

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

8 JUN 1932

Computation of Freeboard for Steamer, ~~Sailing Ship, Tug~~
having *Forecastle & Poop*

Port of Survey *Stratford-upon-Avon*

Date of Survey *26 May 1932*

Name of Surveyor *E. A. Dryden Tug*

Particulars of Classification *H100 A1*

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
<i>Kerithworth Castle</i>	<i>British London</i>	<i>118433</i>	<i>12975</i>	<i>1906-5</i>

Moulded Dimensions: Length Breadth Depth

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

Coefficient of fineness for use with Tables

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Plating on exposed deck $T \left(\frac{L-S}{L} \right) =$	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Depth for Freeboard (D) =	If restricted by superstructures	Ship's Round of Beam =
		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...			<i>8.3</i>		
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward					
F'cle enclosed <i>open</i> ...			<i>8.3</i>		
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward					
Total ...					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

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

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

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

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 =

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1				1	
L from A.P. ...		4				4	
L " ...		2				2	
amidships ...		4				4	
L from F.P. ...		2				2	
L " ...		4				4	
A.P. ...		1				1	
Total ...							

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

" " aft of " =

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

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 Freeboard.

Depth to Freeboard Deck = Ft.

Summer freeboard =

Moulded draught (d) =

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

$\Delta =$

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. ...	...

+	-

Summer Freeboard =

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

Tropical Fresh Water Line above Centre of Disc ...	...
Fresh Water Line " " ...	...
Tropical Line " " ...	...
Winter Line below " " ...	...
Winter North Atlantic Line " " ...	...

Tropical Fresh Water Freeboard
Fresh Water " "
Tropical " "
Winter " "
Winter North Atlantic " "

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	NO 1 Fore castle	NO 2 Forward bulkhead	NO 3 Main bulkhead	NO 4 Aft bulkhead	Baggage hold M. 3 x 4	F.P. hold M. 3 x 6			
Dimensions of Hatchway	10' x 8'	10' x 15'	12' x 14'	10' x 12'	5' x 11'				
COAMINGS	Height above Deck	24"	20"	20"	20"	15"			
	Thickness	1/4"	1/4"	1/4"	1/4"	1/4"			
	Sides								
	Stiffeners								
HATCH BEAMS	Number	7	7	7	7	7			
	Spacing	6"	6"	6"	6"	6"			
	Scantling and Sketch	2" x 12"	2" x 12"	2" x 12"	2" x 12"	2" x 12"			
	Bearing Surface	5"	5"	5"	5"	5"			
FORE AND AFTERS	Number	1	3	3	3				
	Spacing	11"	11"	11"	11"				
	Unsupported Lengths								
	Scantling and Sketch	2" x 12"	2" x 12"	2" x 12"	2" x 12"				
HATCH COVERS	Material	Slit Plate	Wood	Wood	Wood	Wood			
	Thickness	3/4"	3/4"	3/4"	3/4"	3/4"			
	How fitted	Secured by bolts	Secured by bolts	Secured by bolts	Secured by bolts	Secured by bolts			
	Bearing Surface	5"	5"	5"	5"	5"			
Spacing of Cleats	2'	3'	4'	2'	2'	12"			
Number of Tarpaulins	2	3	3	3	3	2			

