}{8}L$ „ ...		2					2		
Amidships ...		4					4		
$\frac{3}{8}L$ from F.P. ...		2					2		
$\frac{4}{8}L$ „ ...		4					4		
F.P. ...		1					1		
Total ...									

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  **+ .11** ✓  
If limited on account of midship superstructure.  
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> Depth to Freeboard Deck = <b>26.03</b> Ft. Summer freeboard = <b>2.81</b> Moulded draught (d) = <b>23.22</b> ✓ Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <b>5.80 = 5<math>\frac{3}{4}</math></b> ✓ Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 7.74 = 7\frac{3}{4}$ ✓	<b>Deduction for Fresh Water.</b> Displacement in salt water at summer load water line $\Delta =$ <b>9020</b> ✓ Tons per inch immersion at summer load water line $T =$ <b>37.10</b> ✓ Deduction = $\frac{\Delta}{40T}$ inches = <b>6.08</b> ✓ <b>6</b> inches	<b>TABULAR FREEBOARD</b> corrected for Fresh Deck (if required) Correction for coefficient Depth Correction ... <b>7.27</b> ✓ Deduction for superstructures ... <b>32.02</b> ✓ Sheer correction ... <b>.11</b> ✓ Round of Beam correction ... <b>.04</b> ✓ Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... <b>7.38</b> <b>32.06</b> <b>-24.68</b> ✓ Summer Freeboard = <b>33.73</b> ✓
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**Timber** SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: **2'-9 $\frac{3}{4}$ \"**

<b>Timber</b> Tropical Fresh Water Line above Centre of Disc <b>18<math>\frac{1}{4}</math>\"</b>	<b>Timber</b> Tropical Fresh Water Freeboard ... <b>1'-10\"</b> ✓
„ Fresh Water Line „ <b>12<math>\frac{1}{2}</math>\"</b>	„ Fresh Water „ <b>2'-3<math>\frac{3}{4}</math>\"</b> ✓
„ Tropical Line „ <b>12<math>\frac{1}{4}</math>\"</b>	„ Tropical „ <b>2'-4\"</b> ✓
„ Winter Line below „ <b>1<math>\frac{1}{4}</math>\"</b>	„ Winter „ <b>3'-5<math>\frac{1}{2}</math>\"</b> ✓
„ Winter North Atlantic Line „ <b>5<math>\frac{3}{4}</math>\"</b>	„ Winter North Atlantic „ <b>3'-10\"</b> ✓
„ Summer above „ <b>6<math>\frac{1}{2}</math>\"</b>	

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