For determination of draught only ECOTShip

Rpt. C.1. Comp.

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

Index. No. 36218
(For London Office only).

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
Messrs. Harland & Wolff (Yard) N°1034-5				

Port of Survey

Date of Survey 21-2-40

Surveyor's Signature

Particulars of Classification + 100A with freeboard

Moulded Dimensions: Length **425** Breadth **57** Depth { 38.58 / 29.83 }

Moulded displacement at moulded draught = 85 per cent. of moulded depth Virtual 13096 at .85 D = 30.58 tons

Coefficient of fineness for use with Tables .728

Depth for Freeboard (D).

Moulded depth ... Virtual ...	30.58
for plate	.04
...ng on exposed deck $\frac{(L-S)}{L}$ =	
Depth for Freeboard (D) =	30.62

Depth correction.

(a) Where D is greater than Table depth
(D−Table depth) R =
$\frac{(30.62 - 28.33) \times 3}{2.29} = + 6.87$

(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)

Standard Round of Beam = $\frac{B \times 12}{50}$ =

Ship's Round of Beam =   assumed Normal

Difference

Restricted to

Correction = $\frac{Diff^n}{4} \times \left(1 - \frac{S_1}{L}\right)$ = Nil

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
...enclosed				
...overhang...				
...r enclosed ...				
...overhang			C.S.	S
...enclosed...				
...overhang aft				
...overhang forward				
...enclosed				
...overhang				
...aft				
...forward ...				
...e opening aft ...				
,, forward				
...e Total ...				

Standard Height of Superstructure 7.5

,, ,, R.Q.D. 42"

Deduction for complete superstructure 42"

Percentage covered $\frac{S}{L}$ =

$\frac{S_1}{L}$ = } 100

,, ,, $\frac{E}{L}$ =

Percentage from Table, Line A. 100
(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"

SHEER CORRECTION.

L.L.R. Tween deck height = 8.0
Standard = 7.5
Difference .5

	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
		1				1	
...P...		4				4	
		2	assumed standard			2	
		4				4	
...P...		2				2	
						4	
		1				1	

Mean actual sheer aft = / Mean standard sheer aft =

Mean actual sheer forward = / Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = / L

,, ,, ,, aft of ,, =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\cdot 75 - \frac{S}{2L}\right)$ = − .50   If limited to maximum allowance of 1½ ins. per 100 ft.

...ed on account of midship superstructure.

...n for Tropical Freeboard.
...for Winter and Winter North ... Freeboard.

	Ft.
...epth to Freeboard Deck Virtual =	30.62
...Summer freeboard =	3.88
Moulded draught (d) =	26.74

...r Tropical freeboard and addition for ...reeboard = $\frac{d}{4}$ inches =

...Winter North Atlantic Freeboard (if

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) 79.35

Correction for coefficient $\frac{.728 + .68}{1.36} = \frac{1.408}{1.36}$ = 82.14

	+	−	
Depth Correction	6.87		
Deduction for superstructures ...		42.00	
Sheer correction		.50	
Round of Beam correction... ...			
Correction for Thickness of Deck amidships			
Other corrections, scantlings, etc. ...			
	6.87	42.50	− 35.63

Summer Freeboard = 46.51

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck : 3.88 feet

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	

10m 3.37. T.

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