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Rpt. C.11:

Index. No. ~~149106~~
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

13 JUN 1932

Computation of Freeboard for Steamer, Sailing Ship, Tanker having RAISED QR. DECK.					Port of Survey APPLEDORE.
(Type of Superstructures.)					Date of Survey 9th June 1932.
Ship's Name "FERRIC."	Nationality and Port of Registry British Bristol.	Official Number 134697.	Gross Tonnage 191.	Date of Build 1912.	Name of Surveyor Port. Sheetham.
Moulded Dimensions: Length 116.75 Breadth 19.92 Depth 8.75					Particulars of Classification (...)
Moulded displacement at moulded draught = 85 per cent. of moulded depth 392 tons					
Coefficient of fineness for use with Tables .792					

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... 8.75	(a) Where D is greater than Table depth (D - Table depth) R = (8.75 - 7.79) .899 .99 x .899 = + .89	Moulded Breadth (B) 19.92
Stringer plate03	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = -	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{4.78}{50} = \mathbf{5'}$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures -	Ship's Round of Beam = 5'
Depth for Freeboard (D) = 8.78		Difference Excess .22
		Restricted to
		Correction = $\frac{\text{Diff}^o}{4} \times (1 - \frac{S_1}{L}) = \frac{.22}{4} (1 - \frac{.6892}{31.08})$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...						Standard Height of Superstructure 6.00
" overhang ...						" " R.Q.D. 3.11
R.Q.D. enclosed ...	36.33	36.33	3.25		36.33	Deduction for complete superstructure 17.69
" overhang ...	none					Percentage covered $\frac{S}{L} = \frac{31.08}{31.08}$
Bridge enclosed ...						" " $\frac{S_1}{L} = \frac{31.08}{31.08}$
" overhang aft ...						" " $\frac{E}{L} = \frac{31.08}{31.08}$
" overhang forward ...						Percentage from Table, Line A. 15.91
F'cle enclosed ...						(corrected for absence of forecastle (if required)) = 10.91
" overhang ...						Percentage from Table, Line B. -
Trunk aft ...						(corrected for absence of forecastle (if required)) = -
" forward ...						Interpolation for bridge less than .2L (if required) = -
Tonnage opening aft ...						Deduction = 17.69 x .1091 = 1.93
" forward ...						
Total ...	36.33	36.33			36.33	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	21.69	1		21.69	17.50	17.50	1		17.50	Mean actual sheer aft = Deficient
1/4 L from A.P. ...	9.65	4		38.60	7.11	7.11	4		28.44	Mean actual sheer forward = Deficient
3/8 L " ...	2.39	2		4.78	1.77	1.77	2		3.54	Mean standard sheer forward
Amidships ...	-	4		-	-	-	4		-	Length of enclosed superstructure forward of amidships = ✓
3/8 L from F.P. ...	4.77	2		9.54	3.95	3.95	2		7.90	" aft of " = ✓
1/4 L " ...	19.31	4		77.24	15.80	15.80	4		63.20	
F.P. ...	43.38	1		43.38	31.00	31.00	1		31.00	
Total ...				195.23					151.58	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \text{Deficient } \frac{43.65}{18} \left(.75 - \frac{.5946}{155.4} \right) = + 1.44$

If limited on account of midship superstructure. **-** If limited to maximum allowance of 1 1/2 ins. per 100 ft. **-**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	11.69
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.68 + .792}{1.36} = \frac{1.472}{1.36}$	12.65
Depth to Freeboard Deck = 8.78	$\Delta = 4.10$	Depth Correction ...	89
Summer freeboard = 1.08	Tons per inch immersion at summer load water line	Deduction for superstructures ...	1.93
Moulded draught (d) = 7.70	T = 5.00	Sheer correction ...	1.44
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 1.92 = 2"	Deduction = $\frac{\Delta}{40 T}$ inches = 2.05 = 2"	Round of Beam correction04
Addition for Winter North Atlantic Freeboard (if required) = -		Correction for Thickness of Deck amidships ...	-
		Other corrections, scantlings, etc. ...	-
		2.33 1.97 + .36	
		Summer Freeboard = 13.01	

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

Tropical Fresh Water Line above Centre of Disc4	Tropical Fresh Water Freeboard ...	9"
Fresh Water Line " "2	Fresh Water " " ...	11"
Tropical Line " "2	Tropical " " ...	1-3"
Winter Line below " "2	Winter " " ...	1-3"
Winter North Atlantic Line " " ...	-	Winter North Atlantic " " ...	-

