

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name FASTNET. N. N. GREYPOINT	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 250.00 Breadth 37.00 Depth 18.25					Date of Survey 12.4.50
Moulded displacement at moulded draught = 85 per cent. of moulded depth 2680 tons					Surveyor's Signature
Coefficient of fineness for use with Tables .68 (actual .654)					Particulars of Classification

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 18.25	(a) Where D is greater than Table depth (D - Table depth) R = (18.25 - 16.67) 1.923 = + 3.10"	Moulded Breadth (B) 37.00
Stringer plate03	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 1.61	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{37 \times 12}{50} = 8.88$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = 9.25
Depth for Freeboard (D) = 18.28		Difference 0.37
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.37}{4} \times \left(1 - \frac{27}{12} \right) = -.03"$

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	158.58	147.90	7.5	<input checked="" type="checkbox"/>	147.90
„ overhang aft					
„ overhang forward	2.25	1.13			1.13
Fore enclosed	25.42	25.42	7.5	<input checked="" type="checkbox"/>	25.42
„ overhang	15.50	7.75			7.75
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	201.75	182.20			182.20

Standard Height of Superstructure	6.00
„ „ R.Q.D.	4.00
Deduction for complete superstructure	31.00
Percentage covered $\frac{S}{L} =$	80.72
„ „ $\frac{S_1}{L} =$	72.88
„ „ $\frac{E}{L} =$	66.54
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	<input checked="" type="checkbox"/>
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	<input checked="" type="checkbox"/>
Interpolation for bridge less than 2L (if required)	<input checked="" type="checkbox"/>
Deduction = $31.00 \times 66.54 =$	- 20.63

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	35.00	1	35.00	38.75	35.00	1	35.00
$\frac{1}{2}$ L from A.P.	15.575	4	62.30	16.75	15.575	4	62.30
$\frac{3}{4}$ L „	3.85	2	7.70	5.00	3.85	2	7.70
Amidships	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>
$\frac{1}{4}$ L from F.P.	7.70	2	15.40	6.50	6.50	2	13.00
$\frac{3}{4}$ L „	31.15	4	124.60	28.25	28.25	4	113.00
F.P.	70.00	1	70.00	60.00	60.00	1	60.00
Total			315.00				291.00

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{24}{18} \left(\frac{.75 - .4036}{2 \times 250} \right) = + .46"$

If limited on account of midship superstructure.

Mean actual sheer aft = **Even**

Mean standard sheer aft =

Mean actual sheer forward = **0 point**

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **0 point**

„ „ aft of „ = **0 point**

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **18.41**

Summer freeboard = **1.50**

Moulded draught (d) = **16.91**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **4.23**Addition for Winter North Atlantic Freeboard (if required) = **6 1/4"**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40 T}$ inches

=

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

	+	-
Depth Correction	3.10	
Deduction for superstructures	20.63	
Sheer correction	.46	
Round of Beam correction	.03	
Correction for Thickness of Deck amidships	1.50	
Other corrections, scantlings, etc.		
Sum	5.06	20.66

Summer Freeboard = **16.70**

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

<p>Tropical Fresh Water Line above Centre of Disc 6 1/2"</p> <p>Fresh Water Line „ „ 2 1/2"</p> <p>Tropical Line „ „ 2 1/2"</p> <p>Winter Line below „ „ 2 1/2"</p> <p>Winter North Atlantic Line „ „ 4 1/2"</p>	<p>Tropical Fresh Water Freeboard 0 1/2"</p> <p>Fresh Water „ „ 2 1/2"</p> <p>Tropical „ „ 2 1/2"</p> <p>Winter „ „ 8 1/2"</p> <p>Winter North Atlantic „ „ 10 1/2"</p>
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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.

Length of Poop = 158.58'

∴ Allowed Length of Poop = $158.58 \times .9328$
= 147.90'

$\frac{158.58}{250} = 63.43\%$

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £.....:.....:.....



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Foundation