TIMBER

Rpt. C.11 (Comp.).

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

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
TEDDY		DANISH COPENHAGEN		

Port of Survey ... GREENOCK

Date of Survey ... NOVEMBER 1946 (WHILST BUILDING)

Surveyor's Signature ... W. MACMILLAN

Particulars of Classification ... + 100 A1 (CONTEMPLATED)

Moulded Dimensions : Length 58·07 m Breadth 9·906 m Depth 3·968 m
TO CENTRE RUDDER STOCK

Moulded displacement at moulded draught = 85 per cent. of moulded depth 1290 m³ tons

Coefficient of fineness for use with Tables ·68

DEPTH FOR FREEBOARD (D).

Moulded depth ... ... 3·968

Stringer plate 10

Sheathing on exposed deck
$T\left(\dfrac{L-S}{L}\right)=$

Depth for Freeboard (D) = 3·978

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D—Table depth) R =
   + 13 mms

(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 = $\dfrac{B \times 12}{50}$ =

Ship's Round of Beam =

Difference

Restricted to

Correction = $\dfrac{\text{Diff}^e}{4} \times \left(1-\dfrac{S_1}{L}\right)$ = −2 mms

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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	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					

Standard Height of Superstructure

„ „ R.Q.D.

Deduction for complete superstructure 636 mms

Percentage covered $\dfrac{S}{L}$ = 75·84

„ „ $\dfrac{S_1}{L}$ = } 75·06

„ „ $\dfrac{E}{L}$ = }

Percentage from Table, Line A TIMBER 84·54
(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 = 636 × ·8454 = − 538 mms

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
⅛L from A.P. ...		4				4	
⅔L „		2				2	
Amidships		4				4	
⅔L from F.P. ...		2				2	
⅛L „		4				4	
F.P.		1				1	
Total ...							

$\dfrac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}}$ =

$\dfrac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}}$ =

$\dfrac{\text{Length of enclosed superstructure}}{L}$ forward of amidships =

„ „ aft of „ =

Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(·75-\dfrac{S}{2L}\right)$ = + 11 mms

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.

RAISED QUARTER   Ft. m
Depth to Freeboard Deck = 5·096

Summer freeboard = 1·168

Moulded draught (d) = 3·928

Deduction for Tropical freeboard and addition for
Winter freeboard = $\dfrac{d}{48}$ inches = 82 mms

Addition for Winter North Atlantic Freeboard (if required) = $\dfrac{d}{36}$ = 109 mms ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line
Δ = 1584

Tons per inch immersion at summer load water line
T = 12·93

Deduction = $\dfrac{\Delta}{40\,T}$ inches = 3·06 = 78 mms

TABULAR FREEBOARD corrected for Flush Deck (if required)

	+	−
Correction for coefficient ✓		
Depth Correction	13	−
Deduction for superstructures	−	538
Sheer correction	11	−
Round of Beam correction	−	2
Correction for Thickness of Deck amidships ...	1118	−
Other corrections, scantlings, etc.	−	
	−	−
	1142	540

546
546

82 B.
16.12.46

HEIGHT OF RAISED QUARTER

+ 602

Summer Freeboard = 1148 mms

TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :— RAISED QUARTER   1168 mms (LIMITED)

18.12.1946 TIMBER Tropical Fresh Water Line above Centre of Disc ... ... 156 mms Tropical Fresh Water Freeboard ... 1090 "
„ Fresh Water Line „ „ ... 156 " Fresh Water „ ... 1090 "
„ Tropical Line „ „ (LIMITED) 78 " Tropical „ ... 1168 " (LIMITED)
„ Winter Line below „ „ ... 31 " Winter „ ... 1277 "
„ Winter North Atlantic Line „ „ ... 131 " Winter North Atlantic „ ... 1377 "

5m T 11/41. McC.   „ SUMMER   ABOVE „ ... 78 "

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