

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

now named "Ven Koh" of Singapore.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

poop, bridge & fore-castle.

Port of Survey

VEN-KOH

(Type of Superstructures.)

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

CITY OF VANCOUVER.

Date of Survey 14-12-32

Name of Surveyor

Particulars of Classification +100 A1

Moulded Dimensions: Length 410.25 Breadth 54.0 Depth 29.75
Moulded displacement at moulded draught = 85 per cent. of moulded depth 13010 tons
Coefficient of fineness for use with Tables 1.813

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B)
Stringer plate		Standard Round of Beam = $\frac{B \times 12}{50}$ =
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Ship's Round of Beam =
Depth for Freeboard (D) = 29.79	If restricted by superstructures	Difference
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = -0.06$

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					

Standard Height of Superstructure

„ „ R.Q.D.

Deduction for complete superstructure 42.00

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

„ „ $\frac{S_1}{L} =$

„ „ $\frac{E}{L} = 50.10$

Percentage from Table, Line A.

(corrected for absence of fore-castle (if required))

Percentage from Table, Line B. Timber 69.31

(corrected for absence of fore-castle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = -29.11

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{6}$ L from A.P.		4				4	
$\frac{2}{6}$ L „		2				2	
Amidships		4				4	
$\frac{2}{6}$ L from F.P.		2				2	
$\frac{1}{6}$ L „		4				4	
F.P.		1				1	
Total							

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

„ „ aft of „ =

- 4.11

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 29.79
Summer freeboard = 4.67
Moulded draught (d) = 25.12

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.28 6 1/4

Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 8.37$ 8 1/4

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

6 1/4

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	7.32	-
Deduction for superstructures	-	29.11
Sheer correction	-	4.11
Round of Beam correction	-	.06
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	7.32	33.28

Summer Freeboard = 56.02

TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: 14.22 = 4'-8"

TIMBER Tropical Fresh Water Line above Centre of Disc 14.22 = 4'-8"

" Fresh Water Line " 5.08 = 2'-0"

" Tropical Line " 5.08 = 2'-0"

" Winter Line below above 14.22 = 5'-2"

" Winter North Atlantic Line below " 15.8 = 6'-4"

TIMBER Tropical Fresh Water Freeboard ... 14.05 = 3'-7 1/2"

" Fresh Water " 12.64 = 4'-1 3/4"

" Tropical " 12.64 = 4'-1 3/4"

" Winter " 12.64 = 4'-1 3/4"

" Winter North Atlantic " 12.30 = 6'-4"

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