

# LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received .....

Index No. ....

Govt. Copy .....

Owners C11 .....

Ship's Name <b>"STANBELL"</b>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <u>477.71'</u> Breadth <u>68.00'</u> Depth <u>36.00'</u> Freeboard Length <u>477.71'</u> Moulded displacement at moulded draught = 85 per cent. of moulded depth ..... tons Coefficient of fineness for use with Tables <u>.756</u>					Date of Survey <u>20th June, 1918.</u> Surveyor's Signature _____ Particulars of Classification <u>+100A1</u> <u>(Ore Carrier Contemplated)</u>

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... .. <u>36.00</u> Stringer plate ... .. <u>.07</u> Wood Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>36.07</u>	(a) Where D is greater than Table depth (D - Table depth) R = <u>(36.07 - 31.85) 3.0 = +12.66'</u> (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures	Moulded Breadth (B) <u>68.00</u> Standard Round of Beam = $\frac{B \times 12}{50} =$ <u>16.32</u> Ship's Round of Beam = <u>17.00</u> Difference <u>.68</u> Restricted to Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S}{L} \right) =$ <u><math>\frac{.68}{4} \times .473 = .08</math></u>

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>i</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed (equiv.) ...	<u>114.06</u>	<u>114.06</u>	<u>7.5</u>	<u>-</u>	<u>114.06</u>
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	<u>34.50</u>	<u>34.50</u>	<u>7.5</u>	<u>-</u>	<u>34.50</u>
" overhang ...					
Trunk aft ... <u>32.44</u>		<u>115.50</u>	<u>7.5</u>	<u>-</u>	<u>115.50</u>
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	<u>148.56</u>	<u>264.06</u>			<u>264.06</u>

Standard Height of Superstructure 7.5'  
 " " R.Q.D. ✓  
 Deduction for complete superstructure 42.00'  
 Percentage covered  $\frac{S}{L} =$  31.10 ✓  
 " "  $\frac{E}{L} =$  39.38 ✓  
 Percentage from Table, Line A. 39.38 ✓  
 (corrected for absence of forecastle (if required))  
 Percentage from Table, Line B. 46.80 ✓  
 (corrected for absence of forecastle (if required))  
 Interpolation for bridge less than .2L (if required)  
 Deduction = 42.00 × .3938 = -16.54  
46.80 = -19.66 ✓

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1					1		
$\frac{1}{4}L$ from A.P. ...		4					4		
$\frac{2}{4}L$ " ...		2					2		
Amidships ...	○	4	○	○	○	○	4	○	○
$\frac{2}{4}L$ from F.P. ...		2					2		
$\frac{1}{4}L$ " ...		4					4		
F.P. ...		1					1		
Total ...				<u>519.94</u>					<u>323.87</u>

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{196.07}{18} \left( .75 - \frac{.1355}{.5945} \right) = +6.48$  ✓  
 If limited on account of midship superstructure. If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

## 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

Depth Correction ... .. 12.66  
 Deduction for superstructures ... .. 16.54  
 Sheer correction ... .. 6.48  
 Round of Beam correction ... .. .08  
 Correction for Thickness of Deck amidships ... ..  
 Other corrections, scantlings, etc. ... ..

	+	-
Depth Correction	<u>12.66</u>	
Deduction for superstructures		<u>16.54</u>
Sheer correction	<u>6.48</u>	
Round of Beam correction		<u>.08</u>
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
<b>Summer Freeboard</b>	<u>19.14</u>	<u>16.62</u>

Summer Freeboard = 103.48 ✓

## SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

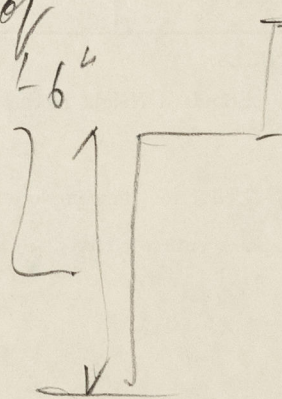
Tropical Fresh Water Line above Centre of Disc ... ..  
 Fresh Water Line " " ... ..  
 Tropical Line " " ... ..  
 Winter Line below " " ... ..  
 Winter North Atlantic Line " " ... ..

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.

Height of  
trunk 7'-6"



Hatch coaming  
more than 2' high

7'-6 can  
be used  
with compm.

Trade of ship .....

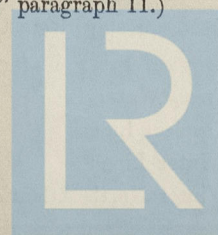
Names of sister ships .....

Builder's name and yard number .....

Owners .....

Fee £ : :

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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