

For VOYAGE ONLY.

Rpt. C.11 (Comp.).

Index No.

(For London Office only.)

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name GLESSULA	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 117.03 m Breadth 19.05 m Depth 8.001 m					Date of Survey 18/12/52
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables .820					Particulars of Classification +100 A1 <i>Carrying Petroleum in Bulk.</i>

DEPTH FOR FREEBOARD (D).

Moulded depth **8.001**

Stringer plate **16**

Sheathing on exposed deck

$T \left(\frac{L-S}{L} \right) =$

Depth for Freeboard (D) = **8.017**

DEPTH CORRECTION.

(a) Where D is greater than Table depth (D-Table depth) R = **+53 mm**

(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 =

Difference

Restricted to

Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) =$ **-5 mm**

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
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	28.372	28.321			28.321

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure **1040**

Percentage covered $\frac{S}{L} =$ **24.24**

" " $\frac{S_1}{L} =$ **24.20**

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

Percentage from Table, Line A. Tanker. **16.94**
(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 = **1040 x .1694 = -176 mm**

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		4				4	
$\frac{3}{4}$ L from F.P.		2				2	
$\frac{1}{4}$ L " "		4				4	
F.P.		1				1	
Total			11058				2523

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **+298 mm**

If limited on account of midship superstructure.

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 " =

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **8.017**

Summer freeboard = **2530**

Moulded draught (d) = **5.487**

Keel allowance =

Extreme draught =

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48}$ inches = **114 mm = 11 cm**

Addition for Winter North Atlantic Freeboard (if required) = **114 + 96 = 210 mm**

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

$\frac{\Delta}{4} = 11 \text{ cm}$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction **53**

Deduction for superstructures **-176**

Sheer correction **298**

Round of Beam correction **-5**

Correction for Thickness of Deck amidships **-**

Other corrections, scantlings, etc. to **710**

correspond to a summer moulded draught of 18'0"

+	-
53	176
298	-5
-	-
710	-
1061	181
+ 880	
Summer Freeboard = 2530	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck :-

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Tropical Fresh Water Line above Centre of Disc **8 1/2 ... 22 cm**

Fresh Water Line " " **4 1/4 ... 11**

Tropical Line " " **4 1/4 ... 11**

Winter Line below " " **4 1/4 ... 11**

Winter North Atlantic Line " " **8 1/4 ... 21**

Tropical Fresh Water Freeboard **7 1/2 ... 253 cm**

Fresh Water " **7 1/2 ... 242 cm**

Tropical " **7 1/2 ... 242 cm**

Winter " **8 1/4 ... 264 cm**

Winter North Atlantic " **8 1/4 ... 274 cm**

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