

Preliminary Computation  
Geometric draught as STEAMER

Including open bridge  
class closing appliances  
on poop  
bulkhead

Index No. (For London Office only).

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>S.H.W.R 1708</b>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <b>410.67</b> Breadth <b>56.5</b> Depth <b>19.5</b>					Date of Survey <b>21.3.41</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature
Coefficient of fineness for use with Tables <b>742</b>					Particulars of Classification

<b>Depth for Freeboard (D).</b> Moulded depth ... <b>19.50</b> Stringer plate ... <b>.05</b> Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ <b>-</b> Depth for Freeboard (D) = <b>19.55</b>	<b>Depth correction.</b> (a) Where D is greater than Table depth (D-Table depth) R = <b>+6.51"</b> (b) Where D is less than Table depth (if allowed) (Table depth-D) R = <b>✓</b> If restricted by superstructures <b>✓</b>	<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 = $\frac{\text{Diff}^2}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <b>Nie.</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 ...					
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...	<b>134.91</b>	<b>321.31</b>			<b>31.20</b>

Standard Height of Superstructure **7.51**  
 „ „ R.Q.D. **✓**  
 Deduction for complete superstructure **42.00**  
 Percentage covered  $\frac{S}{L} =$  **58.42**  
 „ „  $\frac{S_1}{L} =$  **78.24**  
 „ „  $\frac{E}{L} =$  **75.78**  
 Percentage from Table, Line A. **20.11 ✓**  
 (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 = **42.00 x .2011 = -24.45**

### 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		
$\frac{2}{8}L$ from E.P. ...		2					2		
$\frac{1}{8}L$ „ ...		4					4		
E.P. ...		1					1		
Total ...									

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{75-S}{21L} \right) =$   
 If limited on account of midship superstructure. **Yes no allowance**  
 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 „ =

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <b>19.55</b> Summer freeboard = <b>4.60</b> Moulded draught (d) = <b>24.95</b> 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 Tons per inch immersion at summer load water line T = Deduction = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <b>1.422 / 1.36</b> Depth Correction ... <b>6.51</b> Deduction for superstructures ... <b>19.45</b> Sheer correction ... Round of Beam correction ... Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... Summer Freeboard = <b>55.28</b>
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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 „ „ ...	...