Rpt. C.11 (Comp.).

E.T. COPY

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 35782
(For London Office only).

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
DOXFORD'S No 640				
LADY GLANELY.			37.58.	

Moulded Dimensions: Length 422.21 Breadth 57.46 Depth 29.08

Moulded displacement at moulded draught = 85 per cent. of moulded depth 12887 tons

Coefficient of fineness for use with Tables .752

Port of Survey _____

Date of Survey 31.8.39

Surveyor's Signature _____

Particulars of Classification _____

Depth for Freeboard (D).

Moulded depth 29.08
Stringer plate ... ... .04
Sheathing on exposed deck
$T\left(\dfrac{L-S}{L}\right)$ = NIL.

Depth for Freeboard (D) = 29.12

Depth correction.
(a) Where D is greater than Table depth
(D—Table depth) R =
$(29.12-28.14)3 = +2.94$

(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) 57.46.
Standard Round of Beam = $\dfrac{B \times 12}{50}$ = 13.79
Ship's Round of Beam = 14.50
Difference .71
Restricted to
Correction = $\dfrac{Diff^e}{4} \times \left(1-\dfrac{S_1}{L}\right)$ = NIL.

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	35.46	35.46	8.50		35.46
„ overhang	1.50	.75			.75
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed... ...	378.88	378.88	8.50		378.88
„ overhang aft ...	1.50	1.12			1.12
„ overhang forward ...					
F'cle enclosed					
„ overhang ...					
Trunk aft					
„ forward					
Tonnage opening aft ...	4.87	3.00			3.00
„ „ forward					
Total	422.21	419.21			419.21

Standard Height of Superstructure 7.5
„ „ R.Q.D. _____
Deduction for complete superstructure 42.00
Percentage covered $\dfrac{S}{L}$ = 100
„ „ „ $\dfrac{S_1}{L}$ = 99.30
„ „ „ $\dfrac{E}{L}$ = 99.30
Percentage from Table, Line A. 99.14
(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 = $42 \times .9914 = 41.64$.

SHEER CORRECTION.

ACTUAL SUPERE. HT. 8'6"
STANDARD „ 7'6"
1'-0

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	52.22	1		+12" 5820	70.20	1	
¼L from A.P. ...		4				4	
½L „ ...		2				2	
Amidships ...		4				4	
⅔L from F.P. ...		2				2	
¼L „ ...		4				4	
F.P. ...	104.44	1		+12" 114.00	126.00	1	
Total ...			463.98				588.56

Mean actual sheer aft / Mean standard sheer aft =
Mean actual sheer forward / Mean standard sheer forward =
Length of enclosed superstructure / L forward of amidships =
„ „ „ aft of „ =

Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(.75 - \dfrac{S}{2L}\right)$ = −1.65
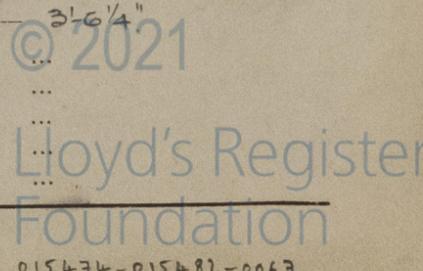If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.

Ft.
Depth to Freeboard Deck = 29.12
Summer freeboard = 3.52
Moulded draught (d) = 25.60
Deduction for Tropical freeboard and addition for
Winter freeboard = $\dfrac{d}{4}$ inches = 6.4 = 6½"
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 = $\dfrac{\Delta}{40\,T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required) 78.43
Correction for coefficient $\dfrac{.752 + .68}{1.36}$ 82.64.

	+	−
Depth Correction	2.94	−
Deduction for superstructures ...	−	41.64
Sheer correction	−	1.65
Round of Beam correction... ...	−	−
Correction for Thickness of Deck amidships	−	−
Other corrections, scantlings, etc. ...	−	−
	2.94	43.29 40.35
	Summer Freeboard =	42.29

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: 3'-6¼"

		Tropical Fresh Water Freeboard ... ...
Tropical Fresh Water Line above Centre of Disc		
Fresh Water Line „ „	Fresh Water ...	
Tropical Line „ „	Tropical ...	
Winter Line below „ „	Winter ...	
Winter North Atlantic Line „ „	Winter North Atlantic ...	

10m 3.37. T.

SUMMER MOULDED DRAFT 25.60'

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