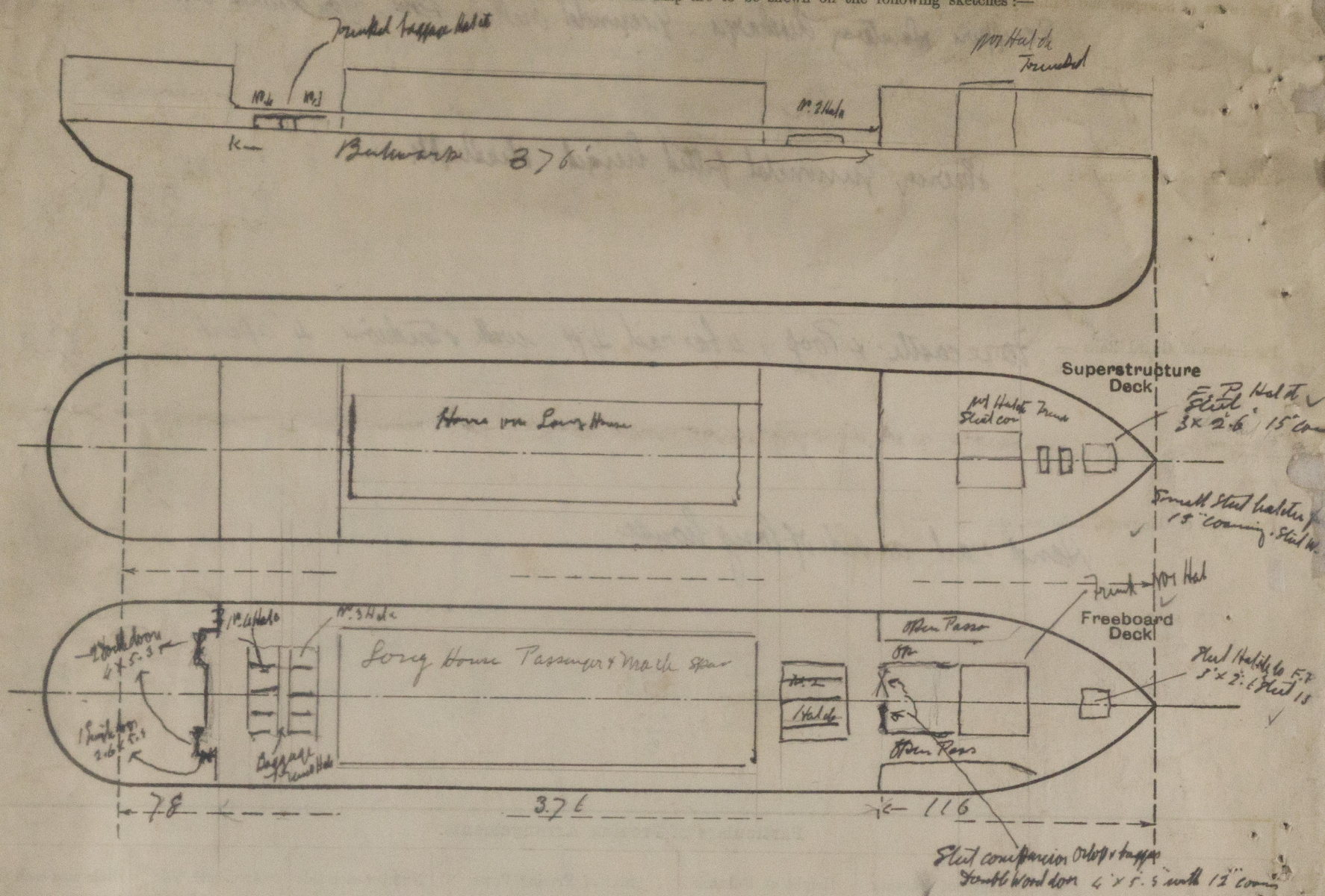
Particulars of fiddle, funnel and ventilator coamings:
 Fiddle, funnel, strong casing, 1' above best deck. Fittings protected by steel bulkheads 2' 6" high.
 Ventilator coamings of strong construction.
 Engine room skylight, steel, strongly constructed. Wood flaps.

Particulars of Flush Bunker Scuttles:— 4 aside, 2 ft diam, strong C.I. covers with locking bar & bolt.

Particulars of Companionways:— Fore castle to Orlop Deck. Strong steel casing 2 doors (Teak) 4' x 5' 3" - 12" sill.

