

Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.

Computation of Freeboard for <del>Steamer, Sailing Ship, Tanker</del>				Port of Survey	
having <u>Poop Trunk Bridge Trunk Forecastle.</u>					
(Type of Superstructures.)					
Builders <del>Ship's</del> Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	
<u>Turners S/B. Co. No 266-Y.</u>					
Moulded Dimensions: Length <u>365.25</u> x Breadth <u>64.00</u> x Depth <u>18.00</u> x					
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>8575.</u> x tons					
Coefficient of fineness for use with Tables <u>.839.</u> x					
				Date of Survey <u>14-1-34.</u>	
				Name of Surveyor _____	
				Particulars of Classification <u>+ 100 A1. (contemplated)</u> <u>carrying petroleum in bulk.</u>	

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... .. <u>18.00</u> ✓ Stringer plate ... <u>50"</u> ... .. <u>.04</u> ✓ Sheathing on exposed deck ✓ $T \left( \frac{L-S}{L} \right) =$	(a) Where D is greater than Table depth (D - Table depth) R = ✓ (b) Where D is less than Table depth (if allowed) (Table depth - D) R = <u>(24.35 - 18.04) 2.809 = -17.42" x</u> <u>6.31 x</u> If restricted by superstructures ✓	Moulded Breadth (B) = <u>64.0</u> Standard Round of Beam = $\frac{B \times 12}{50} =$ <u>15.36" x</u> Ship's Round of Beam = <u>15.375" x</u> Difference <u>excess</u> = <u>.015 x</u> Restricted to Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <u>.015 x .2682</u> <u>4 x 2649 = Nil.</u> ✓
Depth for Freeboard (D) = <u>18.04.</u> ✓		

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	✓ 88.75	88.75	8.0	✓	88.75
„ overhang ...	✓ .50	.25	✓	✓	.25
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...	✓ 36.00	36.00	8.0	.9	32.40
„ overhang aft ...	✓ .25	.19	✓	✓	.19
„ overhang forward	✓ .25	.12	✓	✓	.12
F'cle enclosed ...	✓ 36.50	36.50	8.0	✓	36.50
„ overhang ...	✓ .25	.12	✓	✓	.12
Trunk aft ...		70.44	8.0	x .9	63.57
„ forward ...		34.69	8.0	✓	34.69
Tonnage opening aft ...					
„ „ forward					
Total ...	162.50	267.39	26.		256.41

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	46.52	1	46.52	47.62	47.62	1	47.62
$\frac{1}{8}$ L from A.P. ...	20.70	4	82.80	20.25	20.25	4	81.00
$\frac{3}{8}$ L " ...	5.12	2	10.24	4.62	4.62	2	9.24
Amidships ...	—	4	—	—	—	4	—
$\frac{5}{8}$ L from F.P. ...	10.24	2	20.48	10.25	10.25	2	20.50
$\frac{1}{2}$ L " ...	41.41	4	165.64	41.62	41.62	4	166.48
F.P. ...	93.05	1	93.05	98.75	98.75	1	98.75
Total ...	418.72		418.73				423.59

Mean actual sheer aft = Deficient > 75% Standard.

Mean standard sheer aft

Mean actual sheer forward = Excess.

Mean standard sheer forward

Length of enclosed superstructure forward of amidships =

L

" " aft of " = } Tanker

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{8}{2L} \right) = \frac{4.86}{18} (.75 - .2225) = -.14''$$

