11b. Verification EXT Rot. 13/9/3 20 FEB 1928 Index No. 3264 (For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

No 29642

CORRWRITTEN

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 Sunderland (whilst building &c.)
Date of Survey Feby 18th 1928
Name of Surveyor W. P. Collings

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
FORTHBRIDGE	W. Hartlepool British			1928	✠ 100 A1. (Contemplated)

Number in Register Book

Registered dimensions from	Length.	Breadth.	Depth.	Under Deck Tonnage.
	390·0	54·8	27·75	4772
	390·0	Frame Depth 14½ (average) Rule " 6 2 × 8½ = −1·33·42 Spar ceiling fitted.	Ceiling +·20 (no) Sheer +9·4 Tank top level.	Peak Tanks } Incl.
	390·0	53·49 ·38	28·89	4772

Moulded Depth as measured ..... 30'-2"

Addition for Keel below base line for draught record ..... 2¼ inches.

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

Correction for Length.

Length of Ship on Loadline	390·0
Length in Table	362·0
Difference	28·0
Correction for 10ft., Table A.	1·5
× Difference divided by 10	4·20
If $\frac{6}{10}$ths length covered divide by 2	2·1 = +2"

Table C. (if required.)

Correction for Iron Deck.

Proportion covered, if less than $\frac{7}{10}$ths length covered	·80596
Thickness of usual wood deck, less stringer	3½ − 3½"

Correction for Round of Beam.

NOTE.—The round of beam should be reported on the full breadth of vessel at the gunwale.

Breadth at Gunwale amidships	54·54
Round of Beam	13·6
Normal round	13·63
Difference ÷ 2 =	
Proportion of Deck uncovered (Para. 19)	

fineness ..... ~~·768~~ ·793
on necessary to (e)]* ..... ~~02~~ OB
corrected ..... ~~·768~~ ·77

36 | 33·94 ·94

..... 114 } 167·25 ÷ 2 = 83·625 Mean
ost ... 53·25 }

he length from { Stem 62 / Sternpost 29·25 } 91·25 ÷ 2 = 45·62 Mean ÷ 55% = 82·94

Sheer ..... 82·94

Sheer [Table, Para. 18] ..... 49·00 Correction

Difference ..... 33·94 ÷ 4 = 8·48

Para. 18 (f) ..... − 8½"

s { At front of bridge house ..... ✓
{ At after end of forecastle .....

{ ÷ 2 =
ed ..... Correction ✓

Allowance for Deck Erections :—

C ..... 4'-5½"
ngth, if required (Para. 12, 13, and 14) ..... ✓

ble A. corrected for sheer, ~~and for length~~, required (Para. 12, ~~13, and 14~~) ..... 6'-11"

..... 4-5½ / 2·1/4 = 2'-5½"

w ..... 4-7·3/4 / 3 = 60·59·6%

60·59 × 29·5 / 100 = 4-4¼ / 6 = 3-10¼ = 14·87

Q. Dk. if engine and boiler openings not ridge house (Para. 11) } —

Erections ..... − 1'-3¼"

	Length.	Length allowed.	Height.
....	27'-9½	27·79	4'-6
...	254-1	254·08	4'-6
...	—	.....	...
...	32·5½	32·46	4'-6
	.....	314·33 / 390·00 =	·8059 6
	.....		

ntage } 60·59·6% ✓
or 11) }

Correction for Round of Beam.

Correction for fall in Sheer (if any) .....

Correction for Steel Deck (if required) ..... − 3½"

Additions for non-compliance with provisions of Para. 11 (d) and (e) ‡ .....

Other Corrections (if any) .....

