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Lloyd's Register of British & Foreign Shipping.

SURVEYS FOR FREEBOARD.-STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey Newcastle
Date of Survey 14th April 1916
Name of Surveyor E. J. Milton

Ship's Name. S.S. Sanfield
Port of Registry and Nationality. British London
Official Number. 137816
Gross Tonnage. 4235.41
Date of Build. How
Particulars of Classification. + 100 A. 1. Class Contemplated

Registered dimensions from Ship's Register.	LENGTH. <u>385.2</u>	BREADTH. <u>52.95</u>	DEPTH. <u>26.25</u>	UNDER DECK TONNAGE. <u>4235.41</u>
Length on LOADLINE.	<u>385.2</u>	Frame Depth Rule <u>6</u> Ceiling + 2 ✓ Sheer + 1.1 ✓ 6x2 = -1.0 ✓		Peak Tanks
CORRECTED DIMENSIONS.	<u>385.2</u>	52.95 <u>51.95</u>	<u>27.55</u>	<u>4235.41</u>

Moulded Depth as measured..... 28-9
 Keel depth .98
 a deck .62
 v. 80
 Wood dk less at top - 3 1/2 ✓
28.5 1/2

NOTE - If the depth is measured when vessel is afloat, the details of measurement should be reported.

Co-efficient of fineness..... 768 ✓
 Any modification necessary [Para. 4 (a) to (e)]* } .02 cell J's
 Co-efficient as corrected 748 ✓
.75 say .75

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<u>385.2</u> ✓
Length in Table	<u>341.5</u> ✓
Difference	<u>43.7</u> ✓
Correction for 10ft., Table A.	<u>1.5</u> ✓
× Difference divided by 10	<u>6.55</u> ✓
If 1/10th length covered divide by 2 = + 6 1/2 ×	<u>3.06</u> ✓
	<u>+ 3</u> ✓

{ Stem..... 105 }
 Sternpost ... 69 } $174 \div 2 = 87$... Mean 26 | 39.65
 the length from { Stem 59 }
 Sternpost 38 } $97 \div 2 = 48.5$... Mean
 Sheer 88.18 } $87.59 \times = 55 = 88.18$
 or [Table, Para. 18] 48.52 × Correction
 Difference..... 39.07 ÷ 4 = 9.76 ×
 (f)..... - 9 3/4 ×

CORRECTION FOR IRON DECK.
 Proportion covered, if less than 1/10th length covered Allowed in moulded depth
 Thickness of usual wood deck, less stringer

At after end of forecastle
 ÷ 2 =
 Correction

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<u>50.66</u> ×
Round of Beam	<u>12 1/2</u> ✓
Normal round.....	<u>12 1/2</u> ×
Difference	÷ 2 =
Proportion of Deck uncovered (Para. 19)	

ALLOWANCE FOR DECK ERECTIONS :-

Table C.....	<u>3 - 8.83</u> ✓
Correction for Length, if required (Para. 12, 13, and 14)	<u>3.06</u> ✓
by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14)	<u>3.78</u> ✓
ance	<u>2 - 4.23</u> ✓
ntage as below.....	<u>24.01</u> ✓
ction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)	<u>7.50</u> ✓
ance for Deck Erections	<u>7.50</u> ✓

Freeboard, Table A	<u>6 - 10.33</u> ✓	<u>6.10 3/4</u> ✓
Correction for Sheer	<u>9.46</u> ✓	<u>- 9 3/4</u> ✓
Correction for Length	<u>6 - 0.54</u> ✓	<u>6.08 1/2</u> ✓
Allowance for Deck Erections	<u>6.55</u> ✓	<u>+ 6 1/2</u> ✓
Correction for Round of Beam.....	<u>6 - 4.12</u> ✓	<u>6.7 1/2</u> ✓
Correction for fall in Sheer (if any).....	<u>7.50</u> ✓	<u>- 8 1/2</u> ✓
Correction for Iron Deck (if required) <u>allowed in held depth</u>	<u>5 - 11.62</u> ✓	<u>5 - 11 1/2</u> ✓
Additions for non-compliance with provisions of Para. 11 (d) and (e) †		
Other Corrections (if any)		

Length.	Length allowed.	Height.
Forecastle.....	<u>30.8</u> ✓	<u>7-0</u> ✓
Bridge House	<u>91.0</u> ✓	<u>7-0</u> ✓
Raised Qr. Dk.....		
Poop.....	<u>26.4</u> ✓	<u>7-0</u> ✓
Total	<u>148.00</u> ✓	<u>3842</u> ×
Length of Ship	<u>385.2</u> ✓	
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>24.01</u> ×	

Winter Freeboard	<u>5 - 11.62</u> ✓	<u>5 - 11 1/2</u> ✓
Summer Freeboard	<u>5 - 10.70</u> ✓	<u>5 - 8 1/2</u> ✓
Indian Summer Freeboard		<u>5 - 8 1/2</u> ✓
N. A. Winter Freeboard		
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or iron deck with side. }		<u>2</u> ✓
Winter Freeboard from deck line		<u>6 - 2 1/2</u> ✓
Summer " " "		<u>5 - 8 1/2</u> ✓
Indian Summer " " "		<u>5 - 8 1/2</u> ✓
N. A. Winter " " "		

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck :-

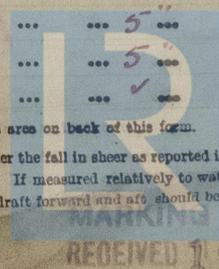
Fresh Water Line above centre of Disc	
Indian Summer Line " " "	
Winter Line below " " "	
Winter North Atlantic Line " " "	

18.4.16

Winter Freeboard from deck line 5 - 8 1/2 ✓
 Summer " " " 5 1/2 ✓
 Indian Summer " " " 5 ✓
 N. A. Winter " " " 5 ✓

† If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
 ‡ In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the B.Q.D. is to be taken from the level of the top of the amidship beam.
 § In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and stern.
 ¶ In vessels having poops and forecastles, it means the sheer measured at points distant 1/10th of the vessel's length from stem and stern-post.

