

Aircvest. 36378.

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GRK REPORT NO. 21124

36409

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

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

NOV -4 1940

Ship's Name COULBEG.	Official Number 165992	Nationality and Port of Registry BRITISH GLASGOW.	Gross Tonnage 5237 APPROX 5200	Date of Build 1940	Port of Survey GREENOCK
Moulded Dimensions: Length 425 Breadth 56 Depth 36.75 To UPPER DK 27.75 To 2nd DK.				Date of Survey WHILE BUILDING	
Moulded displacement at moulded draught = 85 per cent. of moulded depth 11985. tons				Surveyor's Signature Renneth Inglis	
Coefficient of fineness for use with Tables .746				Particulars of Classification 100A1. WITH FREEBOARD (CONTEMPLATED)	

<p>Depth for Freeboard (D).</p> <p>Moulded depth 27.75 ✓</p> <p>Stringer plate 60" .05</p> <p>Sheathing on exposed deck ✓</p> <p>$T \left(\frac{L-S}{L} \right) =$</p> <p>2" COMPOSITION AND OP FRAME 18</p> <p>Depth for Freeboard (D) = 27.80</p>	<p>Depth correction.</p> <p>(a) Where D is greater than Table depth (D-Table depth) R = ✓</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R = (28.37 - 27.80) = -1.71" ✓</p> <p>57</p> <p>If restricted by superstructures ✓</p>	<p>Round of Beam correction.</p> <p>Moulded Breadth (B) 56'-0" ✓</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} = 13.44"$</p> <p>Ship's Round of Beam = 14" ✓</p> <p>Difference Excess 56"</p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{56}{4} \times .0061 = \text{Nil}$</p>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)
Peep enclosed ...	42.58 ✓	42.58	9'-0"	✓	42.58
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed...	377.80	377.80	9'-0"	✓	377.80
" overhang aft ...					
" overhang forward					
F'cle enclosed ^{ON SH D.K.}	34'-6 1/2		7'-6"		
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...	5.16 ✓	^{D.K. x 1/2} 2.58	9'-0"	✓	2.58
" forward					
Total ...	425.54	422.96			422.96

STURSES.

Standard Height of Superstructure..... 7' 5" ✓

" " R.Q.D. 42.00"

Deduction for complete superstructure

Percentage covered $\frac{S}{L} = 100.00$

" " $\frac{S_1}{L} = 99.39$

" " $\frac{E}{L} = 99.39$

Percentage from Table, Line A. 99.25

(corrected for absence of forecastle (if required)) ✓

Percentage from Table, Line B. ✓

(corrected for absence of forecastle (if required)) ✓

Interpolation for bridge less than $\cdot 2L$ (if required) ✓

Deduction = $42.00 \times .9925 = -41.69"$ —

SHEER CORRECTION.

Station	Standard Ordnate	S M	Product	Actual Ordnate +18	Effective Ordnate	S M	Product
A.P. ...	51.55	1	51.55	54 ✓	72.00	1	72.00
$\frac{1}{2}$ L from A.P. ...	23.385	4	93.54	24 ✓	32.04	4	128.16
$\frac{3}{4}$ L ..	5.78	2	11.56	6 ✓	7.92	2	15.84
Amidships ...	-	4	-	0 ✓	-	4	-
$\frac{3}{4}$ L from F.P. ...	11.56	2	23.12	12 ✓	13.86	2	27.72
$\frac{1}{2}$ L ..	46.775	4	187.10	48 ✓	56.07	4	224.28
F.P. ...	105.11	1	105.11	108 ✓	126.00	1	126.00
Total ...			472.98	+18			594.00

Actual Superstructure Dra. Height 9.0'
 Standard " " " 7.5'
 Mean actual sheer aft = Excess. 1.5'
 Mean standard sheer aft =
 Mean actual sheer forward = Excess
 Mean standard sheer forward =
 Length of enclosed superstructure forward of amidships =
 " " aft of " = } c.s.f.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{8}{21} \right) = \frac{121.06}{18} \times .25 = -1.68$ If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.
If limited on account of midship superstructure.

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <u>27.80</u></p> <p>Summer freeboard = <u>3.19</u></p> <p>Moulded draught (d) = <u>24.61</u></p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = $6.15 = 6\frac{1}{4}$"</p> <p>Addition for Winter North Atlantic Freeboard (if required) = <input checked="" type="checkbox"/></p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta = 24 - 12247$</p> <p>Tons per inch immersion at summer load water line</p> <p>$T = 24 - 47.33$</p> <p>Deduction = $\frac{\Delta}{40T}$ inches</p> <p>$= 6.65$</p> <p>$\approx 6\frac{3}{4}$"</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient $\frac{746 + 68}{1.36} = 1.426 / 1.36$</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Depth Correction</td> <td>-</td> <td>1.71</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>41.69</td> </tr> <tr> <td>Sheer correction</td> <td>-</td> <td>1.68</td> </tr> <tr> <td>Round of Beam correction</td> <td>-</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>-</td> <td>45.08</td> </tr> </tbody> </table> <p>Summer Freeboard = 45.08</p>		+	-	Depth Correction	-	1.71	Deduction for superstructures	-	41.69	Sheer correction	-	1.68	Round of Beam correction	-	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		-	45.08
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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	13"	Tropical Fresh Water Freeboard	2'-1 1/4"
Fresh Water Line	"	"	6 3/4"	Fresh Water	"	...	2'-7 1/2"
Tropical Line	"	"	6 1/4"	Tropical	"	...	2'-8"
Winter Line	below	"	6 1/4"	Winter	"	...	3'-8 1/2"
Winter North Atlantic Line	"	"	✓	Winter North Atlantic	"	...	✓

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.

Trade of ship INTERNATIONAL.

Names of sister ships S. S. AIRCREST. LITHGOWS LTD YARD NO 936

Builder's name and yard number LITHGOWS LTD YARD NO 938

Owners THE DORNOCH SHIPPING CO LTD (LAMBERT BROS. MANAGERS)

Approx Fee £ 16 0 0

To BE RENDERED WITH FIRST ENTRY



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Foundation