Freeboard, Table A	7'-7½"
Correction for Sheer	− 8½"
	6'-11"
Correction for Length	+ 2"
	7'-1"
Allowance for Deck Erections	− 1'-5¾"
	5'-7¼"
Correction for Round of Beam	✓
Correction for fall in Sheer (if any)	✓
Correction for Steel Deck (if required)	− 3½"
	5'-3¾"
Winter Freeboard	5'-3¾"
Summer Freeboard	4'-10⅞"
Indian Summer Freeboard	4'-5¼" 4¼"
~~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~~ steel deck with side.	+ 1¾"
Winter Freeboard from deck line	5'-5½"
Summer " " " "	~~5'-0¼"~~ 4'-11¾"
Indian Summer " " " "	4'-~~5~~6"
~~N. A. Winter~~ " " " "	~~5'-0~~ 4'-11½"

commended amidships from centre of Disc to top of Statutory Deck Line, ~~Wood~~ (Steel) Deck :—

Fresh Water Line	above centre of Disc	7"
Indian Summer Line	" " "	5½"
Winter Line	below " "	6"
~~Winter North Atlantic Line~~	" " "	

* 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 R.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 sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern.

‡ 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 height of line of keel or to the water line. If measured relatively to water line the vessel's draught at time of survey, and also the usual load draft forward and aft should be reported.

2m,9,24. T.

MARKING FORM
RECEIVED 2 - MAR 1928

F.W. = 12190 / 40 × 43·6 = 6·99

F.W. = 12·226 / 40 × 4·36 = 4·01
See SLA Letter 26/2/29

RETAIN
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Do all the Frames extend to the top height in the Poop? yes - Raised Quarter Deck? - Bridge House? alt. yes Forecastle?

To what height do the Reverse Frames extend? Channel + bulb angle framing.

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 2 openings, closed with steel hinged plate doo

Is the Poop ~~or Raised Quarter~~ Deck connected with the Bridge House? no Has the Bridge House an efficient Bulkhead at the fore end? y

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 9 × 3½ × .50 Bds. @ 30" spacing

Are bracket plates fitted at each end of the Stiffeners? yes. Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? Rail b up sweep of bulwa Bridge sheer

Has the Bridge House an efficient Iron Bulkhead at the after end? yes

How are the openings closed? Storm boards full height in riveted channels.

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? y

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 bridge + casing

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 —

What is the height of the exposed Casings? — 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? Give particulars below:— yes. Bridge

Position and Size.	№1 - 29-3 × 20-0		№2 - 30-4 × 20-0		№3 - 16-4 × 18-0		№4 30-4 × 20-0		№5 - 30-4 × 20-0	
Item.	Ship.	Rule. +as appd	Ship.	Rule. +as appd	Ship.	Rule. +as appd	Ship.	Rule. +as appd	Ship.	Rule. +as appd
COAMING. Height above top of DECK	4'-0"		2'-8"		2'-8"		2'-8"		3'-0"	
COAMING. Thickness Sides	.50	Do	.50	Do	.44	Do	.50	Do	.50	Do
COAMING. Thickness Ends	.44		.44		.44		.44		.44	
SHIFTING BEAMS OR WEB PLATES. Number	5		5		3		5		5	
SHIFTING BEAMS OR WEB PLATES. Section and Scantlings	18 × 36 4 × 3 × .44	Do	18 × 36 4 × 3 × .44	Do	14 × 34 4 × 3 × .44	Do	18 × 36 4 × 3 × .44	Do	18 × 36 4 × 3 × .44	Do
SHIFTING BEAMS OR WEB PLATES. Material	Steel		Steel		Steel		Steel		Steel	
* FORE AND AFTERS. Number	✓	✓	—	✓	✓	✓	—	—	✓	✓
* FORE AND AFTERS. Section and Scantlings										
* FORE AND AFTERS. Material										
HATCHES Thickness	3"	Do	3"	Do	3"	Do	3"	Do	3"	Do
Remarks	Good		Good		Good		Good		Good	

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the 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*) *and under Shelter Deck Rules.*

What is the thickness of the Bridge Sheerstrake? Strake between Main and Bridge Sheerstrakes?

