

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

No. 100059.

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having Raised Quarter Deck Forecastle Port of Survey Birkenhead

NEXFORDIAN (Type of Superstructures.)
ex Ship's Name BLARNEY Nationality and Port of Registry British Westport Cork Official Number 136432 Gross Tonnage 809 Date of Build 1912-12

Date of Survey March 18th 1932 and Subsequently
Name of Surveyor H.B. Murray

Moulded Dimensions: Length 199'-0" Breadth 30'-0" Depth 13'-4"
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1444 ✓ tons
Coefficient of fineness for use with Tables .450 ✓

Particulars of Classification +100 A1

Depth for Freeboard (D) 13'-8"
Moulded depth ... 13'-8"
Stringer plate ... (Add) 4'-4"
Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$ ✓
Depth for Freeboard (D) = 13'-62"

Depth correction
(a) Where D is greater than Table depth
(D - Table depth) R = (13'-62" - 13'-24") 1.531 = + 0.54 ✓
(b) Where D is less than Table depth (if allowed)
(Table depth - D) R =
If restricted by superstructures

Round of Beam correction
Moulded Breadth (B) 30'-1"
Standard Round of Beam = $\frac{B \times 12}{50} =$ 7.20
Ship's Round of Beam = 7 1/2"
Difference .30
Restricted to
Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$.30 x .289 = -.02

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	✓					Standard Height of Superstructure <u>6'-00"</u> ✓
" overhang ...	✓					" " R.Q.D. <u>3'-66"</u> ✓
R.Q.D. enclosed ...	<u>121'-00"</u>	<u>121.00</u>	<u>4'-00"</u>	✓	<u>121.00</u>	Deduction for complete superstructure <u>25.90</u> ✓
" overhang ...	✓					Percentage covered $\frac{S}{L} =$ <u>77.38</u> ✓
Bridge enclosed ...	✓					" " $\frac{S_1}{L} =$ <u>73.68</u> ✓
" overhang aft ...	✓					" " $\frac{E}{L} =$ <u>73.68</u> ✓
" overhang forward ...	✓					Percentage from Table, Line A. <u>64.53</u> ✓ (corrected for absence of forecastle (if required))
Forecastle enclosed open ...	<u>33'-0"</u>	<u>25.63</u>	<u>7'-0"</u>	✓	<u>25.63</u>	Percentage from Table, Line B. (corrected for absence of forecastle (if required))
" overhang ...	✓					Interpolation for bridge less than 2L (if required)
Trunk aft ...	✓					Deduction = <u>25.90 x .6453 = - 14.49</u> ✓
" forward ...	✓					
Tonnage opening aft ...	✓					
" forward ...	✓					
Total ...	<u>154.00</u>	<u>146.63</u>			<u>146.63</u>	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	29.90	1		29.90	31	31.00	29.90	1	29.90	Mean actual sheer aft = Excess ✓ (addition for excess height of R.Q. deck = 4'-08" ✓)
1/4 L from A.P. ...	13.30	4		53.20	13 1/2	12.64	13.30	4	53.20	Mean actual sheer forward = Deficient 95.90% for open forecastle
3/4 L " ...	3.29	2		6.58	3	3.16	3.29	2	6.58	Length of enclosed superstructure forward of amidships =
Amidships ...		4						4		" " aft of " =
3/4 L from F.P. ...	6.58	2		13.16	9	6.12	6.12	2	12.24	
1/4 L " ...	26.61	4		106.44	24 1/2	24.49	24.49	4	97.96	Sheer forward.
F.P. ...	59.80	1		59.80	60	61.00	61.00	1	61.00	Actual Standard
Total ...				269.08					260.88	

3631

8.20

18

75

2L

3869

14

6.12

3

18.36

24.49

3

73.47

61.00

1

61.00

59.80

1

59.80

152.83

159.34

Correction =

Difference between sums of products

18

(75 - S)

2L

=

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 14'-62" Ft.
Summer freeboard = 4'-60" ✓
Moulded draught (d) = 13'-02" ✓

