

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

N<sup>o</sup> 34048

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>M.V. "REGISTAN"</b> <b>Doxford 720</b>	Official Number <b>180022</b>	Nationality and Port of Registry <b>BRITISH LONDON.</b>	Gross Tonnage <b>7368</b>	Date of Build <b>1944.</b>	Port of Survey <b>SUNDERLAND</b>
Moulded Dimensions: Length <b>421-10<math>\frac{1}{2}</math></b> Breadth <b>56-2<math>\frac{1}{2}</math></b> Depth <b>2<sup>ND</sup> DK. 29'-0" LIPPER DK. 38-0<math>\frac{7}{8}</math>"</b>					Date of Survey <b>DURING CONSTRUCTION.</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>16720</b> tons					Surveyor's Signature <b>Paul F.H. Duncan</b>
Coefficient of fineness for use with Tables <b>0.762</b>					Particulars of Classification <b>100 A1 With Freeboard Contemplated</b>

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... <b>38.07</b>	(a) Where D is greater than Table depth (D-Table depth) R = <b>(38.13-28.12) × 3 = + 30.03</b> <b>10.01</b>	Moulded Breadth (B) <b>56.21</b>
Stringer plate <b>70</b> ... <b>-06</b>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = <b>✓</b>	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{56.21 \times 12}{50} = \mathbf{13.49}$
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures <b>✓</b>	Ship's Round of Beam = <b>13.12</b>
Depth for Freeboard (D) = <b>38.13</b>		Difference <b>37</b>
		Restricted to <b>✓</b>
		Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{37}{4} \times \left( 1 - \frac{92.42}{L} \right) = \mathbf{+0.09}$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poep enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	<b>32.00</b>	<b>32.00</b>	<b>7.5</b>	<b>-</b>	<b>32.00</b>
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	<b>32.00</b>	<b>32.00</b>			<b>32.00</b>

Standard Height of Superstructure **7.5**

" " R.Q.D. **-**

Deduction for complete superstructure **42**

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

" "  $\frac{S_1}{L} =$  **7.58**

" "  $\frac{E}{L} =$

Percentage from Table, Line A. **3.79**  
(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 = **42 × 0.0379 = -1.59**

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.    ...    ...	52.19	1	52.19	60.06	60.06	1	60.06
$\frac{1}{8}$ L from A.P. ...	23.22	4	92.88	26.56	26.56	4	106.24
$\frac{3}{8}$ L        „        ...	5.74	2	11.48	6.56	6.56	2	13.12
Amidships    ...	—	4	—	✓	—	4	—
$\frac{5}{8}$ L from F.P. ...	11.48	2	22.96	13.50	13.50	2	27.00
$\frac{7}{8}$ L        „        ...	46.45	4	185.80	53.875	53.875	4	215.50
F.P.        ...    ...	104.37	1	104.37	120.50	120.50	1	120.50
Total        ...			469.68				542.42

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 " = **✓**

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) = \frac{72.74}{18} \left( \frac{.75 - .0379}{2L} \right) = \mathbf{-2.88}$

If limited on account of midship superstructure. **Yes. No allowance.**

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.

Depth to Freeboard Deck = **38.13**

Summer freeboard = **10.92**

Moulded draught (d) = **27.21**

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = **6.80 = 6 $\frac{3}{4}$**

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

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = \mathbf{13752}$

Tons per inch immersion at summer load water line

$T = \mathbf{48.79}$

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

= **7.05 = 7**

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient  $\frac{762 + 68}{136} = \frac{1.442}{1.36} = \mathbf{1.06}$

Depth Correction ... **30.03**

Deduction for superstructures ... **-**

Sheer correction ... **-**

Round of Beam correction ... **0.9**

Correction for Thickness of Deck amidships ... **-**

Other corrections, scantlings, etc. to compare ... **17.75**

**47.87** **1.59** **+ 46.28**

Summer Freeboard = **131.00**

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

Tropical Fresh Water Line above Centre of Disc ... **13 $\frac{3}{4}$**

Fresh Water Line " " ... **7**

Tropical Line " " ... **6 $\frac{3}{4}$**

Winter Line below " " ... **6 $\frac{3}{4}$**

Winter North Atlantic Line " " ... **✓**

Tropical Fresh Water Freeboard ... **9-9 $\frac{1}{4}$**

Fresh Water " " ... **10-4**

Tropical " " ... **10-4 $\frac{1}{4}$**

Winter " " ... **11-5 $\frac{3}{4}$**

Winter North Atlantic " " ... **✓**



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.

Displacement @ Load draft  $27'4\frac{7}{8}" = 13,752 \text{ Tons.}$

Tons per inch " " = 48.79

Keel =  $2\frac{1}{4}"$

Stringer = .70

Camber of beam upper deck  $\Phi = 1'1\frac{1}{8}"$

" " 2<sup>nd</sup> " = 3"

*Quint*

Trade of ship ☒

Names of sister ships *Same Builders yard no. 719 BROCKLEYMOOR: 718 FLORISTAN: 717 WELSH PRINCE: 716 TREVOSE.*

Builder's name and yard number *Wm Dryford & Sons Ltd yard no. 720*

Owners *STRICK LINE (1923) LTD. FRANK C. STRICK.*

Fee £ *18 : 0 : 0*

*Will be charged on 4.6.*

*Quint*



© 2020

Lloyd's Register  
Foundation