

SCANTLING

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LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received
 Index No.
 Govt. Copy
 Owners C11

Ship's Name CHEOY LEE Yard N ^o : 669	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
Moulded Dimensions: Length Breadth 29.5 Depth 12.0				
Freeboard Length 137'				
Moulded displacement at moulded draught = 85 per cent. of moulded depth 867 tons (excluding bossing)				
Coefficient of fineness for use with Tables .736				

Port of Survey

Date of Survey **9-4-56**

Surveyor's Signature

Particulars of Classification
Australian Coasting Service.

DEPTH FOR FREEBOARD (D).

Moulded depth **12.00**

Stringer plate *say .34* **.03**

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 =

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 = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{2.92^2}{4} \times .3242 = .24$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	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 $\frac{S}{L} =$

" " $\frac{S_i}{L} = 67.58$

" " $\frac{E}{L} =$

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	Product	Actual Ordinate	Effective Ordinate	S	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	4	0
$\frac{3}{4}L$ from F.P.		2				2	
$\frac{1}{4}L$ " "		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 =

" " aft of " =

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

If limited on account of midship superstructure.

If limited to maximum allowance of 1 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 $\frac{.736 \times 1.68}{1.36} = 1.416 / 1.36$

	+	-
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

13.84 ✓
14.41 ✓

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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