Rpt. C.11 (Comp.)

Fw merchant draught

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
Rembrandt				

Moulded Dimensions: Length .... Breadth .... Depth 31.50
Freeboard Length ....
Moulded displacement at moulded draught = 85 per cent. of moulded depth .... tons
(excluding bossing)
Coefficient of fineness for use with Tables .764 estimate

Port of Survey ....
Date of Survey 1.10.56
Surveyor's Signature ....
Particulars of Classification ....

DEPTH FOR FREEBOARD (D).

Moulded depth 31.50
Stringer plate ... ... .05
Wood Sheathing on exposed deck
$T\left(\dfrac{L-S}{L}\right) =$

Depth for Freeboard (D) = 31.55

DEPTH CORRECTION.

(a) Where D is greater than Table depth
$(D - \text{Table depth})\ R =$
$\dfrac{(31.65 - 28.37)3}{3.28}$ 9.84

(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 say = Stand
Difference
Restricted to
Correction = $\dfrac{\text{Diff}^e}{4} \times \left(1 - \dfrac{S_1}{L}\right)$ = Nil

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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					

(diagonal handwritten note across columns: "Taken off")

Standard Height of Superstructure ....
„ „ R.Q.D. ....
Deduction for complete superstructure ....
Percentage covered $\dfrac{S}{L} =$
„ „ $\dfrac{S_1}{L} =$
„ „ $\dfrac{E}{L} =$
Percentage from Table, Line A.
(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.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
⅛L from A.P. ...		4				4	
²⁄₈L „		2				2	
Amidships ...	O	4	O	O	O	4	O
²⁄₈L from F.P. ...		2				2	
⅛L „		4				4	
F.P.		1				1	
Total ...							

(handwritten "Standard" across Actual/Effective Ordinate columns)

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

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

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

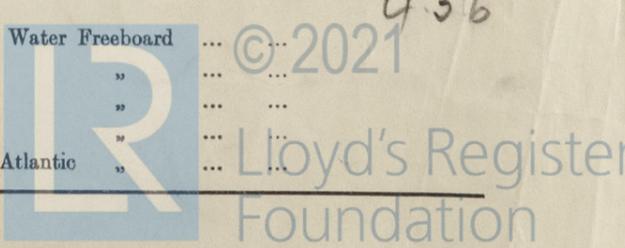Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(·75 - \dfrac{S}{2L}\right) =$
If limited on account of midship superstructure.

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

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

Depth to Freeboard Deck = 31.65 Ft
Summer freeboard = 4.36
Moulded draught (d) = 27.29
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =
Winter freeboard = $\dfrac{d}{4}$ inches =
Addition for Winter North Atlantic Freeboard (if required) =

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 = $\dfrac{\Delta}{40\,T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required) 79.52

Correction for coefficient .764 1.444/136   74.44
.68

	+	−
Depth Correction	9.84	
Deduction for superstructures		42
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc.		
	84	42 −32 = 6

Summer Freeboard = 52.8
4.36

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

					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	„	...

5m,6,55. T.

004450 - 004458 - 0195

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.

$$
\begin{array}{r}
4/15 \quad 28\cdot37 \\
3\cdot54 \\
\hline
24\cdot83 \\
25\cdot29 \\
\hline
\end{array}
$$

42·44

$$
\begin{array}{r}
3\cdot06 \times \dfrac{4}{3} \\
\cdot82 \\
\hline
3\cdot28 \\
28\cdot37 \\
\hline
31\cdot65
\end{array}
$$

31·6
7·5
39·1 needed   37·31 actual

∴ full length

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)