

Capitol 36532.

Lloyd's Register of Shipping

Index. No. 36938
(For London Office only).

SURVEYS FOR FREEBOARD.

No 33469

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "FIREDOG"	Official Number 168316	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 1536.69	Date of Build 1942	Port of Survey SUNDERLAND
Moulded Dimensions: Length 243.12 ✓ Breadth 39.33 ✓ Depth 18.50 ✓					Date of Survey WHILST BUILDING
Moulded displacement at moulded draught = 85 per cent. of moulded depth (15.73) = 3214 ✓ tons					Surveyor's Signature P. Heroudeau
Coefficient of fineness for use with Tables 750					Particulars of Classification +100A1 WITH FREE³⁰
Depth for Freeboard (D). Moulded depth ... 18.50 Stringer plate ... 0.55 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓ Depth for Freeboard (D) = 18.55			Depth correction. (a) Where D is greater than Table depth $(18.55 - 16.21) \times 1.87 = +4.38"$ (b) Where D is less than Table depth (if allowed) (Table depth - D) R = ✓ If restricted by superstructures ✓		

Round of Beam correction.	
Moulded Breadth (B)	39.33
Standard Round of Beam = $\frac{B \times 12}{50} =$	9.375
Ship's Round of Beam =	9.5
Difference	0.125
Restricted to	✓
Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$	0.125 ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	-	-	-	-	-	Standard Height of Superstructure 6.00'
.. overhang ...	-	-	-	-	-	.. " R.Q.D. 3.954
R.Q.D. enclosed ...	148.96	148.96	4.00 ✓	✓	148.96	Deduction for complete superstructure 30.31
.. overhang ...	-	-	-	-	-	Percentage covered $\frac{S}{L} =$ 77.81 ✓
Bridge enclosed ...	18.00	18.00	7.00 ✓	✓	18.00	.. " $\frac{S_1}{L} =$ 77.73 ✓
.. overhang aft ...	-	-	-	-	-	.. " $\frac{E}{L} =$ 77.73 ✓
.. overhang forward	21.87	21.87	6.00 ✓	✓	21.87	Percentage from Table, Line A. 72.51 ✓
Fore enclosed Equiv ...	22.66	21.87	6.00 ✓	✓	21.87	(corrected for absence of forecastle (if required)) ✓
.. overhang ...	33	16 (SEE SKETCH)	-	-	16	Percentage from Table, Line B.
Trunk aft ...	-	-	-	-	-	(corrected for absence of forecastle (if required)) ✓
.. forward ...	-	-	-	-	-	Interpolation for bridge less than 2L (if required) ✓
Tonnage opening aft ...	-	-	-	-	-	Deduction = 30.31 x 72.51 = -21.98
.. forward	-	-	-	-	-	
Total ...	189.16	188.99	-	-	188.99	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	34.31	1		34.31	12.55	12.55	1		12.55	Mean actual sheer aft = Mean standard sheer aft = } Deficient
$\frac{1}{8}$ L from A.P. ...	15.165	4		61.06	5.60	5.60	4		22.40	
$\frac{2}{8}$ L ..	3.775	2		7.55	1.38	1.38	2		2.76	Mean actual sheer forward = Mean standard sheer forward = } Deficient
Amidships ...	-	4		-	-	-	4		-	
$\frac{3}{8}$ L from F.P. ...	7.55	2		15.10	4.375	4.375	2		8.75	Length of enclosed superstructure forward of amidships = } Deficient .. aft of .. = } sheers.
$\frac{4}{8}$ L ..	30.53	4		122.12	17.375	17.375	4		69.50	
F.P. ...	68.62	1		68.62	39.00	39.00	1		39.00	
Total ...	-			308.76	-	-			154.96	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{154.80 - 389.1}{18} = +3.08"$
 If limited on account of midship superstructure. ✓

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 22.55 Summer freeboard = 5.92 Moulded draught (d) = 16.63 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 4.16 - 4 1/4" Addition for Winter North Atlantic Freeboard (if required) = 6 1/4"	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 3445 Tons per inch immersion at summer load water line $T =$ 19.35 Deduction = $\frac{\Delta}{40T}$ inches = 4.45 = 4 1/2"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{75+68}{1.36} = 1.43/1.36$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>4.38</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>21.98</td> </tr> <tr> <td>Sheer correction</td> <td>3.08</td> <td>-</td> </tr> <tr> <td>Round of Beam correction</td> <td>-</td> <td>0.01</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>48.00</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>5.02</td> <td>-</td> </tr> <tr> <td>to a summer moulded draught of 16'-7 1/2"</td> <td>60.48</td> <td>21.99</td> </tr> <tr> <td>Summer Freeboard =</td> <td>71.00</td> <td></td> </tr> </table>		+	-	Depth Correction	4.38	-	Deduction for superstructures	-	21.98	Sheer correction	3.08	-	Round of Beam correction	-	0.01	Correction for Thickness of Deck amidships	48.00	-	Other corrections, scantlings, etc.	5.02	-	to a summer moulded draught of 16'-7 1/2"	60.48	21.99	Summer Freeboard =	71.00	
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Steel Deck:

Tropical Fresh Water Line above Centre of Disc	8 3/4"
Fresh Water Line	4 1/2"
Tropical Line	4 1/4"
Winter Line below	4 1/4"
Winter North Atlantic Line	6 1/4"

Tropical Fresh Water Freeboard	5'-11"
Fresh Water	5'-2 1/4"
Tropical	5'-6 1/2"
Winter	5'-6 3/4"
Winter North Atlantic	6'-5 1/4"

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RECEIVED

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.

Am 17

Trade of ship COLLIER.

Names of sister ships S.S. "CAPITOL" MESSRS AUSTINS N^o 355.

Builder's name and yard number MESSRS S.P. AUSTINS N^o 364.

Owners GAS LIGHT & COKE CO L^d

Fee £ 11 - 0 - 0.

Will be charged on completion



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Foundation