

SCANTLINGS

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners C11

Ship's Name CHEOY LEE Yard No. 669	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 137' Breadth 29.5' Depth 12.0'					Date of Survey 9-4-56
Freeboard Length 137'					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 867 tons					Particulars of Classification Australian Coasting Service.
Coefficient of fineness for use with Tables .736					

DEPTH FOR FREEBOARD (D). Moulded depth ... 12.00 Stringer plate say .3403 Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 12.03	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = (12.03-9.13) 1.054 = 3.06 (b) Where D is less than Table depth (if allowed) (Table depth-D) R = 2.98 If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 29.5' Standard Round of Beam = $\frac{B \times 12}{50} =$ 7.08" Ship's Round of Beam = 10 Difference 2.92 Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) =$ $\frac{2.92}{4} \times .3242 = .24$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	46.25	46.25			46.25
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	21.33	21.33			21.33
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...					67.58

Standard Height of Superstructure	6.00
" " R.Q.D.	
Deduction for complete superstructure	19.70
Percentage covered $\frac{S}{L} =$	
" " $\frac{S_1}{L} =$	67.58
" " $\frac{E}{L} =$	
Percentage from Table, Line A.	58.92
(corrected for absence of fore-castle (if required))	
Percentage from Table, Line B.	
(corrected for absence of fore-castle (if required))	
Interpolation for bridge less than .2L (if required)	
Deduction = $19.70 \times .5892 =$	11.60

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1					1		
$\frac{1}{4}$ L from A.P. ...		4					4		
$\frac{2}{4}$ L " ...		2					2		
Amidships ...	0	4	0	0	0	0	4	0	0
$\frac{3}{4}$ L from F.P. ...		2					2		
$\frac{4}{4}$ L " ...		4					4		
F.P. ...		1					1		
Total ...									

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

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

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

" " aft of " =

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

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

Depth to Freeboard Deck = **Ft.**
Summer freeboard =
Moulded draught (d) =
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ 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 = $\frac{\Delta}{40 T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.736 \times 1.68}{1.36} =$ **1.416**

Depth Correction	3.06	-
Deduction for superstructures	-	11.60
Sheer correction	-	-
Round of Beam correction	-	.24
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
				3.06	11.84

Summer Freeboard = **5.63**

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

Tropical Fresh Water Line above Centre of Disc
Fresh Water Line	"	"
Tropical Line	"	"
Winter Line	below	"
Winter North Atlantic Line	"	"

Tropical Fresh Water Freeboard
Fresh Water	"	"
Tropical	"	"
Winter	"	"
Winter North Atlantic	"	"