

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.-STEAM SHIPS.

No. 29145

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, WITH OR WITHOUT GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.  
*with corrugated sides.*

Port of Survey Sunderland  
Date of Survey October 1st 1925  
Name of Surveyor W.P. Collings

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
<u>NEWTON BEECH</u>	<u>Newcastle</u> <i>British</i>	<u>148139</u>	<u>4619</u> <i>4644.40</i>	<u>1925</u>	<u>I 100 A1 (contemplated)</u> <i>Revised Rules</i>

BT. COP. WHITE  
324.9

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>372.80</u>	<u>54.6</u> <i>51.7</i>	<u>26.85</u>	<u>4248.04</u>
Length on LOADLINE.	<u>371.75</u>	<u>54.6</u> <i>51.7</i>	<u>26.85</u>	<u>4248.04</u>
CORRECTED DIMENSIONS.	<u>371.75</u>	<u>51.7</u>	<u>24.66</u>	<u>4268.04</u>

Moulded Depth as measured..... 29'-3"  
Addition for Keel below base line for draught record..... 2 inches.

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<u>371.75</u>
Length in Table .....	<u>351.00</u>
Difference .....	<u>20.75</u>
Correction for 10ft., Table A. ....	<u>1.5</u>
× Difference divided by 10 .....	<u>3.11</u>
If 1/10ths length covered divide by 2 = + 3 1/2	<u>+ 3 1/2</u>

Co-efficient of fineness..... .798 *.80*  
Any modification necessary [Para. 4 (a) to (e)]\* -.02  
Co-efficient as corrected ..... .778 *say .78*

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered .....	<u>.4925</u>
Thickness of usual wood deck, less stringer .....	<u>3 1/2</u>
<u>.4925 × 3.5 = 1.72</u>	<u>- 1 3/4</u>

Sheer { Stem..... 91 } 134 ÷ 2 = 68.5 ...Mean  
at { Sternpost ... 46 }  
*69.09*  
*47.17*  
*361.21.92*  
*.61*

Sheer at 1/2 of the length from { Stem 50 } 76 ÷ 2 = 38 ...Mean  
{ Sternpost 26 }

Gradual mean Sheer 68.5 + 69.09 = 68.79 ÷ 55% = 69.09

Standard mean Sheer [Table, Para. 18] ..... 44.14 Correction  
Difference..... 21.62 ÷ 4 = 5.40  
§ If limited as Para. 18 (f) ..... - 5 1/2

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<u>50.0</u>
Round of Beam .....	<u>12 1/2</u>
Normal round.....	<u>12/2</u>
Difference .....	<u>✓ ÷ 2 =</u>
Proportion of Deck uncovered (Para. 19) .....	<u>✓</u>

Rise in Sheer { At front of bridge house.....  
from amidships }  
[Para. 18 (e)] { At after end of forecastle .....

¶ Fall in Sheer {  
Para. 18 (d) } ÷ 2 =  
Length uncovered ..... Correction

Freeboard, Table A .....	<u>7" 3/4</u>
Correction for Sheer .....	<u>- 5 1/2</u>
Correction for Length .....	<u>+ 3 1/2</u>
Allowance for Deck Erections .....	<u>- 11</u>
Correction for Round of Beam.....	<u>✓</u>
Correction for fall in Sheer (if any).....	<u>✓</u>
Correction for Iron Deck (if required) .....	<u>- 1 3/4</u>
Other Corrections (if any) .....	<u>✓</u>
Winter Freeboard .....	<u>6' 0 3/4</u>
Summer Freeboard .....	<u>5 - 7/2</u>
Indian Summer Freeboard .....	<u>5 - 2 1/4</u>
N. A. Winter Freeboard .....	<u>✓</u>

ALLOWANCE FOR DECK ERECTIONS :-

Freeboard, Table C.....	<u>4" 1 1/4</u>
Correction for Length, if required (Para. 12, 13, and 14) .....	<u>+ 1 1/2</u>
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	<u>7" 1 3/4</u>
Difference .....	<u>2" 10 3/4</u>
Percentage as below.....	<u>31.44</u>
<u>34.45 × 31.44</u> =	<u>10.9386</u>

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }	<u>-</u>	
Allowance for Deck Erections .....	<u>- 0" 4 10 3/4</u>	
Length.	Length allowed.	Height.
Forecastle..... <u>35-9 + 2-3 wing Houses</u>	<u>36.50</u>	<u>8-0</u>
Bridge House..... <u>110-6 including 2-6 overhang aft.</u>	<u>109.84</u>	<u>8-0</u>
† Raised Qr. Dk.....		
Poop..... <u>36-9</u>	<u>36.75</u>	<u>8-0</u>
Total .....	<u>183.12</u>	<u>4925</u>
Length of Ship .....	<u>371.75</u>	
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>31.44</u>	

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. } + 1 3/4

Winter Freeboard from deck line .....	<u>6 - 2 1/2</u>
Summer " " " " .....	<u>5 - 9/4</u>
Indian Summer " " " " .....	<u>5 - 4</u>
N. A. Winter " " " " .....	<u>✓</u>

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

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

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† 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 sternpost.

† 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.

