

20 MAY 1946

Rpt. C.11 (Comp.).

Glasgow Rpt. 70704

Index. No. 38530
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

SAN ROBERTO

PACIFIC BREEZE

Ship's Name ASHBURTON.	Official Number 180963	Nationality and Port of Registry BRITISH PANAMANIAN LONDON. PANAMA	Gross Tonnage approx 5050. 5008 5032	Date of Build 1946	Port of Survey Glasgow
Moulded Dimensions: Length 410'-0" Breadth 56'-0" Depth 29'-10" to 2 nd Deck. To centre of stock					Surveyor's Signature <i>Wm. J. Smith</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12262 tons					Particulars of Classification +100 A.1.
Coefficient of fineness for use with Tables 0.737					With freeboard. (Class contin.)

Depth for Freeboard (D). Moulded depth ... 29.83 Stringer plate04 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 29.87	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(29.87 - 27.33) 3 = +7.62$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) 56'-0" 13.44 Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = NIL Difference 13-44 Restricted to $\frac{13.44}{4} \times .0078 = +.03$ Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$
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DEDUCTION FOR SUPERSTRUCTURES.

SLOPE check at 2nd Deck stringer. 42°

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	34.65	34.65	8'-7 1/2" ca.	✓	34.65
overhang ...	1.48	1.48	12'-10 1/2" ca.	✓	1.48
R.Q.D. enclosed ...	2.96				
overhang ...					
Bridge enclosed ...					
overhang aft ...					
overhang forward ...	367.35	367.35	10'-0" ca.	✓	367.35
F'cle enclosed ...	367.35	367.35	12'-9 1/4" ca.	✓	367.35
overhang ...	34				34
Trunk aft ...	4.46				
forward ...					
Tonnage opening aft ...	4.58	3.09			3.09
forward ...					
Total ...	410.00	406.91			406.91

Standard Height of Superstructure 7.5 ✓

" " R.Q.D. ✓

Deduction for complete superstructure 42.0

Percentage covered $\frac{S}{L} = 100\%$

" " $\frac{S_1}{L} =$

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

Percentage from Table, Line A. 99.07
(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 = $42.0 \times .9907 = -41.61$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	51.00	1		51.00	+30	65.5	1		65.50
1/4 L from A.P. ...	22.70	4		90.80	16.	29.15	4		116.60
2/4 L " ...	5.61	2		11.22	4 1/2	7.20	2		14.40
Amidships ...		4					4		
3/4 L from F.P. ...	11.22	2		22.44	13.	16.39	2		32.78
1/4 L " ...	45.40	4		181.60	50.	66.30	4		265.20
F.P. ...	102.00	1		102.00	119.	149.00	1		149.00
Total ...				459.06	+30				643.48

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{184.42}{18} \times .25 = -2.56$

If limited on account of midship superstructure. ✓

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 =

" " aft of " =

Standard Ht 7.5'

actual 10.0

Diff 2.5'

Excess added to end sheer = 30"

C.S.S.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 29.87

Summer freeboard = 3.44

Moulded draught (d) = 26.43

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.61 = 6 1/2

Addition for Winter North Atlantic Freeboard (if required) = NIL

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta = 12930 \text{ tons.}$

Tons per inch immersion at summer load water line

T = 46

Deduction = $\frac{\Delta}{40T}$ inches

= 7.03

= 7"

TABULAR FREEBOARD corrected for Fresh Deck (if required)