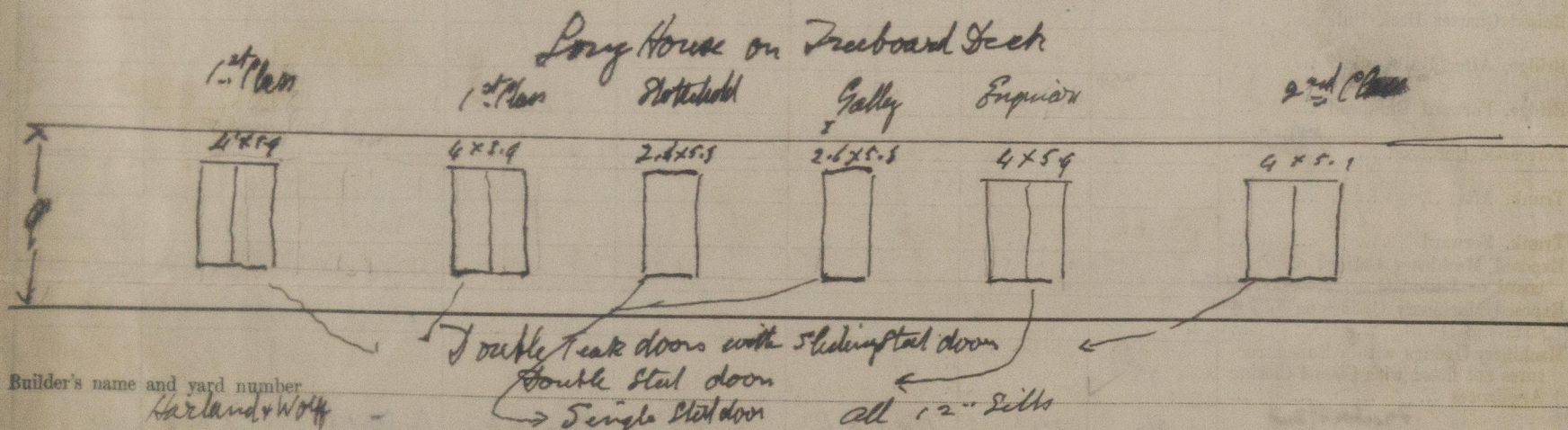
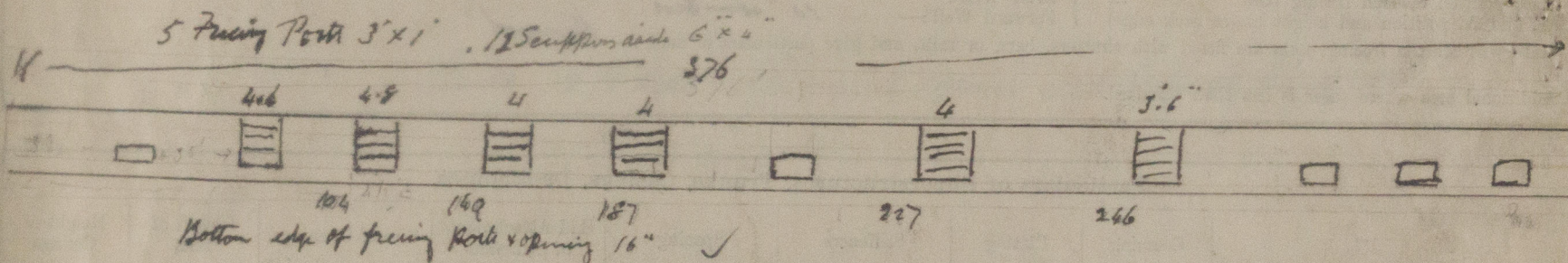
Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—
 Fore castle 3 ft 10" diam, 1/2" casing 1/2" thick. 2 of 15" diam 2" casing 1/2" thick. 1 of 13" diam 2" casing 1/2" thick. 1 of 11" diam 2" casing 1/2" thick. 1 of 9" diam 2" casing 1/2" thick. 1 of 7" diam 2" casing 1/2" thick. 1 of 5" diam 2" casing 1/2" thick. 1 of 3" diam 2" casing 1/2" thick. 1 of 1" diam 2" casing 1/2" thick. 1 of 1/2" diam 2" casing 1/2" thick. 1 of 1/4" diam 2" casing 1/2" thick. 1 of 1/8" diam 2" casing 1/2" thick. 1 of 1/16" diam 2" casing 1/2" thick. 1 of 1/32" diam 2" casing 1/2" thick. 1 of 1/64" diam 2" casing 1/2" thick. 1 of 1/128" diam 2" casing 1/2" thick. 1 of 1/256" diam 2" casing 1/2" thick. 1 of 1/512" diam 2" casing 1/2" thick. 1 of 1/1024" diam 2" casing 1/2" thick. 1 of 1/2048" diam 2" casing 1/2" thick. 1 of 1/4096" diam 2" casing 1/2" thick. 1 of 1/8192" diam 2" casing 1/2" thick. 1 of 1/16384" diam 2" casing 1/2" thick. 1 of 1/32768" diam 2" casing 1/2" thick. 1 of 1/65536" diam 2" casing 1/2" thick. 1 of 1/131072" diam 2" casing 1/2" thick. 1 of 1/262144" diam 2" casing 1/2" thick. 1 of 1/524288" diam 2" casing 1/2" thick. 1 of 1/1048576" diam 2" casing 1/2" thick. 1 of 1/2097152" diam 2" casing 1/2" thick. 1 of 1/4194304" diam 2" casing 1/2" thick. 1 of 1/8388608" diam 2" casing 1/2" thick. 1 of 1/16777216" diam 2" casing 1/2" thick. 1 of 1/33554432" diam 2" casing 1/2" thick. 1 of 1/67108864" diam 2" casing 1/2" thick. 1 of 1/134217728" diam 2" casing 1/2" thick. 1 of 1/268435456" diam 2" casing 1/2" thick. 1 of 1/536870912" diam 2" casing 1/2" thick. 1 of 1/1073741824" diam 2" casing 1/2" thick. 1 of 1/2147483648" diam 2" casing 1/2" thick. 1 of 1/4294967296" diam 2" casing 1/2" thick. 1 of 1/8589934592" diam 2" casing 1/2" thick. 1 of 1/17179869184" diam 2" casing 1/2" thick. 1 of 1/34359738368" diam 2" casing 1/2" thick. 1 of 1/68719476736" diam 2" casing 1/2" thick. 1 of 1/137438953472" diam 2" casing 1/2" thick. 1 of 1/274877906944" diam 2" casing 1/2" thick. 1 of 1/549755813888" diam 2" casing 1/2" thick. 1 of 1/1099511627776" diam 2" casing 1/2" thick. 1 of 1/2199023255552" diam 2" casing 1/2" thick. 1 of 1/4398046511104" diam 2" casing 1/2" thick. 1 of 1/8796093022208" diam 2" casing 1/2" thick. 1 of 1/17592186044416" diam 2" casing 1/2" thick. 1 of 1/35184372088832" diam 2" casing 1/2" thick. 1 of 1/70368744177664" diam 2" casing 1/2" thick. 1 of 1/140737488355328" diam 2" casing 1/2" thick. 1 of 1/281474976710656" diam 2" casing 1/2" thick. 1 of 1/562949953421312" diam 2" casing 1/2" thick. 1 of 1/1125899906842624" diam 2" casing 1/2" thick. 1 of 1/2251799813685248" diam 2" casing 1/2" thick. 1 of 1/4503599627370496" diam 2" casing 1/2" thick. 