

Preliminary Comp (E.H.V.)  
LLOYD'S REGISTER OF SHIPPING  
SURVEYS FOR FREEBOARD  
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received .....  
Index No.....  
Govt. Copy .....  
Owners C11.....

Ship's Name <i>Richard Dunston</i> Yard No <i>S 780/1</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>170</i> Breadth <i>36</i> Depth <i>17</i>					Date of Survey <i>6.1.61</i>
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)					Particulars of Classification <i>+100A 1</i>
Coefficient of fineness for use with Tables <i>Say 75</i>					<i>Hopper Barge</i>

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... <i>17</i>	(a) Where D is greater than Table depth (D - Table depth) R = <i>(17.04 - 11.33) 1.307 = 7.42</i>	Moulded Breadth (B) <i>36</i>
Stringer plate ... <i>04</i>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 8.64$
Wood Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam <i>above = 11.33</i>
Depth for Freeboard (D) = <i>17.04</i>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) = \text{Nil}$

DEDUCTION FOR SUPERSTRUCTURES.					Standard Height of Superstructure
	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	R.Q.D.
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 ...					

Percentage covered  $\frac{S}{L} =$   
" "  $\frac{S_1}{L} =$   
" "  $\frac{E}{L} =$   
Percentage from Table, Line A.  
(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 = *Nil*

SHEER CORRECTION.							
Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S
A.P. ...	<i>27</i>	1			<i>27</i>		1
$\frac{1}{8}L$ from A.P. ...		4					4
$\frac{2}{8}L$ " ...		2					2
Amidships ...	<i>0</i>	4	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	4
$\frac{2}{8}L$ from F.P. ...		2					2
$\frac{1}{8}L$ " ...		4					4
F.P. ...	<i>54</i>	1			<i>54</i>		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 =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \text{Nil}$   
If limited on account of midship superstructure.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient
Depth to Freeboard Deck = <i>17.04</i>	$\Delta =$	Depth Correction ... <i>7.42</i>
Summer freeboard = <i>2.1</i>	Tons per inch immersion at summer load water line	Deduction for superstructures ...
Moulded draught (d) = <i>14.54</i>	T =	Sheer correction ...
Keel allowance =	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction ...
Extreme draught =		Correction for Thickness of Deck amidships ...
Deduction for Tropical freeboard and addition for =		Other corrections, scantlings, etc. ...
Winter freeboard = $\frac{d}{4}$ inches =		
Addition for Winter North Atlantic Freeboard (if required) =		Summer Freeboard = <i>29.35</i>

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	"



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.

Forl Sheer 21.6"  
1)  
4-6 54

19-3  
1)  
2-3  
27

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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