

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name ROYAL DAFFODIL	Official Number 167210	Nationality and Port of Registry British, London	Gross Tonnage 2060.15 <i>approx.</i>	Date of Build 1938-1939	Port of Survey Glasgow
Moulded Dimensions: Length 295.625 Breadth 50.0 Depth 12.5 <i>on 8'-3" Moulded draught</i>				Date of Survey While building	
Moulded displacement at moulded draught = 85 per cent. of moulded depth 2105 tons				Surveyor's Signature <i>W. J. ...</i>	
Coefficient of fineness for use with Tables .68 (Actual .469)				Particulars of Classification Lloyds A- with freeboard corresponding to a moulded draught of 8'-3" for service between London, Glasgow and Hook of Holland from May to September.	

Depth for Freeboard (D).	Depth correction.	Moulded Breadth (B)
Moulded depth 12.50	(a) Where D is greater than Table depth (D-Table depth) R =	50.0
Stringer plate024	(b) Where D is less than Table depth (if allowed) (Table depth-D)/R =	Standard Round of Beam = $\frac{B \times 12}{50} = 12''$
Sheathing on exposed deck 295.6' x 1 3/4" .15	(19.71-12.67)/2.274 = -16.01	Ship's Round of Beam = 8''
T $\left(\frac{L-S}{L}\right) =$	If restricted by superstructures. NO ALLOWANCE.	Difference 4''
Depth for Freeboard (D) = 12.64		Restricted to
		Correction = $\frac{\text{Diff}''}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{4}{4} \times 0.355 = +.03''$

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 ...	277.625	277.62	7'-6"		277.62
" overhang aft ...	18.0	7.50	7'-6"		7.50
" overhang forward ...	10.0				
F'cle enclosed ...			7'-6"		
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	287.62	285.12			285.12

Standard Height of Superstructure **6.40**

" " R.Q.D. **✓**

Deduction for complete superstructure **35.04**

Percentage covered $\frac{S}{L} = 97.30$

" " $\frac{S_1}{L} = 96.45$

" " $\frac{E}{L} = 96.45$

Percentage from Table, Line A. **✓**
(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 = **NO ALLOWANCE.**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	39.56	1		39.56	10.75	10.75	1		10.75
1/4 L from A.P. ...	17.61	4		70.44	4.00	4.00	4		16.00
1/2 L " ...	4.35	2		8.70	1.00	1.00	2		2.00
Amidships ...	-	4		-	-	-	4		-
3/4 L from F.P. ...	8.70	2		17.40	6.00	6.00	2		12.00
1/4 L " ...	35.21	4		140.84	23.00	23.00	4		92.00
F.P. ...	79.13	1		79.13	49.00	49.00	1		49.00
Total ...				356.07					181.75

Mean actual sheer aft = **Deficient**

Mean standard sheer aft

Mean actual sheer forward = **Deficient**

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **Deficient**

" " aft of " = **Sheers.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{174.32}{18} \left(\frac{75-4865}{2} \right) = +2.55''$

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

If limited to maximum allowance of 1 1/2 ins. per 100 ft. **✓**

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **12.67**

Summer freeboard = **4.42**

Moulded draught (d) = **8.25**

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

$\Delta = 1485$

Tons per inch immersion at summer load water line

T = **20.65**

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

= **1.80 = 1 3/4**

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. AND TO CORRESPOND TO A MOULDED DRAUGHT OF 8'-3" **✓**

10.65

Summer Freeboard = **53.00**

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

Tropical Fresh Water Line above Centre of Disc ...	1 3/4
Fresh Water Line " " ...	✓
Tropical Line " " ...	✓
Winter Line " " below " " ...	✓
Winter North Atlantic Line " " ...	✓

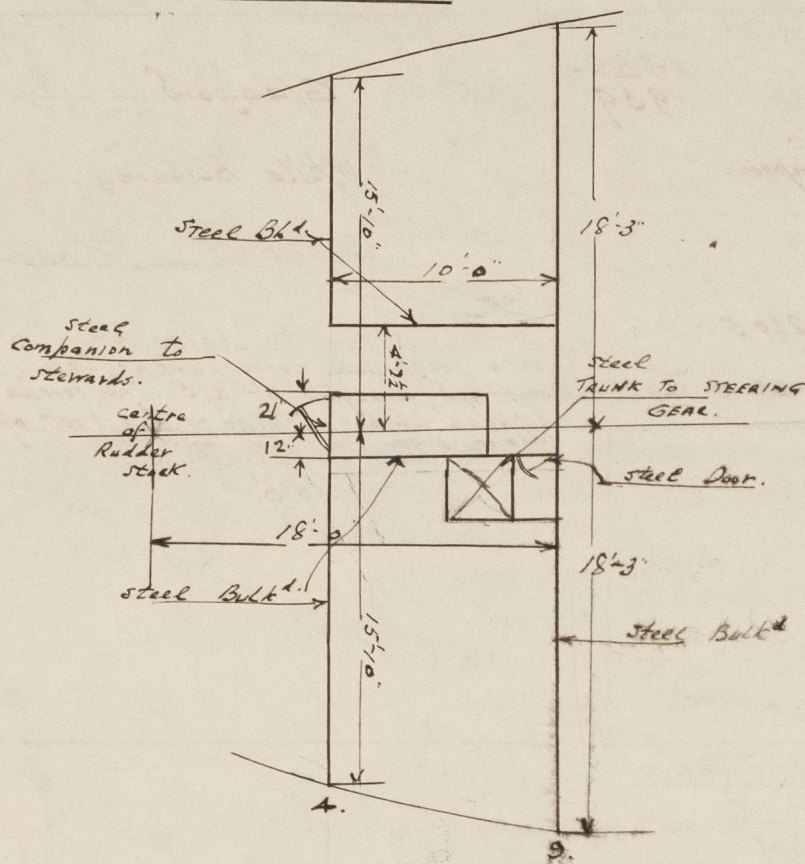
Tropical Fresh Water Freeboard ...	4'-5"
Fresh Water " " ...	4'-3 1/4"
Tropical " " ...	✓
Winter " " ...	✓
Winter North Atlantic " " ...	✓

10 JAN 1939

Royal Daffodil.

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.

Sketch showing overhang aft
on freeboard deck.



Trade of ship English Channel. Cherbourg to Hook of Holland from May to September.

Names of ^{Similar} ~~other~~ ships Royal Sovereign (not classed in L.R.).

Builder's name and yard number William Denny & Bros Ltd. Dumbarton Nº 1330.

Owners General Steam Navigation Co. Ltd London.

Fee £ 12 : 0 : 0



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