

23 FEB 1944

Index. No. 30177
(For London Office only).
No. 3623.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name HOLMDALE "EX" KYLEBERG Official Number 146275 Nationality and Port of Registry BRITISH DUNEDIN, N.Z. Gross Tonnage 676 Date of Build 12/1921

Port of Survey WELLINGTON, N.Z.
Date of Survey 12th & 14th Dec. 1943.
Surveyor's Signature L. S. Laigitt
Particulars of Classification WITHDRAWN FROM CLASS 2/1930 AT OWNER'S REQUEST.

Moulded Dimensions: Length 180.0' Breadth 28.75' Depth 13.31'
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons
Coefficient of fineness for use with Tables .72 assumed

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth	13.31'	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	28.75'
Stringer plate	.44"	(13.35 - 12.00) x 1.385 = + 1.87		Standard Round of Beam = $\frac{B \times 12}{50}$	6.9
Sheathing on exposed deck	.04"	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	7.5"
T $\left(\frac{L-S}{L}\right) =$				Difference	.6
Depth for Freeboard (D) =	13.35'	If restricted by superstructures	✓	Restricted to	
				Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L}\right)$	$\frac{.6}{4} \times \frac{22.63}{28.75} = -.03$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
.. overhang ...					
R.Q.D. enclosed ...	104.98	104.98	4.00	-	104.98
.. overhang ...					
Bridge enclosed ...	11.00	11.00	7.00	-	11.00
.. overhang aft ...					
.. overhang forward50	.25	7.00	-	.25
Fore enclosed <i>quilted</i> ...	21.89	21.89	7.00	-	21.89
.. overhang ...	2.29	1.14			1.14
Trunk aft ...					
.. forward ...					
Tonnage opening aft ...					
.. forward ...					
Total ...	140.66	139.26			139.26

Standard Height of Superstructure 6.0
" " R.Q.D. 3.533
Deduction for complete superstructure 24"
Percentage covered $\frac{S}{L} = 78.13$
" " $\frac{S_1}{L} = 77.37$
" " $\frac{E}{L} = 77.37$
Percentage from Table, Line A. 72.06
(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 = 24 x 72.06 = - 17.30

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	28.00	1		28.00	3.6"	47.60	1		47.60
$\frac{1}{2}$ L from A.P. ...	12.46	4		49.84	1.7"	21.18	4		84.72
$\frac{2}{8}$ L " ...	3.08	2		6.16	5"	5.23	2		10.46
Amidships ...	-	4		-	0"	-	4		-
$\frac{3}{8}$ L from F.P. ...	6.16	2		12.32	6.2"	6.50	2		13.00
$\frac{1}{2}$ L " ...	24.92	4		99.68	2.3"	27.00	4		108.00
F.P. ...	56.00	1		56.00	5.4"	64.00	1		64.00
Total ...				252.00					327.78

Mean actual sheer aft = 4.000
Mean standard sheer aft = 3.533
4.67 = 5.60

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{75.78 - 3906}{18 \times 3594} = -1.51$
If limited on account of midship superstructure.

Mean actual sheer forward = 3.533
Mean standard sheer forward = 3.533
Length of enclosed superstructure forward of amidships = 1
" " aft of " = 1

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 17.35'
Summer freeboard = 4.29'
Moulded draught (d) = 13.06'

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 3.27 = 3 3/4
Addition for Winter North Atlantic Freeboard (if required) = 5 1/4

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta =$
Tons per inch immersion at summer load water line
T = 10.1
Deduction = $\frac{\Delta}{40T}$ inches
d/4 = 3 1/4

TABULAR FREEBOARD corrected for Flush Deck (if required)
Correction for coefficient $\frac{72 + .68}{1.30} = \frac{1.40}{1.80} =$

	+	-
Depth Correction	1.87	-
Deduction for superstructures	-	17.30
Sheer correction	-	1.51
Round of Beam correction	-	.03
Correction for Thickness of Deck amidships	48.00	-
Other corrections, scantlings, etc.	-	-
	49.87	18.84
Summer Freeboard =	51.41	

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

Tropical Fresh Water Line above Centre of Disc	4 3/4"
Fresh Water Line	3 1/4"
Tropical Line	1 1/2"
Winter Line below	3 1/4"
Winter North Atlantic Line	5 1/4"

Tropical Fresh Water Freeboard	4' 3 1/2"
Fresh Water	3' 10 3/4"
Tropical	4' 0 1/4"
Winter	4' 2" (limited)
Winter North Atlantic	4' 6 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.

$$\begin{array}{r} \text{Fee.} \\ \text{Recen } \frac{3.67 \times 15}{24} = - 2.29 \\ \hline 21.89 \text{ equivt} \\ \text{deducted.} \end{array}$$

Trade of ship NEW ZEALAND COASTAL CARGO SERVICE.

Names of sister ships "PORT WAIKATO"

Builder's name and yard number DUBLIN SHIPBUILDERS LTD, DUBLIN, N° 17.

Owners DUNEDIN WANGANUI SHIPPING CO LTD (HOLM & CO LTD MANAGERS).

Fee £ 18. 15. -
5. 4. 11 (Expenses & Cables)



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