

Standard Tanker

pt. C.11.

Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD.

Index. No. _____
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having 40% erection
(Type of Superstructures.)

Port of Survey _____

Date of Survey _____

Name of Surveyor _____

Particulars of Classification _____

Ship's Name <i>Jama Clark Ron</i>	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
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Moulded Dimensions: Length 535.25 Breadth _____ Depth 40.15

Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons

Coefficient of fineness for use with Tables .846

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D - Table depth) R = <u>(40.81 - 35.68) 3 = 39.39</u>	Moulded Breadth (B) _____
Stringer plate	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = _____	Standard Round of Beam = $\frac{B \times 12}{50} =$ _____
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ _____	If restricted by superstructures _____	Ship's Round of Beam = _____
Depth for Freeboard (D) = <u>48.81</u>		Difference _____
		Restricted to _____
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ _____

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	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					

Standard Height of Superstructure _____

„ „ R.Q.D. _____

Deduction for complete superstructure 42

Percentage covered $\frac{S}{L} =$ _____

„ „ $\frac{S_1}{L} =$ _____

„ „ $\frac{E}{L} =$ 40%

Percentage from Table, Line A. (corrected for absence of forecastle (if required)) Tanker

Percentage from Table, Line B. (corrected for absence of forecastle (if required)) 31

Interpolation for bridge less than 2L (if required) _____

Deduction = .31 x 42 = 13.02

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{6}L$ from A.P.		4					4		
$\frac{2}{6}L$ „		2					2		
Amidships		4					4		
$\frac{2}{6}L$ from F.P.		2					2		
$\frac{1}{6}L$ „		4					4		
F.P.		1					1		
Total									

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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ _____

If limited on account of midship superstructure. _____

If limited to maximum allowance of 1½ ins. per 100 ft. _____

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <u>48-9$\frac{3}{4}$</u></p> <p>Summer freeboard = <u>11-1$\frac{1}{2}$</u></p> <p>Moulded draught (d) = <u>37-8$\frac{1}{2}$</u></p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____</p> <p>Addition for Winter North Atlantic Freeboard (if required) = _____</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line _____</p> <p>$\Delta =$ _____</p> <p>Tons per inch immersion at summer load water line _____</p> <p>T = _____</p> <p>Deduction = $\frac{\Delta}{40T}$ inches = _____</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required) <u>95.45</u></p> <p>Correction for coefficient <u>107.60</u></p> <table border="1"> <tr><td>+</td><td>-</td></tr> <tr><td>Depth Correction</td><td><u>39.39</u></td></tr> <tr><td>Deduction for superstructures</td><td><u>13.02</u></td></tr> <tr><td>Sheer correction</td><td></td></tr> <tr><td>Round of Beam correction</td><td></td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td></td></tr> <tr><td>Other corrections, scantlings, etc.</td><td></td></tr> <tr><td><u>39.39</u></td><td><u>13.02</u></td></tr> </table> <p>Summer Freeboard = <u>133.47</u></p>	+	-	Depth Correction	<u>39.39</u>	Deduction for superstructures	<u>13.02</u>	Sheer correction		Round of Beam correction		Correction for Thickness of Deck amidships		Other corrections, scantlings, etc.		<u>39.39</u>	<u>13.02</u>
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck: © 2020

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 „ „