

Preliminary As a Tanker (Scheme A) 2

FINAL PRELIMINARY COMPUTATION

Index. No. 35863  
(For London Office only).

# Lloyd's Register of Shipping.

TO GIVE DRAUGHT OF 20'10" MLD

## SURVEYS FOR FREEBOARD.

DECKHOUSE ON POOP DECK OF POOP SCANTLING'S SEE PLAN APPROVED  
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.) 28/2/39

Ship's Name <i>Messrs Rotterdam Drydock Co's</i> <i>No 213.</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>430.00</i> Breadth <i>62.50</i> Depth <i>24.50</i>					Date of Survey <i>16<sup>th</sup> Nov 1938</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables <i>.800</i>					Particulars of Classification <i>100 A1.</i> <i>Carrying Petroleum in bulk</i> <i>(contemplated)</i>

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... .. <i>24.50</i>	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Stringer plate ... .. <i>.05</i>	(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 <i>12.36 x <math>\frac{7.00}{7.50} = 11.53</math></i>	Ship's Round of Beam =
Depth for Freeboard (D) = <i>24.55</i>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^\circ}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <i>nil</i>

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ... ..	<i>104.32</i>	<i>104.32</i>	<i>7.00</i>	<i>7.00</i>	<i>97.32</i>	Standard Height of Superstructure <i>7.50</i>
" overhang ... ..						" " R.Q.D. ✓
R.Q.D. enclosed ... ..						Deduction for complete superstructure <i>42.00</i>
" overhang ... ..						Percentage covered $\frac{S}{L} =$ <i>38.21</i> ✓
Bridge enclosed ... ..						" " $\frac{S_1}{L} =$ <i>76.53</i> ✓
" overhang aft ... ..						" " $\frac{E}{L} =$ <i>72.36</i> ✓
" overhang forward ... ..						Percentage from Table, Line A. ✓
F'cle enclosed ... ..	<i>60.00</i>	<i>60.00</i>	<i>10.50</i>	✓	<i>60.00</i>	(corrected for absence of forecastle (if required)) ✓
" overhang ... ..						Percentage from Table, Line B. <i>TANKER 65.90</i> ✓
Trunk aft } ... ..		<i>164.76</i>	<i>7.00</i>	<i>7.00</i>	<i>153.77</i>	(corrected for absence of forecastle (if required)) ✓
" forward } ... ..						Interpolation for bridge less than 2L (if required) ✓
Tonnage opening aft ... ..						Deduction = <i>42.00 x 65.90 = - 27.68</i> ✓
" " forward ... ..						
Total ... ..	<i>164.32</i>	<i>329.08</i>			<i>311.14</i>	

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ... ..		1				1	
$\frac{1}{2}L$ from A.P. ... ..		4				4	
$\frac{2}{3}L$ " ... ..		2				2	
Amidships ... ..		4				4	
$\frac{2}{3}L$ from F.P. ... ..		2				2	
$\frac{1}{2}L$ " ... ..		4				4	
F.P. ... ..		1				1	
Total ... ..			<i>477.04</i>				<i>233.80</i>

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) =$   
If limited on account of midship superstructure. ✓

Mean actual sheer aft = *Deficient*  
Mean standard sheer aft

Mean actual sheer forward = *Deficient*  
Mean standard sheer forward

Length of enclosed superstructure forward of amidships = } *Deficient*  
" " aft of " = } *Sheer.*

= +7.55

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 = *24.55* ✓  
Summer freeboard = *3.71* ✓  
Moulded draught (d) = *20.84* ✓

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

Δ =

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

*1.78**1.36*

Depth Correction

*11.53*

Deduction for superstructures

*27.68*

Sheer correction

*7.55*

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc. ...

*7.55 39.21 31.66*Summer Freeboard = *44.41* ✓

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 " " " " " " " "