AMENDED COMPUTATION

Rpt. C.11 (Comp.).

Index No. 42651
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
~~GRONLAND~~ TRUMAN	9100	~~SWEDISH~~ NORWAY HAUGESUND ~~GRAVARNE~~	253	1905

Port of Survey GRAVARNE

Date of Survey 29.12.50

Surveyor's Signature

Particulars of Classification +100 A1 MOTOR TRAWLER

Moulded Dimensions: Length 120.00 ✓ Breadth 21.58 Depth 12.50 ✓

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

Coefficient of fineness for use with Tables Cosine · 68 ✓

DEPTH FOR FREEBOARD (D).

Moulded depth ... ... 12.50 ✓

Stringer plate ·32" ... ... ·03

Sheathing on exposed deck

$T\left(\frac{L-S}{L}\right) = \frac{26.4}{12} \times \cdot 302 =$ .07 ✓

Depth for Freeboard (D) = 12.60

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D—Table depth) R =
$\left(\frac{12.60 - 8.00}{4.60}\right) \cdot 923$ = + 4.25"

(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) 21.58' ✓

Standard Round of Beam = $\frac{B \times 12}{50}$ = 5.18" ✓

Ship's Round of Beam = 2.60

Difference 2.58 ✓

Restricted to

Correction = $\frac{\text{Diff}^{e}}{4} \times \left(1 - \frac{S_1}{L}\right)$ = $\frac{2.58}{4} \times \cdot 3328$ = + .21" ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
Poop enclosed					
„ overhang			Not used		
R.Q.D. enclosed	64.50 ✓	64.50 ✓	(12.13 ✓	1·18/3·133	24.29 ✓
„ overhang			−·84 ✓		
Bridge enclosed			=11.16 ✓		
„ overhang aft ...					
„ overhang forward ...					
F'cle ~~enclosed open~~ ...	19.25 ✓	15.63 ✓	5.07 ✓	5.07/6.0	13.21 ✓
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward ...					
Total	83.75 ✓	80.13 ✓			37.50 ✓

Standard Height of Superstructure 6.00' ✓

„ „ R.Q.D. 3.133' ✓

Deduction for complete superstructure 18.00" ✓

Percentage covered $\frac{S}{L}$ = 69.80 ✓

„ „ $\frac{S_1}{L}$ = 66.77 ✓

„ „ $\frac{E}{L}$ = 31.25 ✓

Percentage from Table, Line A. 16.06 ✓

(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 = 18.00 × ·1606 = − 2.89" ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	22.00 ✓	1	22.00 ✓	−3.15 ✓	−3.15 ✓	1	−3.15 ✓
$\frac{1}{6}$L from A.P. ...	9.79 ✓	4	39.16 ✓	−14.57 ✓	−14.57 ✓	4	−58.28 ✓
$\frac{2}{6}$L „ ...	2.42 ✓	2	4.84 ✓	−10.63 ✓	−10.63 ✓	2	−21.26 ✓
Amidships ...	✓	4	✓	✓	✓	4	✓
$\frac{2}{6}$L from F.P. ...	4.84 ✓	2	9.68 ✓	22.24 ✓	4.84 ✓	2	9.68 ✓
$\frac{1}{6}$L „ ...	19.58 ✓	4	78.32 ✓	54.50 ✓	19.58 ✓	4	78.32 ✓
F.P.	44.00 ✓	1	44.00 ✓	100.50 ✓	44.00 ✓	1	44.00 ✓
Total ...			198.00 ✓				49.31 ✓

Mean actual sheer aft / Mean standard sheer aft = Adjust ✓

Mean actual sheer forward / Mean standard sheer forward = Excess ✓

Length of enclosed superstructure / L forward of amidships = } Adjust sheers ✓

„ „ aft of „ = }

Correction = $\frac{\text{Difference between sums of products}}{18}\left(\cdot 75 - \frac{S}{2L}\right)$ = $\frac{148.69}{18}(\cdot 75 - \cdot 3490)$ ✓ = + 3.31" ✓

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 Freebroad.

	Ft.
Depth to ~~Freeboard~~ R.Q. Deck =	13.75 ✓
Summer freeboard =	2.56 ✓
Moulded draught (d) =	11.19 ✓

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.80 ✓

Addition for Winter North Atlantic Freeboard (~~if required~~) = 4.80 ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line △ =

Tons per inch immersion at summer load water line T =

Deduction = $\frac{\triangle}{40\,T}$ inches = 2.28" ✓

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~ 12.00 ✓

Correction for coefficient NIL 12.00 ✓

	+	−	
Depth Correction	4.25 ✓	✓	
Deduction for superstructures	✓	2.89 ✓	
Sheer correction	3.31 ✓	✓	
Round of Beam correction	·21 ✓	✓	
Correction for Thickness of Deck amidships ...	13.80 ✓	✓	8.1.51
AND HEIGHT OF R.Q.DK.			
Other corrections, scantlings, etc.	✓	✓	
	21.57 ✓	2.89 ✓	+ 18.68 ✓

Summer Freeboard = 30.68 ✓

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line. Wood, ~~Steel~~, R.Q.D Deck :—

Tropical Fresh Water Line	above	Centre of Disc	129 -/- ✓	Tropical Fresh Water Freeboard 651 -/- ✓
Fresh Water Line	„	„	58 -/- ✓	Fresh Water „ 722 -/- ✓
Tropical Line	„	„	71 -/- ✓	Tropical „ 709 -/- ✓
Winter Line	below	„	71 -/- ✓	Winter „ 851 -/- ✓
Winter North Atlantic Line	„	„	122 -/- ✓	Winter North Atlantic „ 902 -/- ✓

1·19 9

780 -/- ✓

2m.9.49. T.

003906-003913-0116

Grönland

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

L/10 = 12.00.

Length of forecastle = 19.25

12.00	× 1	=	12.00
7.25	× ½	=	3.63
			15.63

Trade of ship .....

Names of sister ships .....

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

Owners .....

Fee £ ..... : ..... : .....