MARKING FORM

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W431-0144

Do all the Frames extend to the top height in the Poop? yes Raised Quarter Deck? ✓ Bridge House? yes Forecastle? yes  
 To what height do the Reverse Frames extend? web frames + butt angles  
 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 Storm boards full height in riveted channels  
 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 Strong steel hinged doors  
 What is the thickness of the Bridge Front plating? .110 and Coaming plate? .111  
 Give scantlings and spacing of the Stiffeners 8" x 3" x 50 BA spaced 18"  
 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 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? 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 bridge  
 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

Position and Size.	No 1 - 36'0" x 22'0"		No 2 - 33'0" x 22'0"		No 3 - 18'0" x 22'0"		No 4 - 33'0" x 22'0"		No 5 - 33'0" x 22'0"		
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	
COAMING.	Height above top of DECK	3'-6"	3'-6"	3'-6"	2'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	
	Thickness	.50	.50	.50	.50	.50	.50	.50	.50	.50	
SHIPPING BEAMS OR WEB PLATES.	Number	5	5	3	5	5	5	5	5	5	
	Section and Scantlings	20 x 36 4 1/2 x 3 x 46	20 1/2 x 34 4 1/2 x 3 x 46	13 1/4 x 33 4 1/2 x 3 x 46	20 1/2 x 34 4 1/2 x 3 x 46	20 1/2 x 34 4 1/2 x 3 x 46	20 1/2 x 34 4 1/2 x 3 x 46	20 1/2 x 34 4 1/2 x 3 x 46	20 1/2 x 34 4 1/2 x 3 x 46	20 1/2 x 34 4 1/2 x 3 x 46	20 1/2 x 34 4 1/2 x 3 x 46
	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
* FORE AND AFTERS.	Number	nil	nil	nil	nil	nil	nil	nil	nil	nil	
	Section and Scantlings	nil	nil	nil	nil	nil	nil	nil	nil	nil	
	Material	nil	nil	nil	nil	nil	nil	nil	nil	nil	
HATCHES	Thickness	3	3	3	3	3	3	3	3	3	
	Remarks	good	good	good	good	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.)

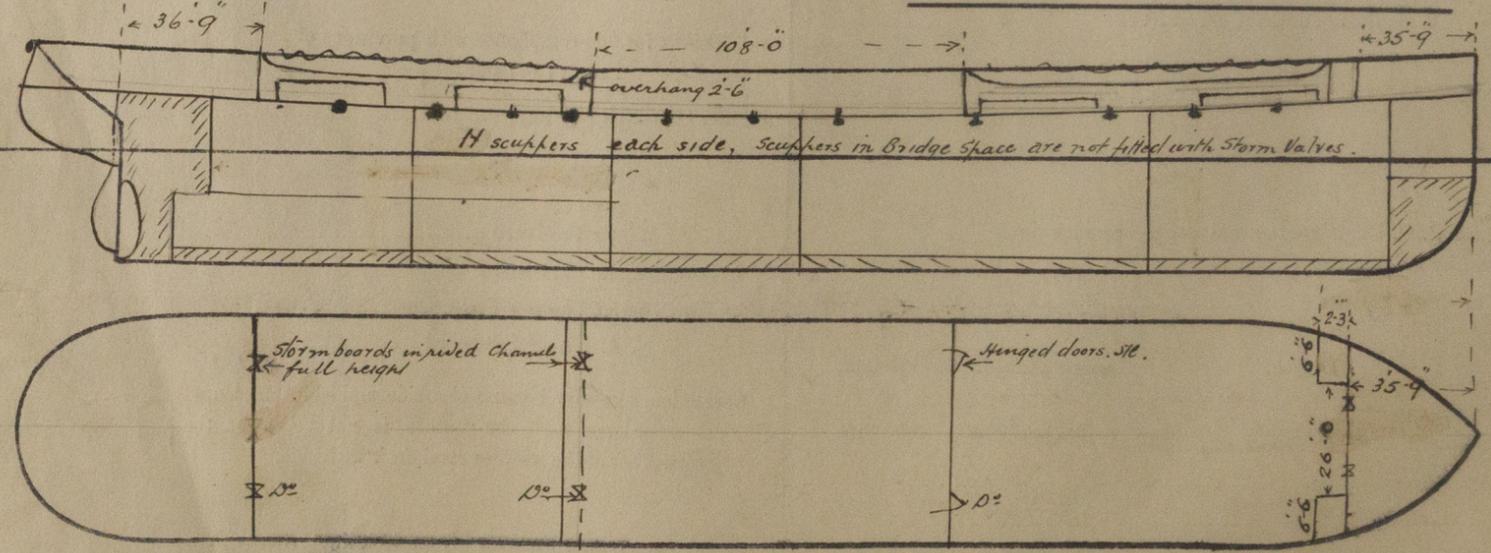
The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.  
 What is the thickness of the Bridge Sheerstrake? ✓ Strake between Main and Bridge Sheerstrakes? ✓

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 93'0" x 3'-6", aft 96'0" x 3'-6" = 661.5 ft  
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = 66.15 Sq. ft.  

	Ft.	Tenths.	Ft.	Tenths.	No.	
Afterwell	15.0	x	0.75	x	3 = 33.4	Freeing Ports (each side of vessel) = <u>66.50</u> Sq. ft.
Forewell	14.5	x	0.75	x	11	
	13.75	x	0.75	x	11 = 32.8	
	15.50	x	0.75	x	11 = 66.5	

 Total deficiency or excess = 0.35 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 Corrugated sides, longitudinal bottom & decks

Builder's name and yard number Wm. Pickersgill Sons Ltd No 215.

Names of sister vessels "Newton Ash"

Owners Ridley Son & Tully.

Address Newcastle on Tyne.

Fee £ 10 : 0 : 0 Received by me See F.S. Rpt.

will be charged on completion

{ Tons per inch 39 tons and displacement @ 23'10" 10314 tons Request form attached



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