

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name GRANNY SUZANNE (EX SPRINGWAVE)	Official Number 147570	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 503	Date of Build 1918	Port of Survey BARRY
Moulded Dimensions: Length 160.0 Breadth 25.10 3/4 Depth 12.7					Date of Survey 25/12/47 2/12/47
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature <i>J. M. ...</i>
Coefficient of fineness for use with Tables .78					Particulars of Classification 100A For coasting service in European Waters, Mediterranean & Black Sea (contemplated)

Depth for Freeboard (D). 12.58 Moulded depth ... 12.7 Stringer plate35 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$.03 Depth for Freeboard (D) = 12.61	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(12.61 - 10.67) 1.23 = + 2.39$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) 6" 25.90 Standard Round of Beam = $\frac{B \times 12}{50} =$ 6.22 Ship's Round of Beam = 6.00 Difference .22 Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.22}{4} \times .55 = + .03$
--	---	--

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	48.6	48.50	6.67	✓	48.50
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed ...	23.2	23.17	6.67	✓	23.17
„ overhang ...	4.1	.17			.17
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...	72.0	71.84			71.84

Standard Height of Superstructure **6.0'** ✓

„ „ R.Q.D. ✓

Deduction for complete superstructure **22.0"**

Percentage covered $\frac{S}{L} =$ **45** ✓

„ „ $\frac{S_1}{L} =$ **44.9** ✓

Percentage from Table, Line A. **27.66** ✓

(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 = **22.0 × .2766 = 6.09** ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	23 26.00	1	✓	26.00	23	23	1	✓	23
1/8 L from A.P. ...	7 11.57	4	✓	46.28	7	7	4	✓	28
2/8 L „ ...	2 2.86	2	✓	5.72	1	1	2	✓	2
Amidships ...	0	4	✓	-	-	-	4	✓	-
2/8 L from F.P. ...	8 5.72	2	✓	11.44	8	7.35	2	✓	14.70
1/8 L „ ...	24 23.44	4	✓	92.56	27	25.86	4	✓	103.44
F.P. ...	72 52.00	1	✓	52.00	72	66.26	1	✓	66.26
Total ...			✓	234.00					237.40

Mean actual sheer aft = **.6783** ✓

Mean standard sheer aft

Mean actual sheer forward = **Excess**

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **NIL**

„ „ aft of „ = **NIL**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{3.40}{18} \left(\frac{.75 - .225}{.525} \right) = - .10$

If limited on account of midship superstructure. **YES NIL** ✓

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **12.61** Ft.

Summer freeboard = **1.21**

Moulded draught (d) = **11.40**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **2.85 = 2 3/4**

Addition for Winter North Atlantic Freeboard (if required) = **not assigned**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

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

= **3"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.78 + .68}{1.36} = \frac{1.46}{1.36}$

Depth Correction ... **2.39**

Deduction for superstructures ... **6.09**

Sheer correction ... **.03**

Round of Beam correction ... **.03**

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

Summer Freeboard = **14.467**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, **Wood, Steel, Deck** = **1' 2"**

1906 (P.C.) **freeboards reassigned**

Tropical Fresh Water Line above Centre of Disc **not assigned**

Fresh Water Line **3"**

Tropical Line **not assigned**

Winter Line **1 1/2"**

Winter North Atlantic Line **not assigned**

Tropical Fresh Water Freeboard ...

Fresh Water ...

Tropical ...

Winter ...

Winter North Atlantic ...

1' 2"

11"

1' 3 1/2"

1' 3 1/2"

1' 3 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.

Sheer allowance:-

	<u>Sheer aft</u>					
	std	Actual		std	Actual	
AP	26	23	1	26	23	$\frac{47}{69.29} = .6783$ ✓
1/6	11.57	7	3	34.71	21	
2/6	2.86	1	3	8.58	3	$\frac{.1783}{.25} = .7132$ ✓
x	0	0	1			
				69.29	47	

Sheer forward:-

	Ord	2/6	1/6	F.P.
std	0	5.72	23.04	52
Actual	0	8.00	27.00	72
Diff	0	2.28	3.96	20
Diff x .7132	0	1.63	2.82	14.26
std	0	5.72	23.04	52.00
Effective	0	7.35	25.86	66.26

Trade of ship

Names of sister ships

Builder's name and yard number

JOHS BERG.

Owners

A. G. TSAVLIRIS

Fee

8-0-0



© 2020

Lloyd's Register
Foundation