1 of 1/9007199254740992" diam 2" casing 1/2" thick. 1 of 1/18014398509481984" diam 2" casing 1/2" thick. 1 of 1/36028797018963968" diam 2" casing 1/2" thick. 1 of 1/72057594037927936" diam 2" casing 1/2" thick. 1 of 1/144115188075855872" diam 2" casing 1/2" thick. 1 of 1/288230376151711744" diam 2" casing 1/2" thick. 1 of 1/576460752303423488" 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1/6129982163463555433433388108601236737830399688734408704" diam 2" casing 1/2" thick. 1 of 1/12259964326927110866866776217202473475660799377468817408" diam 2" casing 1/2" thick. 1 of 1/24519928653854221733733552434404946951321598754937634816" diam 2" casing 1/2" thick. 1 of 1/49039857307708443467467104868809893902643197509875269632" diam 2" casing 1/2" thick. 1 of 1/98079714615416886934934209737619787805286395019750539264" diam 2" casing 1/2" thick. 1 of 1/196159429230833773869868419475239575610572790039501078528" diam 2" casing 1/2" thick. 1 of 1/392318858461667547739736838950479151221145580079002157056" diam 2" casing 1/2" thick. 1 of 1/784637716923335095479473677900958302442291160158004314112" diam 2" casing 1/2" thick. 1 of 1/1569275433846670190958947355801916604884582320316008628224" diam 2" casing 1/2" thick. 1 of 1/3138550867693340381917894711603833209769164640632017256448" diam 2" casing 1/2" thick. 1 of 1/6277101735386680763835789423207666419538329281264034512896" diam 2" casing 1/2" thick. 1 of 1/12554203470773361527671578846415332839076658562528069025792" diam 2" casing 1/2" thick. 1 of 1/25108406941546723055343157692830665678153317125056138051584" diam 2" casing 1/2" thick. 1 of 1/50216813883093446110686315385661331356306634250112276103168" diam 2" casing 1/2" thick. 1 of 1/100433627766186892221372630771322662712613268500224552206336" diam 2" casing 1/2" thick. 1 of 1/200867255532373784442745261542645325425226537000449104412672" diam 2" casing 1/2" thick. 1 of 1/401734511064747568885490523085290650850453074000898208825344" diam 2" casing 1/2" thick. 1 of 1/803469022129495137770981046170581301700906148001796417650688" diam 2" casing 1/2" thick. 1 of 1/1606938044258990275541962092341162603401812296003592835301376" diam 2" casing 1/2" thick. 1 of 1/3213876088517980551083924184682325206803624592007185670602752" diam 2" casing 1/2" thick. 1 of 1/6427752177035961102167848369364650413607249184014371341205504" diam 2" casing 1/2" thick. 1 of 1/12855504354071922204335696738729300827214498368028742682411008" diam 2" casing 1/2" thick. 1 of 1/25711008708143844408671393477458601654428996736057485364822016" diam 2" casing 1/

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:—

Vessel examined in Dry Dock.



Builder's name and yard number
Harland & Wolff

Names of sister ships

Owners
Union Castle Mail S.S. Co. Ltd.

Fee £ *17* : - -

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