

Lloyd's Register of Shipping.

Index. No. 39712
(For London Office only).

SURVEYS FOR FREEBOARD.

25 JUN 1948

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

Ship's Name "STANFIRTH" (ex HMS "BEAULY FIRTH")	Official Number ✓	Nationality and Port of Registry BRITISH: LONDON.	Gross Tonnage ✓	Date of Build 1945.	Port of Survey NEWCASTLE-ON-TYNE.
Moulded Dimensions: Length 425.83' Breadth 56.0' Depth 38.06' <i>To centre of Rudder Stock.</i>					Date of Survey JUNE 1948.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 17.175 tons					Surveyor's Signature D. Snedden.
Coefficient of fineness for use with Tables .779					Particulars of Classification +100A1 with Freeboard

Depth for Freeboard (D). Moulded depth ... 38.06' Stringer plate06' Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = \frac{2.5}{12} \times 8366$.17 Depth for Freeboard (D) = 38.29' 38.33'	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = $(38.29 - 28.39) 3 = +29.70''$ 9.90 (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures ✓	Round of Beam correction. Moulded Breadth (B) 56.0' Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.44 Ship's Round of Beam = 14.25 Difference + 0.81 Restricted to Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.81}{4} \times 8366 = -17''$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	35.33'	35.33	3.21'	3.04 6.00	17.90
.. overhang ...	✓		-17		
R.Q.D. enclosed ...					
.. overhang ...					
Bridge enclosed ...					
.. overhang aft ...					
.. overhang forward					
F'cle enclosed ...	34.25'	34.25	6.75'	6.58 7.50	30.05
.. overhang ...	✓		-17		
Trunk aft ...					
.. forward ...					
Tonnage opening aft ...					
.. forward					
Total ...	69.58	69.58			47.95

Standard Height of Superstructure	7.50
.. R.Q.D.	6.00
Deduction for complete superstructure	42.00
Percentage covered $\frac{S}{L} =$	16.34
.. $\frac{S_1}{L} =$	
.. $\frac{E}{L} =$	11.26
Percentage from Table, Line A.	5.63
(corrected for absence of fore-castle (if required))	
Percentage from Table, Line B.	✓
(corrected for absence of fore-castle (if required))	
Interpolation for bridge less than 2L (if required)	✓
Deduction = $42.00 \times .0563 =$	2.36

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	52.58	1	52.58	—	—	1	—
$\frac{1}{2}$ L from A.P. ...	23.40	4	93.60	—	—	4	—
$\frac{3}{4}$ L ..	5.785	2	11.57	—	—	2	—
Amidships ...	—	4	—	—	—	4	—
$\frac{3}{4}$ L from F.P. ...	11.57	2	23.14	—	—	2	—
$\frac{1}{2}$ L ..	46.80	4	187.20	5.31"	5.31	4	21.24
F.P. ...	105.17	1	105.17	79.50"	79.50	1	79.50
Total ...			473.26				100.74

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{372.52}{18} \left(.75 - .0817 \right) = +13.83$
 If limited on account of midship superstructure. **.6683** 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 = **38.33'**
 Summer freeboard = **11.65'**
 Moulded draught (d) = **26.68'**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **6.67" = 6 $\frac{3}{4}$ "**

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

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$$\Delta = 13890 \text{ tons}$$

Tons per inch immersion at summer load water line

$$T = 49.0$$

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

$$= 7.09''$$

$$= 7''$$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$$\frac{.779 + .68}{1.36} = \frac{1.459}{1.36}$$

Depth Correction ... **29.70**

Deduction for superstructures ... **2.36**

Sheer correction ... **13.83**

Round of Beam correction ... **.17**

Correction for Thickness of Deck amidships ... **.48**

Other corrections, scantlings, etc. **12.87**

to a summer draught of 26.9'

Summer Freeboard = **139.75**

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

Tropical Fresh Water Line above Centre of Disc	13$\frac{3}{4}$"
Fresh Water Line	7$\frac{1}{2}$"
Tropical Line	6$\frac{3}{4}$"
Winter Line below	6$\frac{3}{4}$"
Winter North Atlantic Line	6$\frac{3}{4}$"

Tropical Fresh Water Freeboard	10$\frac{1}{2}$"
Fresh Water	11$\frac{1}{2}$"
Tropical	11$\frac{1}{2}$"
Winter	12$\frac{1}{2}$"
Winter North Atlantic	12$\frac{1}{2}$"

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 Ocean going Cargo Vessel.

Names of sister ships "C" Type Cargo Vessels ss "LINARIA"

Builder's name and yard number Messrs J. Readhead & Sons Ltd N° 541.

Owners Stanhope Steamship Co. Ltd.

Fee £ To be charged with First Entry fee.

[Signature]



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Foundation