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
FBD. DK. → SUP. DK.									
Description of Hatchway			No. 1.				R.Q. DK. 1 P. 15.	R.Q. DK. A.P. TANK.	
Dimensions of Hatchway			49'-6" x 14'-0"				3'-2" x 1'-8"	1'-3" x 1'-3"	
COAMINGS	{	Height above Deck	30' ✓				12' ✓	12' ✓	
		Thickness	{	Sides	.44 ✓		.35 ✓	.35 ✓	
				Ends	.40 ✓		.35 ✓	.35 ✓	
		Stiffeners	none.					none.	none.
Brackets, Stays			2 P. 25. ✓				none.	none.	
HATCH BEAMS	{	Number	9						
		Spacing	See sketch on back of rept.						
		Scantling and Sketch	"B" 2 in No. portable.						
		Bearing Surface	"A" 4 in No. { 7x3x.40 B. Ang. } 3x3x.40 Ang. } "D" 1 in No. { 8x3x.40 B. Ang. } 3x3x.40 Ang. } 3" } "C" 2 in No. fixed.						
FORE AND AFTERS	{	Number							
		Spacing							
		Unsupported Lengths							
		Scantling* and Sketch	None.						
HATCH COVERS	{	Material	W. Pine				W. Pine.	W.T. per	
		Thickness	3" ✓				3" ✓	Cover	
		How fitted	B. & A.				B. & A. ✓	Bolted.	
		Bearing Surface	24'-3'-6" ✓				24' ✓	None.	
Spacing of Cleats			24" ✓				24" ✓	None.	
Number of Tarpaulins			2 ✓				2 ✓	None.	
*Are wood fore and afters steel shod at all bearing surfaces? ✓									
Are battens and wedges efficient and in good condition? Yes. ✓									
Are tarpaulins in good condition and in accordance with rule requirements? Yes. ✓									
Are lashings provided in accordance with rule requirements? Yes. ✓									

Particulars of fiddley, funnel and ventilator coamings:—

Stakehold gratings covered by strong steel hinged covers. ✓
Fidley, funnel, and Ventilator Cowlings in efficient condition. ✓
Engine Skylight of steel strongly constructed. ✓

Particulars of Flush Bunker Scuttles:—

None.

Particulars of Companionways :—

1. forward to crew's quarters $3\text{'}-3\text{'}$ \times $2\text{'}-6\text{'}$ \times $1\text{'}-8\text{'}$ high. Sill height of Coaming, 17".
Top wood $1\frac{1}{2}$ " thick hinged, and worked both Sides.
1. to Machy. space $2\text{'}-0\text{'}$ \times $2\text{'}-6\text{'}$ on casing top Port. (flush) hinged Steel Cover worked both Sides. Sill height of casing, 27".
1. to After Accom^{du} on casing top, of wood. $3\text{'}-0\text{'}$ \times $3\text{'}-4\text{'}$. Wood Sliding top $1\frac{1}{2}$ ". " " " " "

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :—

Tors in exposed positions on freeboard and superstructure decks:—									
1. forward	to hold	9" dia.	2-3/4" x .40 Coang.	Wood plug and Canvas Cover.					
1. "	"	accom ^d 6 "	" " " " "	" " " "	"	"	"	"	✓
1. aft	to hold	9 "	" " " " "	" " " "	"	"	"	"	✓

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :—

1. to J.P. Tank 1 1/2 dia. flush with deck & screw cap. ✓
1. " A.P. " (Screw plug in W.T. hatch Cover pl.). ✓

Particulars of Gangway Cargo and Coaling Ports:—

None. ✓

Particulars of Scuppers and Sanitary Discharge Pipes:—

S. from Hld. Dk. through Bulwark and Str. Ang. P. & S. ✓
1. " R.Q. " " " " " " " " ✓

Particulars of Side Scuttles:—

None. ✓

Particulars of Guard Rails:—

None. ✓

Steel bulwarks extending from Stem to Stem.
Efficiently Constructed and Supported. ✓

Particulars of Gangways, Lifelines, etc.:—

Efficient lifelines for the protection of the crew provided
on the freeboard deck, port & starboard.
None. ✓

Particulars of Freeing Arrangements.

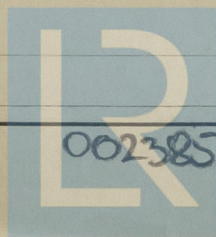
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
R.Q. Dk.	36.33 and around Stern. ✓	2'-0"	{ 2@ 1.83 x 1.0 ✓ 1@ 4.08 x .68 2@ 2.66 x .68 }	2 5 ✓	3.66 10.0 ✓	10.13
Forward Well	80.42	3'-0" ✓	2.25 x 1.66 ✓	5. ✓	18.67 ✓	16.11 ✓
State position of each freeing port (F. and A. position and height above deck edge) } After Well (R.Q. Dk.) 11'-0", 11'-9" crs. measd. from R.Q. Dk. Plhd. Sill 3' above dkt. Forward Well:— 4'-9", 10'-3", 12'-0", 11'-6", 10'-4" crs. measd. from R.Q. Dk. Plhd. Sill 7' above dkt.						
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— Shutters hinged midways ✓						
Additional area where sheer is less than standard.						

Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
Raised Quarter Deck Bulkhead	None ✓	.30 ✓	3 x 2 1/2 x .30 ✓	30" ✓	None.	None.	None.	✓
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead								
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard Raised Quarter Deck	27" x .30 ✓	.30 ✓	2 1/2 x 2 1/2 x .25 ✓	30" ✓	Bracketed to casing top ✓	On casing top 2'-0" x 12'-6" is machy. space.	27" ✓	27" ✓
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships								

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

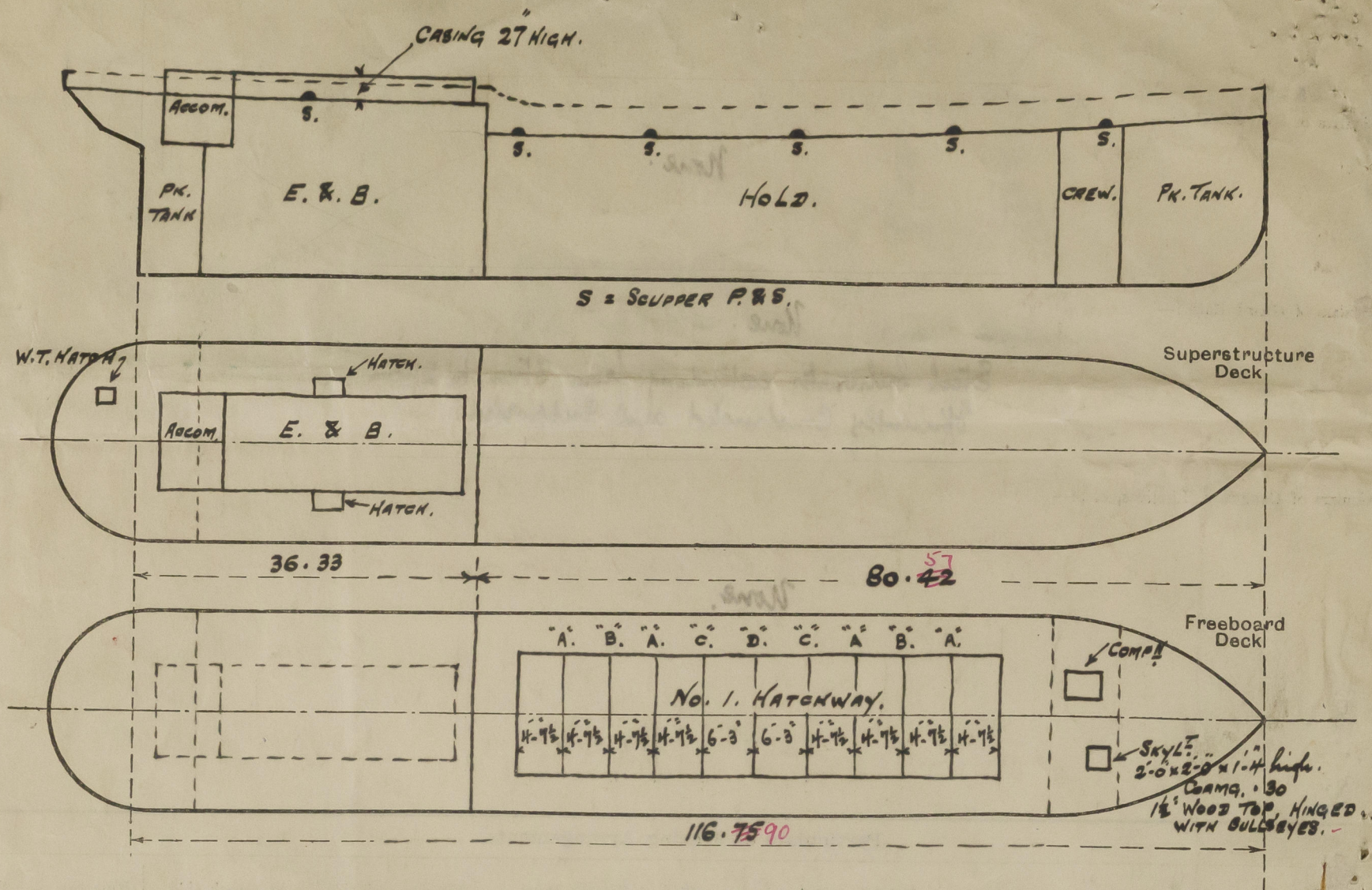
Poop Bulkhead	
Raised Quarter Deck Bulkhead	None. (No openings.) ✓
Bridge, After Bulkhead	
Bridge, Forward Bulkhead	
Forecastle Bulkhead	
Exposed Machinery Casings on Freeboard Raised Quarter Deck	Hinged Steel per. Cover. Worked both sides. (Entrance to Machy. Space. See opposite page under Companionways.) ✓
Exposed Machinery Casings on Superstructure Decks	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	
Deckhouses on Flush Deck Ships	



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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

This Vessel has been measured in dry dock,
And is under survey for 2nd S.S. No. 3 with
a view of reinstatement of the Society's Class.
"For Bristol Channel Service".

Builder's name and yard number

Names of sister ships

Owners

Osborn & Wallis Ltd.

Fee £

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