

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "SODALITY"	Official Number 166564	Nationality and Port of Registry British London	Gross Tonnage 850.94 829 by 3.2.38	Date of Build 1	Port of Survey Warrington (Completing at 5.00)
Moulded Dimensions: Length 188.17 Breadth 30.0 Depth 14.58 ✓					Date of Survey while building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1507 1495 tons					Surveyor's Signature J. Macleod for J. Hodgeson & self.
Coefficient of fineness for use with Tables .759 ✓					Particulars of Classification 100A.1. (contemplated).

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth 14.58	(a) Where D is greater than Table depth (D - Table depth) R = (14.62 - 12.54) 1.447 = +3.01" ✓	Moulded Breadth (B) 30
Stringer plate04	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 2.08	Standard Round of Beam = $\frac{B \times 12}{50} =$ 7.20 ✓
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = 7.50 ✓
Depth for Freeboard (D) = 14.62 ✓		Difference Excess -30 ✓
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times (1 - \frac{S_1}{L}) = 204 \times \frac{30}{4} = - .02" ✓$

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	116.0	116.0 ✓	4.5		116.0 ✓
.. overhang					
Bridge enclosed	11.0	11.0 ✓	7.0		11.0 ✓
.. overhang aft					
.. overhang forward					
Fore enclosed Houses	22.66	22.66 ✓	7.0		22.66
.. overhang26	.13 ✓			-13
.. forward					
Tonnage opening aft					
.. " forward					
Total	149.92	149.79			149.79

Standard Height of Superstructure	6.00' ✓
" " R.Q.D.	3.588' ✓
Deduction for complete superstructure	24.82" ✓
Percentage covered $\frac{S}{L} =$ 79.68 ✓	
" " $\frac{S_1}{L} =$ 79.60 ✓	
" " $\frac{E}{L} =$ 79.60 ✓	
Percentage from Table, Line A. 74.80 ✓	
(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 = 24.82 × .748 = -18.56" ✓	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	28.82	1		28.82	56	66.94	1		66.94
1/4 L from A.P.	12.82	4		51.28	28	29.78	4		119.12
1/2 L "	3.17	2		6.34	8	7.36	2		14.72
Amidships		4			0		4		
3/4 L from F.P.	6.34	2		12.68	9	9.00	2		18.00
1/4 L "	25.65	4		102.60	32	32.00	4		128.00
F.P.	57.63	1		57.63	72	72.00	1		72.00
Total				259.35					418.78

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{159.43}{18} \left(.75 - \frac{39.84}{18} \right) = -3.11" \text{ (limited as below)}$

If limited on account of midship superstructure.

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 = **>.1L**

" " aft of " = **>.1L**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line Δ = 1774 ✓	Correction for coefficient $\frac{754 + .68}{1.36} = \frac{1.434}{1.36} ✓$
RAISED QUARTER Depth to Freeboard Deck = 19.12 Ft.	Tons per inch immersion at summer load water line T = 11.6 ✓	Depth Correction 3.01
Summer freeboard = 4.81	Deduction = $\frac{\Delta}{40 T}$ inches = 3.82" ✓	Deduction for superstructures -18.56
Moulded draught (d) = 14.31	Mid-haft = End Draft T.P.I.	Sheer correction 2.82
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 3.58 = 3 1/2" ✓	14.6" 1800 11.6 14.0" 1730 " 13.6" 1660 "	Round of Beam correction - .02
Addition for Winter North Atlantic Freeboard (if required) = 5 1/2" ✓		Correction for Thickness of Deck amidships 54.00
		Other corrections, scantlings, etc.
		57.01 21.40 + 35.61 ✓
		Summer Freeboard = 57.87 ✓

SUMMER FREEBOARD amidships from Centre of

Tropical Fresh Water Line above Centre of Disc	7 1/4" ✓
Fresh Water Line " "	3 3/4" ✓
Tropical Line " "	3 1/2" ✓
Winter Line below " "	3 1/2" ✓
Winter North Atlantic Line " "	5 1/2" ✓

Tropical Fresh Water Freeboard	4' - 9 3/4" ✓
Fresh Water " "	4' - 2 1/2" ✓
Tropical " "	4' - 6 1/4" ✓
Winter " "	5' - 1 1/4" ✓
Winter North Atlantic " "	5' - 3 1/4" ✓

Sodality

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.

Forecastle
(to be published)

Surveyor
signature

VTIA4002

Forecastle
Port House $\frac{4.08 \times 4.83}{28}$ ✓ =
Starboard House $\frac{7.25 \times 3.67}{28}$ ✓ =

21.01 ✓
.70 ✓
.95 ✓

82.41

0.08

71.881

22.66 Equivalent
22.92 to overhang on middle line
.26 equiv. overhang.

82.41
40.

82.41

0.01	2.4	0.11	0.11
0.11	7.0	0.11	0.11
22.66	7.0	22.66	22.66

22
82
8
0
9
53
55

Trade of ship

Names of sister ships S.S. "Homewood" & "Colima"

Builder's name and yard number Messrs R. Williamson & Sons Ltd. No. 244.

Owners Messrs Kendrick & Everard & Sons. Ltd.

Fee £ 1/2 to be charged later.

1/2 to be charged later
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