If limited on account of midship superstructure. ✓

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft. ✓

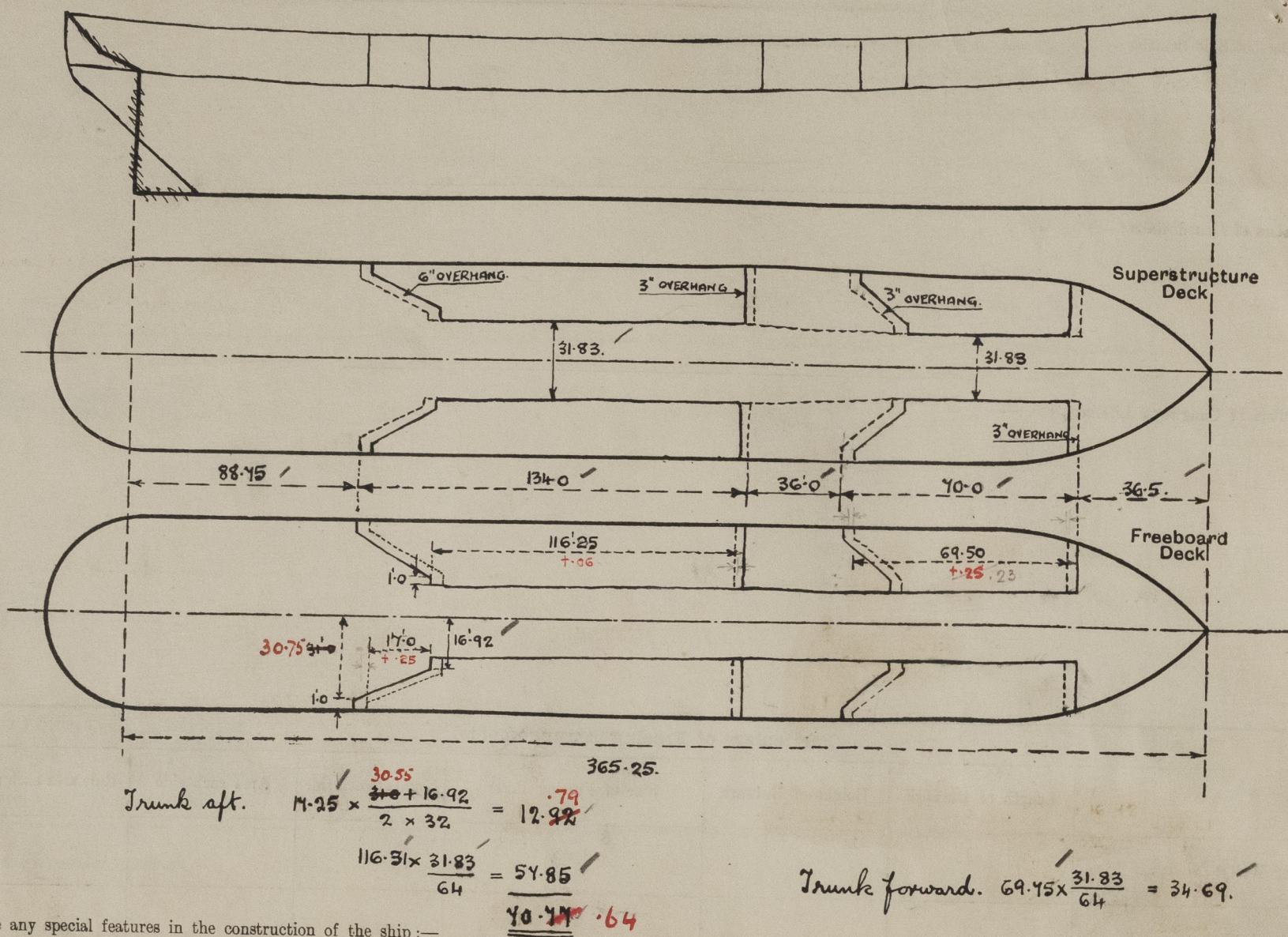
Deduction for Tropical Freeboard.		Deduction for Fresh Water.		TABULAR FREEBOARD <del>corrected for</del> Flush Deck (if required)		54.66	
Addition for Winter and Winter North Atlantic Freeboard.		Displacement in salt water at summer load water line		Correction for coefficient $\frac{.839 + .68}{1.36} = \frac{1.519}{1.36} =$		61.05	
Depth to Freeboard Deck	=	Ft. 18.04	Δ =	Depth Correction ...	-	17.42	×
Summer freeboard	=	1.50	Tons per inch immersion at summer load water line	Deduction for superstructures ...	-	25.14	✓
Moulded draught (d)	=	16.54	T =	Sheer correction ...	-	.14	-
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 4.13 = 4 1/4			Deduction = $\frac{\Delta}{40T}$ inches = 4/4 = 1	Round of Beam correction ...	-	-	
Addition for Winter North Atlantic Freeboard (if required) = <del>3.65 - 3 3/4" + 4 1/4" = 8"</del>				Correction for Thickness of Deck amidships ...	-	-	
3.65 + 4.13 = 7.78 = 7 3/4"				Other corrections, scantlings, etc. ...	-	-	
					-	42.98	42.98
					-	43.00	43.00
						Summer Freeboard =	18.05

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

Tropical Fresh Water Line above Centre of Disc	...	...	8 1/2"	Tropical Fresh Water Freeboard	...	...	0'-9 1/2"
Fresh Water Line	"	"	4 1/4"	Fresh Water	"	"	1'-1 3/4"
Tropical Line	"	"	4 1/4"	Tropical	"	"	1'-1 3/4"
Winter Line	below	"	4 1/4"	Winter	"	"	1'-10 1/4"
Winter North Atlantic Line	"	"	8" 7 3/4"	Winter North Atlantic	"	"	2'-8" 1 3/4"



Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

Closing appliances on superstructure end bulkheads taken from General Arrangement plan sent by Isherwood and returned 18/1/34.

Builder's name and yard number

Names of sister ships

Owners

Fee £ : : :

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