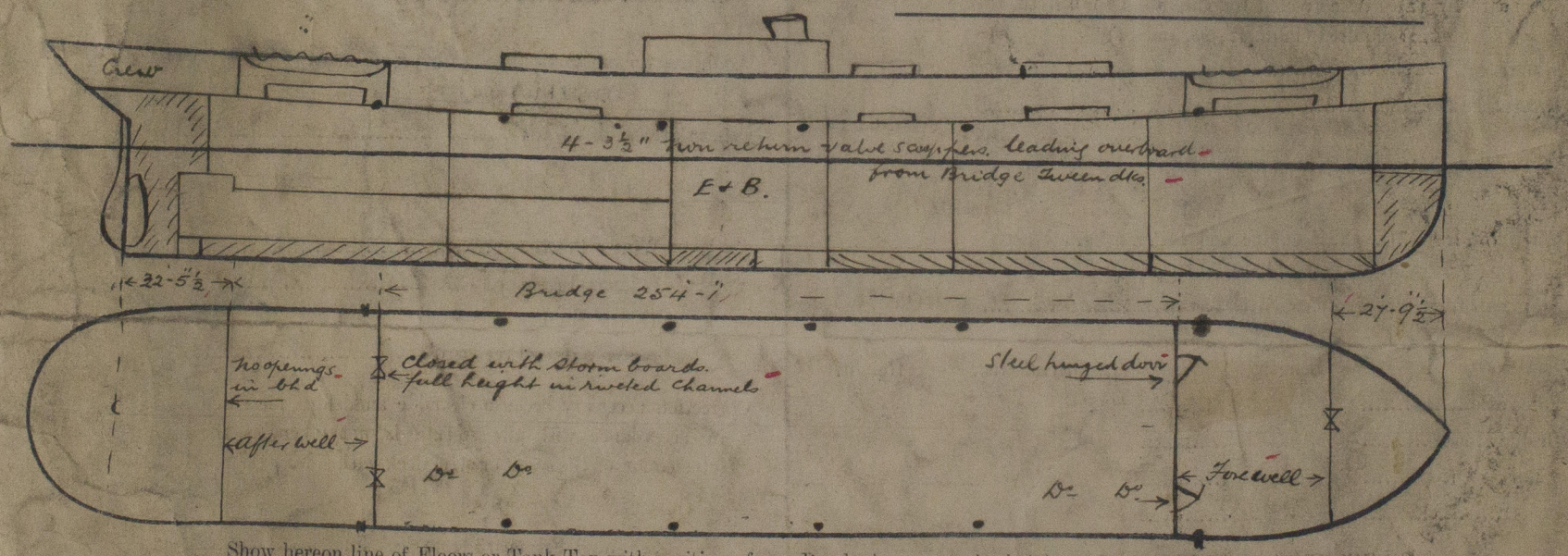
Delete the words that do not apply { The Crew *are, are not*, berthed in the bridge house. / The arrangements to enable them to get backwards and forwards from their quarters *are, are not* satisfactory.

Length of Bulwarks in well Fore 36'-0". Aft 39'-8"

Area of Freeing Ports required by ~~Rule~~ Rules 11 (*e*) each side of vessel = Fore 10·12 ~~0·67~~ aft 10·47 Sq. ft.

	Ft.	Tenths.		Ft.	Tenths.		No.		
F. well	2	66	×	1	54	×	3	= 10·74	Freeing Ports (each side of vessel) = 10·74 ~~21·24~~ 10·53 Sq. ft.
aft "	2	66	×	1	5	×	3	= 10·53	

Total ~~deficiency or~~ excess = ·64 ~~·70~~ ·06 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 no special features

Builder's name and yard number Wm Doxford & Sons Ltd. Yard No. 587.

Names of sister vessels —

Owners Crosby, Magee & Co Ltd

" *Address* West Hartlepool.

Fee £ 10 : 1 : 8 *Received by me* See F.E. Report

Will be charged on completion

Displt @ 25-5½ draft - 12190 tons

tons per inch at loaded draft 43·6 tons

Request form attached.

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