

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index No. 37600  
(For London Office only).

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

RIVER CLARENCE  
87391

"BAI FENG"

Ship's Name <b>RIVER GLEMELG</b>	Official Number 156017	Nationality and Port of Registry British Adelaide Hong Kong	Gross Tonnage 4914	Date of Build 1944	Port of Survey Whyalla South Aust.
Moulded Dimensions: Length 426.5 Breadth 56.5 Depth 27.5 to 2nd deck to centre of rudder stock 36.5 to shelter deck				Date of Survey While Building	
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16230 tons 11720 to 2nd deck				Surveyor's Signature T. Pratt	
Coefficient of fineness for use with Tables 760				Particulars of Classification 100 A 1 with freeboard	

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth 36.50	(a) Where D is greater than Table depth (D—Table depth) R = (36.56 - 28.43) 3' = 24.39'	Moulded Breadth (B) 56.50
Stringer plate (.66) .055	(b) Where D is less than Table depth (if allowed) (Table depth—D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 13.56$
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 9.00
Depth for Freeboard (D) = 36.555		Difference deficient 4.56
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{4.56}{4} \times \frac{9.13}{4} = 1.04$

## DEDUCTION FOR SUPERSTRUCTURES

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
Fore enclosed 69' 0"	35.62	35.62	7.5		35.62
" overhang	1.21	1.21			1.21
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	36.83	36.83			36.83

Standard Height of Superstructure 7.5	
" " R.Q.D.	
Deduction for complete superstructure 4.2	
Percentage covered $\frac{S}{L} = 8.63$	
" " $\frac{S_1}{L} = 8.63$	
" " $\frac{E}{L} = 8.63$	
Percentage from Table, Line A. 4.32	
(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 = 4.2 x 0.0432 = 1.81	

## SHEER CORRECTION

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	52.65	1		52.65	52.81	52.81	1		52.81
$\frac{1}{2}L$ from A.P.	23.43	4		93.72	23.50	23.50	4		94.00
$\frac{2}{3}L$ "	5.79	2		11.58	6.12	6.12	2		12.24
Amidships	-	4		-	-	-	4		-
$\frac{2}{3}L$ from F.P.	11.58	2		23.16	11.50	11.50	2		23.00
$\frac{1}{2}L$ "	46.86	4		187.44	46.94	46.94	4		187.76
F.P.	105.30	1		105.30	105.87	105.87	1		105.87
Total				473.85					475.68

Mean actual sheer aft	Excess
Mean standard sheer aft	
Mean actual sheer forward	Excess
Mean standard sheer forward	
Length of enclosed superstructure forward of amidships	Nil only
" " aft of "	Nil

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{75-S}{2L} \right) = \frac{1.83}{18} \times \frac{707}{2} = -0.072$

If limited on account of midship superstructure. Yes - nil

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

Deduction for Tropical Freeboard	Deduction for Fresh Water	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard	Displacement in salt water at Summer load water line	Correction for coefficient
Depth to Freeboard Deck = 36.56	$\Delta = 13036$	
Summer freeboard = 11.78	Tons per inch immersion at Summer load water line	Depth Correction
Moulded draught (d) = 25.48	$T = 48.587$	Deduction for superstructures
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.37	Deduction = $\frac{\Delta}{40T}$ inches = 6.72	Sheer correction
Addition for Winter North Atlantic Freeboard (if required) =		Round of Beam correction
		Correction for Thickness of Deck amidships
		Other corrections, scantlings, etc.
		SUMMER MOULDED DRAUGHT OF 25.54
		Summer Freeboard 11.3

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

Tropical Fresh Water Line above Centre of Disc	13"	Tropical Fresh Water Freeboard	10'-0"
Fresh Water Line	6 3/4"	Fresh Water	10'-6 3/4"
Tropical Line	6 1/2"	Tropical	10'-X 6 3/4"
Winter Line below	6 1/2"	Winter	11'-7 1/2"
Winter North Atlantic Line	-	Winter North Atlantic	-



River Clarence

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.

Forecasts.

36.83.

Recesses.  $\frac{2 \times 4.08 \times 6}{40.5} = \frac{1.21}{35.62} = \text{equiv. overhang,}$   
 $\text{equiv. enclosed}$

Trade of ship

International

Names of sister ships

"River Clarence" & "River Burdekin"

Builder's name and yard number

Broken Hill Pty. Co Ltd. 1103

Owners

Commonwealth of Australia (Dept. of Supply & Shipping)

Fee £

16 : 0 : 0



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Foundation