

CONVERSION TO BULK CARRIER
WITH BRIDGE

2

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING
SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, ~~TANKER~~)Received
Index No.
Govt. Copy
Owners C11

Ship's Name CLYDEFIELD	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 516' Breadth 70' Depth 37.765'					Date of Survey
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)					Particulars of Classification
Coefficient of fineness for use with Tables 749					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ...	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B)
Stringer plate ...		Standard Round of Beam = $\frac{B \times 12}{50} =$
Wood Sheathing on exposed deck	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Ship's Round of Beam =
$T \left(\frac{L-S}{L} \right) =$		Difference
Depth for Freeboard (D) = 37.84	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = -0.03$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					128.83
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					42.33
" overhang aft					
" overhang forward					
F'cle enclosed					66.00
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					237.16

Standard Height of Superstructure **7.50**
" " R.Q.D.
Deduction for complete superstructure **42.00**
Percentage covered $\frac{S}{L} =$
" " $\frac{S_1}{L} =$ } **45.96**
" " $\frac{E}{L} =$
Percentage from Table, Line A. **28.55**
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. **32.55**
(corrected for absence of forecastle (if required))
Interpolation for bridge less than .2L (if required) $28.55 + 4 \left(\frac{42.33}{103.2} \right) = 30.19$
Deduction = $42 \times 30.19 = 12.68$

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	0	4	0	0	0	0	4	0	0
$\frac{3}{4}L$ from F.P.		2					2		
$\frac{1}{4}L$ "		4					4		
F.P.		1					1		
Total				554.39					465.37

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{89.02}{18} (.75 - .229) = +2.57$
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. Depth to Freeboard Deck = 37.84 Summer freeboard = 9.38 Moulded draught (d) = 28.46 Keel allowance = Extreme draught = 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 $\Delta =$ 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 1.429/1.36 <table border="1"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Depth Correction</td> <td>10.32</td> <td></td> </tr> <tr> <td>Deduction for superstructures</td> <td></td> <td>12.68</td> </tr> <tr> <td>Sheer correction</td> <td>2.57</td> <td></td> </tr> <tr> <td>Round of Beam correction</td> <td></td> <td>.03</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td></td> <td></td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td></td> <td></td> </tr> <tr> <td></td> <td>12.89</td> <td>12.71</td> </tr> </tbody> </table> Summer Freeboard = 112.55		+	-	Depth Correction	10.32		Deduction for superstructures		12.68	Sheer correction	2.57		Round of Beam correction		.03	Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.				12.89	12.71
	+	-																								
Depth Correction	10.32																									
Deduction for superstructures		12.68																								
Sheer correction	2.57																									
Round of Beam correction		.03																								
Correction for Thickness of Deck amidships																										
Other corrections, scantlings, etc.																										
	12.89	12.71																								

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line ~~Steel~~, 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	"