Correction for coefficient

 $\frac{.68 + .731}{1.36} = \frac{1.417}{1.36}$

+ -

Depth Correction ... 7.62

Deduction for superstructures ... 41.61

Sheer correction ... 2.56

Round of Beam correction03

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

7.65 44.17 - 36.52

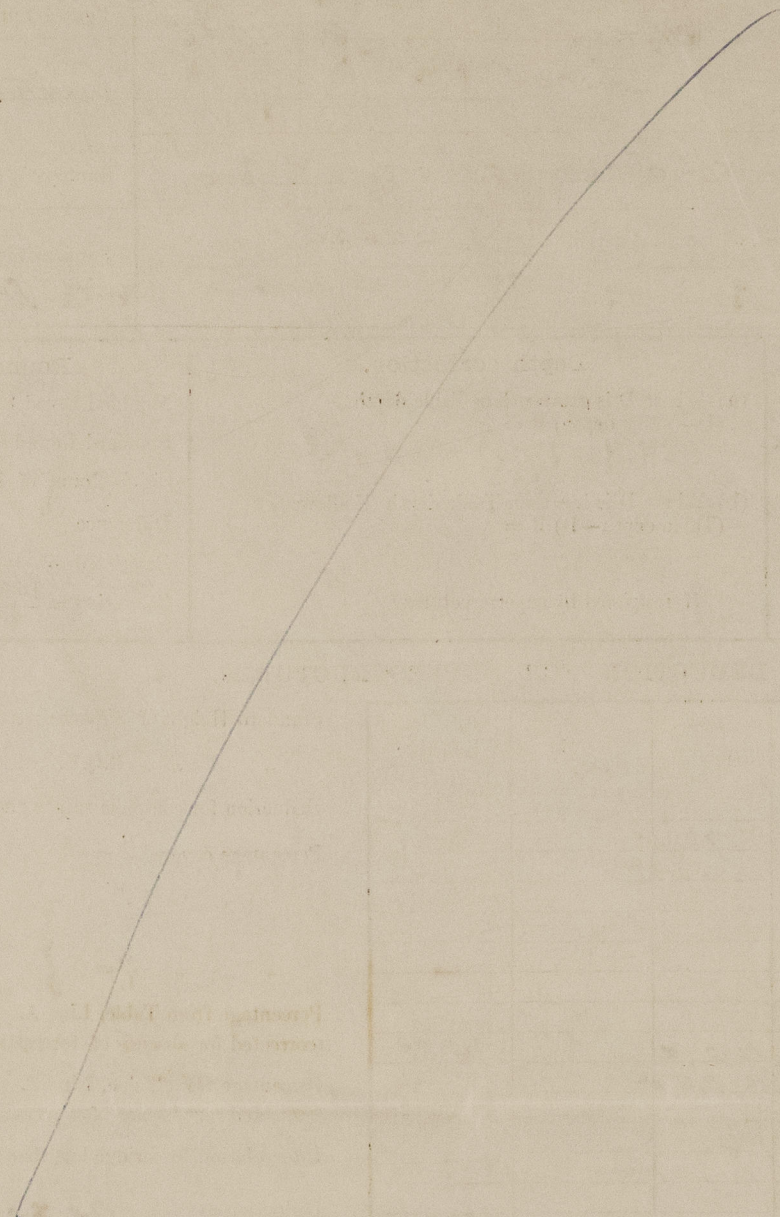
Summer Freeboard = 41.21

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

Tropical Fresh Water Line above Centre of Disc ...	13 1/2"
Fresh Water Line " " ...	7"
Tropical Line " " ...	6 1/2"
Winter Line below " " ...	6 1/2"
Winter North Atlantic Line " " ...	✓

Tropical Fresh Water Freeboard ...	3'-5 1/4"
Fresh Water " " ...	2'-3 3/4"
Tropical " " ...	2'-10 1/4"
Winter " " ...	2'-10 3/4"
Winter North Atlantic " " ...	3'-11 3/4"

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.



? These vessels Intermediate
prop- coas
ashburnton C.S.S.

Trade of ship Australian & International.

Names of sister ships

AUSTRALIND "ARDENVOHR"
1371. 1347.
68563. 62741.

Some builders yard no.
Glasgow reports

Builder's name and yard number WILLIAM DENNY & BROTHERS LTD. DUMBARTON. YARD NO. 1394.

Owners AUSTRALIND STEAM SHIPPING CO. LTD. (TRINDER, ANDERSON & Co. Managers)

Fee £16-0-0.

ms.



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Foundation