Rpt. C.11 (Comp.).

S. V. with 50% erections.

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				

Moulded Dimensions : Length **420** Breadth **54·5** Depth **36**

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

Coefficient of fineness for use with Tables ___ **·78 (ert)**

Port of Survey _____

Date of Survey _____

Surveyor's Signature _____

Particulars of Classification _____

DEPTH FOR FREEBOARD (D).

Moulded depth ... ...

Stringer plate ... ...

Sheathing on exposed deck

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

Depth for Freeboard (D) = **36·08**

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D—Table depth) R = **+24·24**

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

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 $\dfrac{S}{L}$ =

„ „ $\dfrac{S_1}{L}$ = } **50%**

„ „ $\dfrac{E}{L}$ =

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. **36**
(corrected for absence of forecastle (if required))

Interpolation for bridge less than ·2L (if required)

Deduction = **42 × ·36 = — 15·12**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
⅙L from A.P. ...		4				4	
⅔L „ ...		2				2	
Amidships ...		4				4	
⅔L from F.P. ...		2				2	
⅙L „ ...		4				4	
F.P.		1				1	
Total ...							

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

If limited on account of midship superstructure.

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

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

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

„ „ aft of „ =

NIL

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

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

	Ft.
Depth to Freeboard Deck =	**36·08**
Summer freeboard =	**7·72**
Moulded draught (d) =	**28·36**

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

$\triangle$ =

Tons per inch immersion at summer load water line

T =

Deduction = $\dfrac{\triangle}{40\,T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required) **77·80**

Correction for coefficient **83·52**

	+	−
Depth Correction	24·24	
Deduction for superstructures		15·12
Sheer correction	—	
Round of Beam correction		
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc.		
	24·24	15·12

= **+ 9·12**

Summer Freeboard = **92·64**

7·72

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

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 „ „	

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