

Amended.

Index No. 38489.
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name VANDERSTENG.	Official Number	Nationality and Port of Registry Netherlands. Den Helder.	Gross Tonnage 177.	Date of Build 1947.	Port of Survey
Moulded Dimensions: Length 38.400 m. Breadth 6.800 m. Depth 3.320 m.					Date of Survey 23.2.48.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 427.5 m³ tons					Surveyor's Signature [Signature]
Coefficient of fineness for use with Tables .68 (.58 actual) ✓					Particulars of Classification not to be classed.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 3320	(a) Where D is greater than Table depth (D-Table depth) R = 8.33(3357-3320)9.700 = +64 m/m.	Moulded Breadth (B) 6800 m/m.
Stringer plate ... 7	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{6800 \times 12}{50} = 136 \text{ m/m.}$
Sheathing on exposed deck	If restricted by superstructures ✓	Ship's Round of Beam = 120 m/m.
$T \left(\frac{L-S}{L} \right) = \frac{53(1-.4427)}{.5573} = 30$		Difference = 16 m/m.
Depth for Freeboard (D) = 3357		Restricted to ✓
		Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{16}{4} \times .5573 = +2 \text{ m/m.}$

DEDUCTION FOR SUPERSTRUCTURES.					Standard Height of Superstructure 1.830 m.
Mean Covered Length (S) m/m.	Equivalent Enclosed Length (S ₁)	Height m/m.	Height Correction	Effective Length (E)	R.Q.D. ✓
Poop enclosed ...					
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...	6100	6100	2250	✓	6100
„ overhang aft ...					
„ overhang forward ...					
File enclosed ...	10900	10900	900 +	923/1830	5497
„ overhang ...			53-30		
Trunk aft ...			for working.		
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...	17000	17000			11597

Percentage covered $\frac{S}{L} = \frac{44.27}{L}$

Percentage from Table, Line A. **15.17**
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. **✓**
(corrected for absence of forecastle (if required))

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

Deduction = **473 × .1517 = -74 m/m.**

Station	Standard Ordinate m/m.	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	574	1	574	13	13	1	13
1/2 L from A.P. ...	258	4	1020	-100	-100	4	-400
1/2 L „ ...	64	2	128	-82	-82	2	-164
Amidships ...	✓	4	✓	✓	✓	4	✓
1/2 L from F.P. ...	138	2	256	172	172	2	344
1/2 L „ ...	510	4	2040	550	550	4	2200
F.P. ...	1148	1	1148	817	817	1	817
Total ...			5166				2810

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{2356(1.75-.2213)}{18 \times .5287} = +69 \text{ m/m.}$

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

Mean actual sheer aft = **Mean standard sheer aft = } deficient.**

Mean actual sheer forward = **Mean standard sheer forward = }**

Length of enclosed superstructure forward of amidships = **.0427**

„ „ aft of „ = **nil.**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	320 m/m. ✓
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient nil.	320 m/m. ✓
Depth to Freeboard Deck = 3.380	$\Delta = 266 \text{ m}^3 \text{ (est.)}$	Depth Correction ... 64 ✓	42.2.48 24.2.48
Summer freeboard = 1.330	Tons per m ³ immersion at summer load water line	Deduction for superstructures ... 74 ✓	
Moulded draught (d) = 2.050	$T = 2.17 \text{ (est.)}$	Sheer correction ... 69 ✓	
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction ... 2 ✓	
Winter freeboard = $\frac{d \text{ m/m}}{48 \text{ inches}} = 43 \text{ m/m} = 4 \text{ cm.}$	3 cm. ✓	Correction for Thickness of Deck amidships ... 23 ✓	
Addition for Winter North Atlantic Freeboard (if required) = ✓		Other corrections, scantlings, etc. 926 ✓	
		Summer Freeboard = 1330 m/m.	

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

Tropical Fresh Water Line above Centre of Disc	not assigned.	Tropical Fresh Water Freeboard	not assigned.
Fresh Water Line	3 cm.	Fresh Water	130 cm.
Tropical Line	not assigned.	Tropical	not assigned.
Winter Line below	4 cm.	Winter	137 cm.
Winter North Atlantic Line	not assigned.	Winter North Atlantic	not assigned.