† State dimensions of freeing port area on back of this form.
 ‡ The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.



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 (P.T.O.)

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Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *Yes* Bridge House? *Yes* Forecastle? *Yes*
 To what height do the Reverse Frames extend? *Bulwark frames*
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes*
 Give particulars of the means for closing the openings in Bulkhead *Hinged wood doors*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *No* Has the Bridge House an efficient Bulkhead at the fore end? *Yes*
 Give particulars of the means for closing the openings in Bulkhead *No openings*
 What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.44*
 Give scantlings and spacing of the Stiffeners *8x36x40 Bulwarks spaced 30"*
 Are bracket plates fitted at each end of the Stiffeners? *Yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *Yes*
 Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*
 How are the openings closed? *Storm boards in riveted channels full height openings*
 Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *Yes*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Covered by a bridgehouse*
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed?
 Give thickness of plating; scantlings and spacing of Stiffeners *26 8.30 Coaming 3/8 Stiffeners 4x3x40 spaced 36 & 47 1/2"*
 What is the height of the exposed Casings? *7* Are suitable means provided for closing all openings in them in bad weather? *Yes*
 Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? *Yes* Give particulars below:—

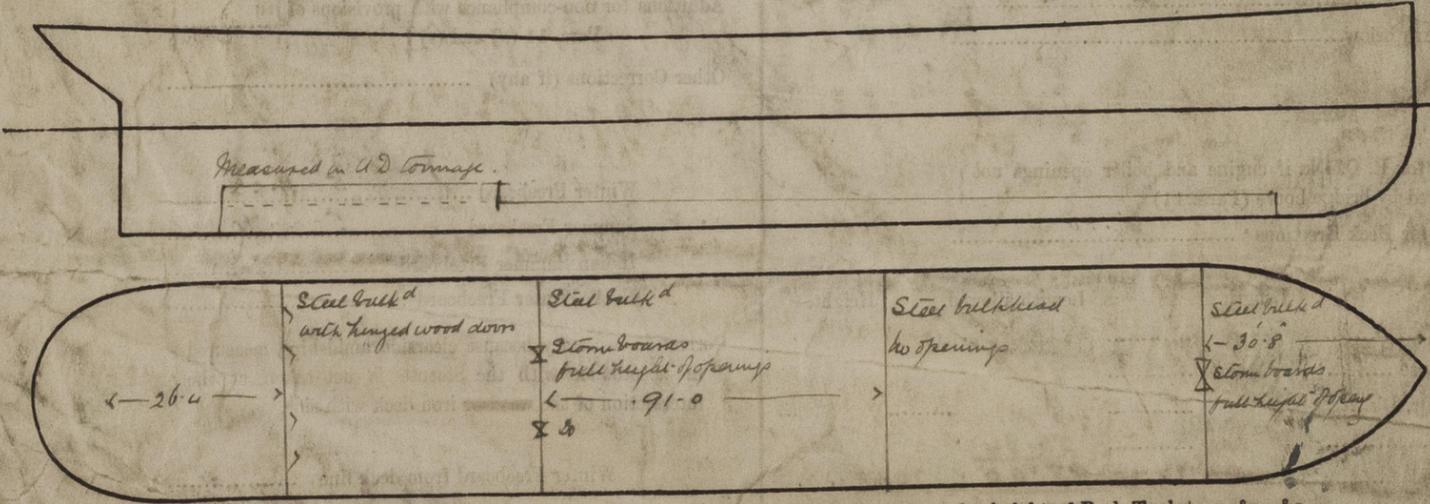
Position and Size.	No. 1 39.0 x 28.0 A 8 23.6 F		No. 2 39.0 x 28.0		No. 3 13.2 x 15.0		No. 4 43.4 x 28.0		No. 5 41.2 x 28.0 F 92.0 A	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	30"	30"		30"		42		42	
	Thickness {	Sides.....	.64	.84	.40		.50		.52	
		Ends.....	.40	.40	.36		.40		.40	
SHIFTING BEAMS OR WEB PLATES.	Number	4	4	2	8		8		8	
	Section and Scantlings	4x3x40 33x27x36	4x3x40 35x29x36	4x3x40 22x16x34	4x3x40 35x29x36		4x3x40 35x29x36		4x3x40 33x27x36	
	Material	6" flange steel	6" flange steel	6" flange steel	6" flange steel		6" flange steel		6" flange steel	
* FORE AND AFTERS.	Number									
	Section and Scantlings	None								
	Material									
HATCHES Thickness	3"									
Remarks.....	Fitted fore and aft.									

* When the Fore and Afters are of wood the depth should be stated from the underside of the hatches.
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) under Shelter Deck Rules.
 What is the thickness of the Bridge Sheerstrake? _____ Strake between Main and Bridge Sheerstrakes? _____

Delete the words { The Crew ~~are~~, are not, berthed in the bridge house.
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks in well _____
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = _____ Sq. ft.
 Ft. Tenths. Ft. Tenths. No. } Freeing Ports = _____ Sq. ft.
 (each side of vessel)
 Total deficiency or excess = _____ Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel. *This report refers to vessel The Northumberland No. 227*
The appended plans of which are enclosed and Reg. 9 attached

Owners _____
 Address _____
 Fee £ _____ Received by me _____

