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Rpt. C.11 (Comp.).

Index. No. 33008.
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER.~~) (F.167)

Ship's Name <u>"ISLANDER."</u>	Official Number 161325	Nationality and Port of Registry British. London. Singapore	Gross Tonnage 1598.	Date of Build 1929-11.	Port of Survey <u>Singapore</u>
Moulded Dimensions: Length <u>235 ft.</u> Breadth <u>41.75 ft.</u> Depth <u>17.25 ft.</u>					Date of Survey <u>4/10/38</u> (Work not completed)
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>See above of 3005</u> tons					Surveyor's Signature <u>John Rormala</u>
Coefficient of fineness for use with Tables <u>.733</u>					Particulars of Classification <u>+100 A.I.</u> <u>S.S. No. 2-37.</u>

Depth for Freeboard (D). Moulded depth <u>17.25</u> Stringer plate <u>0.50"</u> <u>.04</u> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>17.29</u>	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(17.29 - 15.67) 1.807 = +2.93$ (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) <u>41.75</u> Standard Round of Beam = $\frac{B \times 12}{50} = 10.02$ Ship's Round of Beam <u>8"</u> = <u>8</u> Difference <u>2.02</u> Restricted to Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{2.02}{4} \times .0566 = +.03$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	23.42	23.42	8.00		23.42
„ overhang ...	16.03	8.01			8.01
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...	172.16	172.16	8.00		172.16
F'cle enclosed ...	6.39	4.79			4.79
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...	17.00	13.31			13.31
„ „ forward ...					
Total ...	235.00	221.69			221.69

Standard Height of Superstructure	6.00
„ „ R.Q.D.	
Deduction for complete superstructure	29.50
Percentage covered $\frac{S}{L} =$	100.00
„ „ $\frac{S_1}{L} =$	94.34
„ „ $\frac{E}{L} =$	94.34
Percentage from Table, Line A.	93.04
(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 =	29.50 x .9304 = - 27.45

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	33.50	1		33.50	36.00	60.00	1		60.00
$\frac{1}{2}$ L from A.P. ...	14.91	4		59.64	15.11	26.70	4		106.80
$\frac{2}{3}$ L „ ...	3.68	2		7.36	3.78	6.60	2		13.20
Amidships ...		4					4		
$\frac{2}{3}$ L from F.P. ...	7.37	2		14.74	6.15	8.62	2		17.24
$\frac{1}{2}$ L „ ...	29.82	4		119.28	24.59	34.87	4		139.48
F.P. ...	67.00	1		67.00	54.38	78.38	1		78.38
Total ...				301.52	+24"				415.10

Mean actual sheer aft = Excess
 Mean standard sheer aft = Excess

Mean actual sheer forward = Excess
 Mean standard sheer forward = Excess

Length of enclosed superstructure forward of amidships = 6.5.5.
 „ „ aft of „ = 6.5.5.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{113.58}{18} \times .25 = -1.58$
 If limited on account of midship superstructure.

Actual Tween Deck Height 8.00
 Standard „ „ 6.00
 2.00 = 24"

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <u>17.29</u> Summer freeboard = <u>.37</u> Moulded draught (d) = <u>16.92</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>4.23 = 4 1/4"</u> Addition for Winter North Atlantic Freeboard (if required) = <u>6 1/4"</u>	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 3555$ Tons per inch immersion at summer load water line $T = 19.58$ Deduction = $\frac{\Delta}{40T}$ inches = <u>4.54</u> <u>= 4 1/2"</u>	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient $\frac{733+68}{1.36} = \frac{1.413}{1.26}$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction ...</td> <td>2.93</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures ...</td> <td>-</td> <td>27.45</td> </tr> <tr> <td>Sheer correction ...</td> <td>-</td> <td>1.58</td> </tr> <tr> <td>Round of Beam correction ...</td> <td>.03</td> <td>-</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>-</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc. ...</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>2.96</td> <td>29.03</td> </tr> <tr> <td>Summer Freeboard =</td> <td></td> <td>4.48</td> </tr> </table>		+	-	Depth Correction ...	2.93	-	Deduction for superstructures ...	-	27.45	Sheer correction ...	-	1.58	Round of Beam correction03	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc. ...	-	-		2.96	29.03	Summer Freeboard =		4.48
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc ...	7"	Tropical Fresh Water Freeboard ...	MINUS 0 - 4 1/2"
Fresh Water Line „ „ ...	4 1/2"	Fresh Water „ „ ...	0 - 2 1/2"
Tropical Line „ „ ...	2 1/2"	Tropical „ „ ...	NIL
Winter Line below „ „ ...	4 1/4"	Winter „ „ ...	0 - 3" (LIMITED)
Winter North Atlantic Line „ „ ...	6 1/4"	Winter North Atlantic „ „ ...	0 - 8 3/4"
			0 - 10 3/4"

Islander.

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.

Displacement

Draft

13' 0"

14' 0"

15-10

16' 0"

Displacement

2628 tons

2854

3082

3315

100%

17.5 x 22.5

40.17 ✓

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9.91

23.42 Equine

6.12

9.91

16.03 Equivalents

Forcastle & Brid-

$$.69 \times 5.87 = 4.05$$
$$1.14 \times 14.0 = 28.73$$
$$10.95$$
$$\frac{41.73}{20.87}$$

2.38 ✓

1/2-16 Equiv

4.01

2.38
6.307

Yuw. Chang

Trade of ship Singapore to Christmas Island and Cocos Island
Names of sister ships Pine.

Names of sister ships Elone.

Builder's name and yard number Grangemouth Dockyard Co. Ltd., Grangemouth
 Owners Christmas Island Phosphate Co. Ltd.
 e.g. Post Office

Owners *Grangemouth Dockyard Co.*
Christmas Island Phosphate Co. Ltd.
 Fee *£* *Not yet charged.*

Fee £ *Not yet charged.*