S.V. with C.S.S.

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
Bengkalis				

Port of Survey

Date of Survey

Surveyor's Signature

Particulars of Classification

Moulded Dimensions : Length 420   Breadth 54.5   Depth 28

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

Coefficient of fineness for use with Tables .752

DEPTH FOR FREEBOARD (D).

Moulded depth 28.0

Stringer plate ... ... .04

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

Depth for Freeboard (D) = 28.04

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D—Table depth) $R =$

$\dfrac{(28.04 - 28.13)}{.04} + .12''$

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

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 7.5

„ „ R.Q.D. ....

Deduction for complete superstructure 42

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

„ „ $\dfrac{S_1}{L} =$ } 100

„ „ $\dfrac{E}{L} =$

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.

LR Standard Superstructure 8.00
LL „ „ „ 7.50
.50

Station	Standard Ordinate	SM	Product	Actual Ordinate	Effective Ordinate	SM	Product
A.P.		1				1	
⅙L from A.P. ...		4				4	
⅖L „		2				2	
Amidships ...		4				4	
⅖L from F.P. ...		2				2	
⅙L „		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 = $\dfrac{\text{Difference between sums of products}}{18}\left(.75 - \dfrac{S}{2L}\right) =$

If limited on account of midship superstructure.

−.50″

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

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

	Ft.
Depth to Freeboard Deck =	28.04
Summer freeboard	3.29
Moulded draught (d) =	24.75

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)   77.80

Correction for coefficient $\dfrac{.752 + .68}{1.36}$ $\dfrac{1.432}{1.36}$ 81.92

	+	−
Depth Correction	.12	
Deduction for superstructures ...		42.0
Sheer correction		5
Round of Beam correction		
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc.		
	0.12	42.50

−42.38

Summer Freeboard = 39.54

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

3.29

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 „ „		

002374-002384-0083
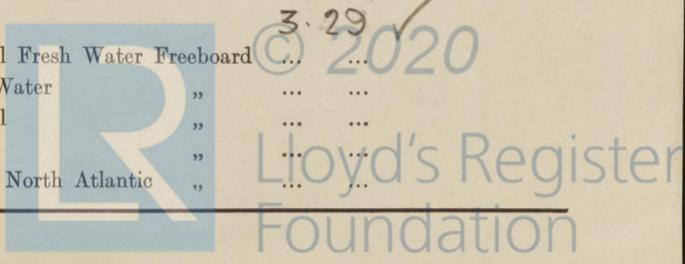
A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

417 – 9

28 × 7   189   15'–9"

163
7 – 170 × 28   380 – 4

9 × 26   234   19 – 6
                                 ─────
                              4 15 – 7

                                 2 – 2

165   10½
28   10½
───   ─────
326   4 9 5
1304   ─────
r 4564
───
380 – 4

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £   :   :