

Preliminary
Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer <u>Sailing Ship</u> , Tanker					Port of Survey _____
having: <u>Poop Trunk (Bridge) Trunk Forecastle.</u>					Date of Survey <u>16-1-34</u>
<u>no allowance for Bridge.</u>					Name of Surveyor _____
(Type of Superstructures.)					Particulars of Classification <u>+100 A1 (contemplated)</u>
Builder's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	<u>carrying petroleum in bulk.</u>
<u>Furness S/B. Co N^os 266-7.</u>					
Moulded Dimensions: Length <u>365.25</u> Breadth <u>64.00</u> Depth <u>18.00</u>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables _____					

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Stringer plate		Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Ship's Round of Beam =
	<u>-17.72</u>	Difference
Depth for Freeboard (D) =	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed	88.45	88.45	8.0	✓	88.45	Standard Height of Superstructure _____
„ overhang50	.25	✓	✓	.25	„ „ R.Q.D. _____
R.Q.D. enclosed						Deduction for complete superstructure <u>39.68</u>
„ overhang						Percentage covered $\frac{S}{L} = 34.50$
Bridge enclosed						„ „ $\frac{S_1}{L} = 68.22 \cdot 18$
„ overhang aft						„ „ $\frac{E}{L} = 68.22 \cdot 18$
„ overhang forward						Percentage from Table, Line A. <u>61.24</u>
F'cle enclosed	36.50	36.50	8.0	✓	36.50	(corrected for absence of forecastle (if required))
„ overhang25	.124	✓	✓	.124	Percentage from Table, Line B.
Trunk aft39			.39	(corrected for absence of forecastle (if required))
„ forward		123.52	8.0	✓	123.52	Interpolation for bridge less than 2L (if required)
Tonnage opening aft						Deduction = $39.68 \times \frac{.61}{.61} = 24.20$
„ „ forward01			.01	
Total	126.00	249.14			249.14	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	Mean actual sheer aft =
A.P.		1					1			Mean standard sheer aft =
$\frac{1}{4}$ L from A.P.		4					4			Mean actual sheer forward =
$\frac{2}{8}$ L „		2					2			Mean standard sheer forward =
Amidships		4					4			Length of enclosed superstructure forward of amidships =
$\frac{2}{8}$ L from F.P.		2					2			„ „ aft of „ =
$\frac{1}{4}$ L „		4					4			
F.P.		1					1			
Total										

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{4.86}{18} (.75 - .1725) = -.16$

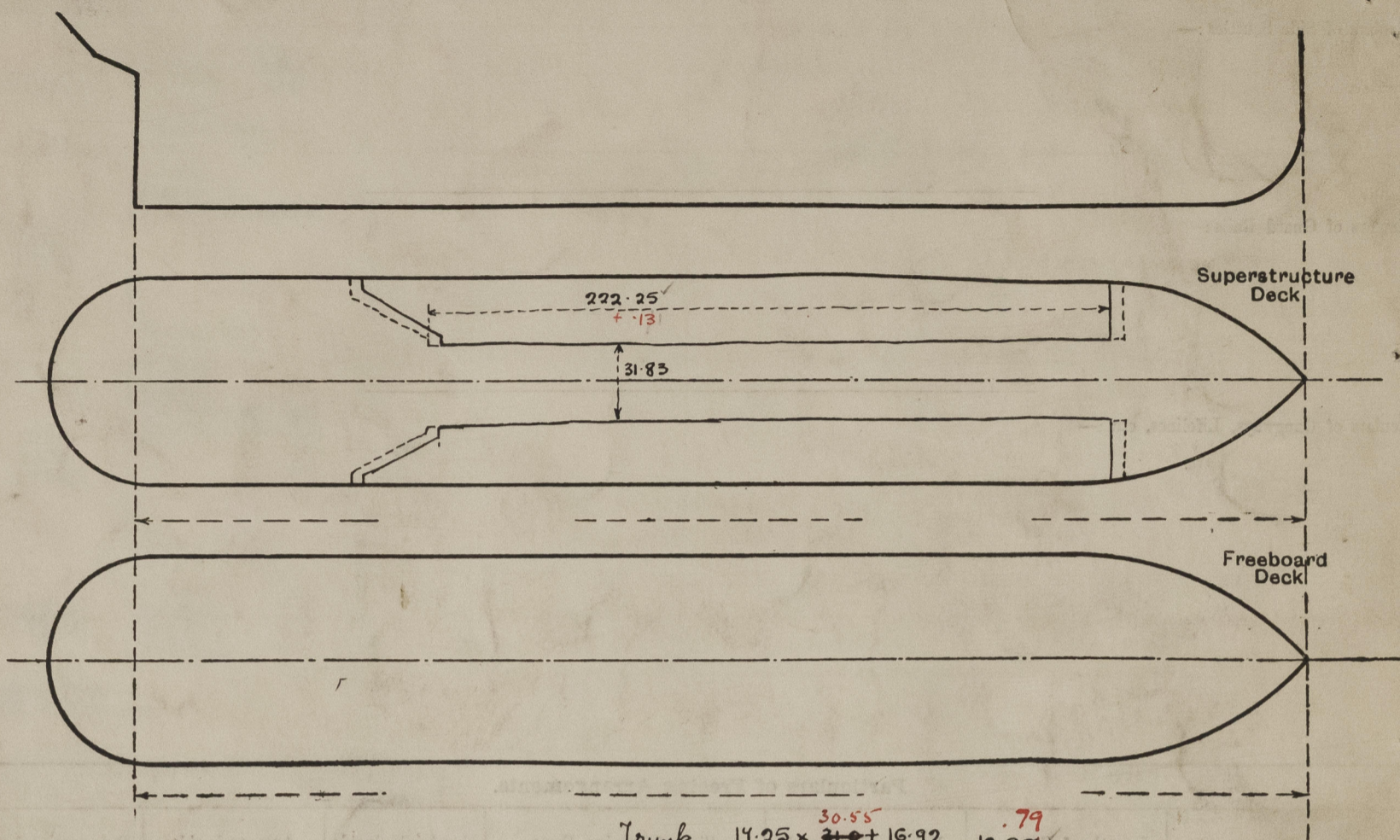
If limited on account of midship superstructure. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient
Depth to Freeboard Deck = Ft.	$\Delta =$	
Summer freeboard =	Tons per inch immersion at summer load water line	Depth Correction 17.72
Moulded draught (d) =	T =	Deduction for superstructures 24.20
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =	Deduction = $\frac{\Delta}{40T}$ inches =	Sheer correction16
Addition for Winter North Atlantic Freeboard (if required) =		Round of Beam correction
		Correction for Thickness of Deck amidships
		Other corrections, scantlings, etc.
		Summer Freeboard =

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 „ „

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:—



Trunk. $14.25 \times \frac{30.55}{2 \times 32} + 16.92 = 12.32$ ^{.79}

$222.38 \times \frac{31.83}{64} = 110.60$ ^X

123.52 ^{.39}

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

Builder's name and yard number.....

Names of sister ships.....

Owners.....

Fee £ : : Received by me.....