

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

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

Received
 Index No.
 Govt. Copy
 Owners C11

Ship's Name "FERNLAND"	Official Number	Nationality and Port of Registry NORWEGIAN OSLO	Gross Tonnage 5564	Date of Build	Port of Survey LONDON OFFICE
Moulded Dimensions: Length 58.54 Breadth 37.67 Depth 37.67					Date of Survey 16-5-61
Freeboard Length 426.58' to str. of rudder stock					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)					Particulars of Classification 100A1 WITH FREEBOARD
Coefficient of fineness for use with Tables .719 (Est.)					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	37.67	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	58.54
Stringer plate	57" .05	(37.72 - 28.44) 3 = + 27.84		Standard Round of Beam = $\frac{B \times 12}{50}$	14.05
Wood Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	14.00
$T \left(\frac{L-S}{L} \right) =$				Difference	-.05
Depth for Freeboard (D) =	37.72	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right)$	$\frac{.05}{4} \times .8367 = +.01$

DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	33.73	33.73	7.50		33.73
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed	35.94	35.94	7.75		35.94
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	69.67	69.67			69.67

Standard Height of Superstructure **7.50'**
 " " R.Q.D.
 Deduction for complete superstructure **42.00**
 Percentage covered $\frac{S}{L} =$ } 16.33
 $\frac{S_1}{L} =$ } 6.72
 $\frac{E}{L} =$ } 5 (42.00 - 35.94)
42.66
 Percentage from Table, Line A. **8.17 - 0.79 = 7.38**
 (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 x .0738 = 3.10**

SHEER CORRECTION.							
Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	52.66	1	52.66	60.00	52.66	1	52.66
1/4 L from A.P.	23.43	4	93.72	26.87	23.43	4	93.72
1/2 L	5.79	2	11.58	0	5.19	2	10.38
Amidships	0	4	0	0	0	4	0
3/4 L from F.P.	11.59	2	23.18	0	0	2	0
1/4 L	46.87	4	187.48	47.25	47.25	4	189.00
F.P.	105.32	1	105.32	120.00	120.00	1	120.00
Total			473.94				465.76

Mean actual sheer aft = **Excess. limited to standard**
 Mean standard sheer aft =
 Mean actual sheer forward = **Deficient**
 Mean standard sheer forward =
 Length of enclosed superstructure forward of amidships = } **nil**
 " " aft of " = }
 Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{8.18}{18} (.75 - .0817) = +.30$
 If limited on account of midship superstructure. **.6683** If limited to maximum allowance of 1 1/2 ins. per 100ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 37.72 Summer freeboard = 8.94 Moulded draught (d) = 28.78 Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for = Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40 T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.719 + .68}{1.36} = 1.329$ Depth Correction ... 27.84 Deduction for superstructures ... 3.10 Sheer correction30 Round of Beam correction01 Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... 2815 2.10 + 25.15 Summer Freeboard = 107.18
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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	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	Fresh Water	"
Tropical Line	"	Tropical	"
Winter Line below	"	Winter	"
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.

Sheers (Aft)

<u>Standard</u>		<u>Actual</u>	<u>Standard</u>	<u>Actual</u>
52.66	1	60.00	52.66	60.00
23.43	3	26.87	70.29	80.61
5.79	3	0	17.37	0
			140.32	140.61

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £ : :

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950", paragraph 11.)



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