Rpt. C,11.

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(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~

having COMPLETE SUPERSTRUCTURE WITH TONNAGE OPENING

(Type of Superstructures.)

Port of Survey

Date ~~of Survey~~ 6-5-31.

Name of Surveyor

Particulars of Classification +100 A.1. WITH FREEBOARD.

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
M.S. VASAHOLM.	GOTHENBURG. SWEDISH.			1930.

Moulded Dimensions: Length 390·0 Breadth 52·50 Depth 26·25.

Moulded displacement at moulded draught = 85 per cent. of moulded depth NOT YET RECEIVED tons

Coefficient of fineness for use with Tables ✓

Depth for Freeboard (D)

Moulded depth ... ... 26·25

Stringer plate ... ... ·04

Sheathing on exposed deck ✓

$T\left(\frac{L-S}{L}\right)$ =

Depth for Freeboard (D) = 26·29

Depth correction

(a) Where D is greater than Table depth
(D—Table depth) R =
(26·29 − 26·00) × 3·0 = +·87

(b) Where D is less than Table depth (if allowed)
(Table depth—D) R =

If restricted by superstructures ✓

Round of Beam correction

Moulded Breadth (B)

Standard Round of Beam = $\frac{B \times 12}{50}$ = 12·60

Ship's Round of Beam = 13·25

Difference ·65

Restricted to

Correction = $\frac{\text{Diff}^{e}}{4} \times \left(1-\frac{S_1}{L}\right)$ = $\frac{·65}{4} \times ·006$ = NIL.

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
Poop enclosed	34·00	34·00	9'-0"	✓	34·00
„ overhang	·29	·15			·15
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed... ...					
„ overhang aft ...	351·34	351·34	9'-0"	✓	351·34
„ overhang forward					
F'cle enclosed					
„ overhang					
Trunk aft					
„ forward					2·26
Tonnage opening aft ...	4·37	2·26			
„ „ forward					
Total	390·00	387·75			387·75

Standard Height of Superstructure 7·40

„ „ R.Q.D.

Deduction for complete superstructure 41·33

Percentage covered $\frac{S}{L}$ = $\frac{390·0}{390·0}$ = 100%

„ „ $\frac{S_1}{L}$ = $\frac{387·75}{390·0}$ = 99·40%

„ „ $\frac{E}{L}$ = $\frac{387·75}{390·0}$ = 99·40%

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 99·26%
(corrected for absence of forecastle (if required))

Interpolation for bridge less than ·2L (if required)

Deduction = 41·33 × ·9926 = −41·02

SHEER CORRECTION.

ACTUAL HT = 9·0
STAND " = 7·40
1·60

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	49·00	1	49·00	69·20	69·20	1	69·20
$\frac{1}{6}$L from A.P. ...	21·81	4	87·24	30·79	30·79	4	123·16
$\frac{2}{6}$L „ ...	5·39	2	10·78	7·61	7·61	2	15·22
Amidships ...	—	4	—	—	—	4	—
$\frac{2}{6}$L from F.P. ...	10·78	2	21·56	13·11	13·11	2	26·22
$\frac{1}{6}$L „ ...	43·62	4	174·48	53·04	53·04	4	212·16
F.P.	98·00	1	98·00	119·20	119·20	1	119·20
Total ...			441·06				565·16

Mean actual sheer aft / Mean standard sheer aft = excess = 19·2"

Mean actual sheer forward / Mean standard sheer forward = excess

Length of enclosed superstructure / L forward of amidships = } C.S.S.
„ „ aft of „ = }

Correction = $\frac{\text{Difference between sums of products}}{18}\left(·75-\frac{S}{2L}\right)$ = $\frac{124·1}{18} \times ·25$ = −1·72

If limited on account of midship superstructure. ✓

If limited to maximum allowance of 1½ ins. per 100 ft. ✓

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Ft.

Depth to Freeboard Deck =

Summer freeboard =

Moulded draught (d) =

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required =

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
=

TABULAR FREEBOARD corrected for Flush Deck (if required) 68.40.

Correction for coefficient

	+	−
Depth Correction	·87	—
Deduction for superstructures	—	41·02
Sheer correction	—	1·72
Round of Beam correction	—	—
Correction for Thickness of Deck amidships ...	—	—
Other corrections, scantlings, etc.	—	—
	·87	42·74

−41·87.

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 „ ... ...

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