

Cargo Draft
Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having erections & sheer as given
on plans
(Type of Superstructures.)

Port of Survey _____

Date of Survey _____

Name of Surveyor _____

Particulars of Classification _____

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
<u>Odense No 57458</u>				

Moulded Dimensions: Length 1480 Breadth 65.25 Depth 35.92.

Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons

Coefficient of fineness for use with Tables .794 ✓

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <u>35.92</u>	(a) Where D is greater than Table depth (D-Table depth) R = <u>+ 11.97</u> ✓	Moulded Breadth (B)
Stringer plate <u>.07</u>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		Ship's Round of Beam =
		Difference
Depth for Freeboard (D) = <u>35.99</u> ✓	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>- .01</u> ✓

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					
„ overhang					
Bridge enclosed... ..	<u>37.53</u>				<u>37.53</u>
„ overhang aft					
„ overhang forward					
F'cle enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total					

Standard Height of Superstructure 7.50

„ „ R.Q.D. ✓

Deduction for complete superstructure 42.00

Percentage covered $\frac{S}{L} =$

„ „ $\frac{S_1}{L} =$ } 36.12%

„ „ $\frac{E}{L} =$

Percentage from Table, Line A. .18

(corrected for absence of forecastle (if required)) 20.70%

Percentage from Table, Line B. .18

(corrected for absence of forecastle (if required)) 24.70%

Interpolation for bridge less than 2L (if required) .18

Deduction = 42 x .2177 = - 9.14 13 74

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{4}$ L from A.P.		4				4	
$\frac{2}{4}$ L „		2				2	
Amidships		4				4	
$\frac{2}{4}$ L from F.P.		2				2	
$\frac{1}{4}$ L „		4				4	
F.P.		1				1	
Total			<u>522</u>				<u>307.10</u>

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

„ „ aft of „ = } Sheer
deficient.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{214.90}{18} (.75 - .1805) = + 6.80$ ✓

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. Addition for Winter and Winter North Atlantic Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Depth to Freeboard Deck = <u>35.99</u> ✓	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.794 + .63}{1.36} = \frac{1.424}{1.36}$
Summer freeboard = <u>9.50</u> ✓	Tons per inch immersion at summer load water line	Depth Correction <u>11.97</u> ✓
Moulded draught (d) = <u>26.49</u> ✓	T =	Deduction for superstructures <u>- 7.14</u> ✓
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =	Deduction = $\frac{\Delta}{40T}$ inches =	Sheer correction <u>6.80</u> ✓
Addition for Winter North Atlantic Freeboard (if required) =		Round of Beam correction <u>- .01</u> ✓
		Correction for Thickness of Deck amidships <u>-</u>
		Other corrections, scantlings, etc. <u>-</u>
		Summer Freeboard = <u>114.08</u> ✓

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Weed, 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 „ „

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003341-003348-0154