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 3'-25" = 3'-2 1/2" ✓
Addition for Winter North Atlantic Freeboard (if required) = 2" ✓

Deduction for Fresh Water.
Displacement in salt water at summer load water line $\Delta =$ 1690 ✓
Tons per inch immersion at summer load water line $T =$ 11.8 ✓
Deduction = $\frac{\Delta}{40 T}$ inches = 3'-58" ✓
= 3'-5" ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)
Correction for coefficient .450 + .68
1.36

	+	-
Depth Correction ...	<u>0.54</u>	✓
Deduction for superstructures ...		<u>14.49</u>
Sheer correction ...	<u>0.14</u>	✓
Round of Beam correction ...		<u>.02</u>
Correction for Thickness of Deck amidships ...	<u>48.00</u>	✓
Other corrections, scantlings, etc. ...		
	<u>48.74</u>	<u>14.51 + 31.20</u>
Summer Freeboard =		<u>55.31</u>

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

28 MAR 1932	Tropical Fresh Water Line above Centre of Disc ...	<u>6 3/4"</u> ✓	Tropical Fresh Water Freeboard ...	<u>4'-7 1/4"</u>
	Fresh Water Line " " ...	<u>3 1/2"</u> ✓	Fresh Water " " ...	<u>4'-20 1/2"</u>
	Tropical Line " " ...	<u>3 1/4"</u> ✓	Tropical " " ...	<u>4'-3 3/4"</u> ✓
	Winter Line below " " ...	<u>3 1/4"</u> ✓	Winter " " ...	<u>4'-4"</u>
	Winter North Atlantic Line " " ...	<u>5 1/4"</u> ✓	Winter North Atlantic " " ...	<u>4'-10 1/2"</u>

RECEIVED 14 NOV 1934

MARKING FORM RECEIVED 2 SEP 1933

MARKING FORM RECEIVED 3 JAN 1933

BLARNEY

Particulars of fiddle, funnel and ventilator coverings:— Fiddle Funnel Ventilator coverings in efficient condition. ✓
Fiddle gratings fitted with strong steel hinged covers. ✓
Ed Gallery Skylights strongly constructed of wood with hinged wood flaps. ✓

None. ✓

Particulars of Companionways:— Steel Companion to crews Quarters, under raised Forecastle
5'-6" x 2'-6", steel hinged door 4'-7" x 2' manipulated from both sides, sill 16".

1- 8" Vent 12" x $\frac{5}{8}$ " Coaming on Forecastle Deck to Crews Accommodation. ✓
 1- 10" Vent 36" x $\frac{3}{8}$ " Coaming on Forewell Deck to Hoed. ✓
 2- 2' 3" Vents. 4' 3" x $\frac{3}{8}$ " Coamings on Forewell Deck to Hoed? Fitted with fans. ✓
 2- 2' 3" Vents 4' 3" x $\frac{3}{8}$ " Coamings on RQ Deck to Hoed. ✓
~~Hopeless canvas covers~~

Efficient clanging
 appliances are
 provided

2 on Foreboard deck in open Forecastle 3" dia. 6" high C.I. to FP Tank. } provided with non detachable
2 on Foreboard deck in open Forecastle 3" dia 7" high C.I. to No 1 DB Tank. } plugs
2 on R/D Deck. 3" dia ³⁰/₁₆" high WI to No 2 DB Tank. } ~~Air pipes not fitted with Converter plugs.~~
2 on R/D Deck 2 1/2" dia ³⁷/₈" high WI to No 2 DB Tank. } and W I air pipes have no lips at mouth.
1 on R/D Deck 3" dia ³⁰/₁₆" high WI to A Peak Tank. } provided with wood plugs

None

Particulars of Side Scuttles: Side Scuttles in Crews accommodation forward fitted with hinged deadlights
Side scuttles in open fore-castle not fitted with deadlights. ✓

Particulars of Guard Rails :- On Raised Forecastle. 3'-1" high. stanchions spaced 4'-3".
2 rails. ✓

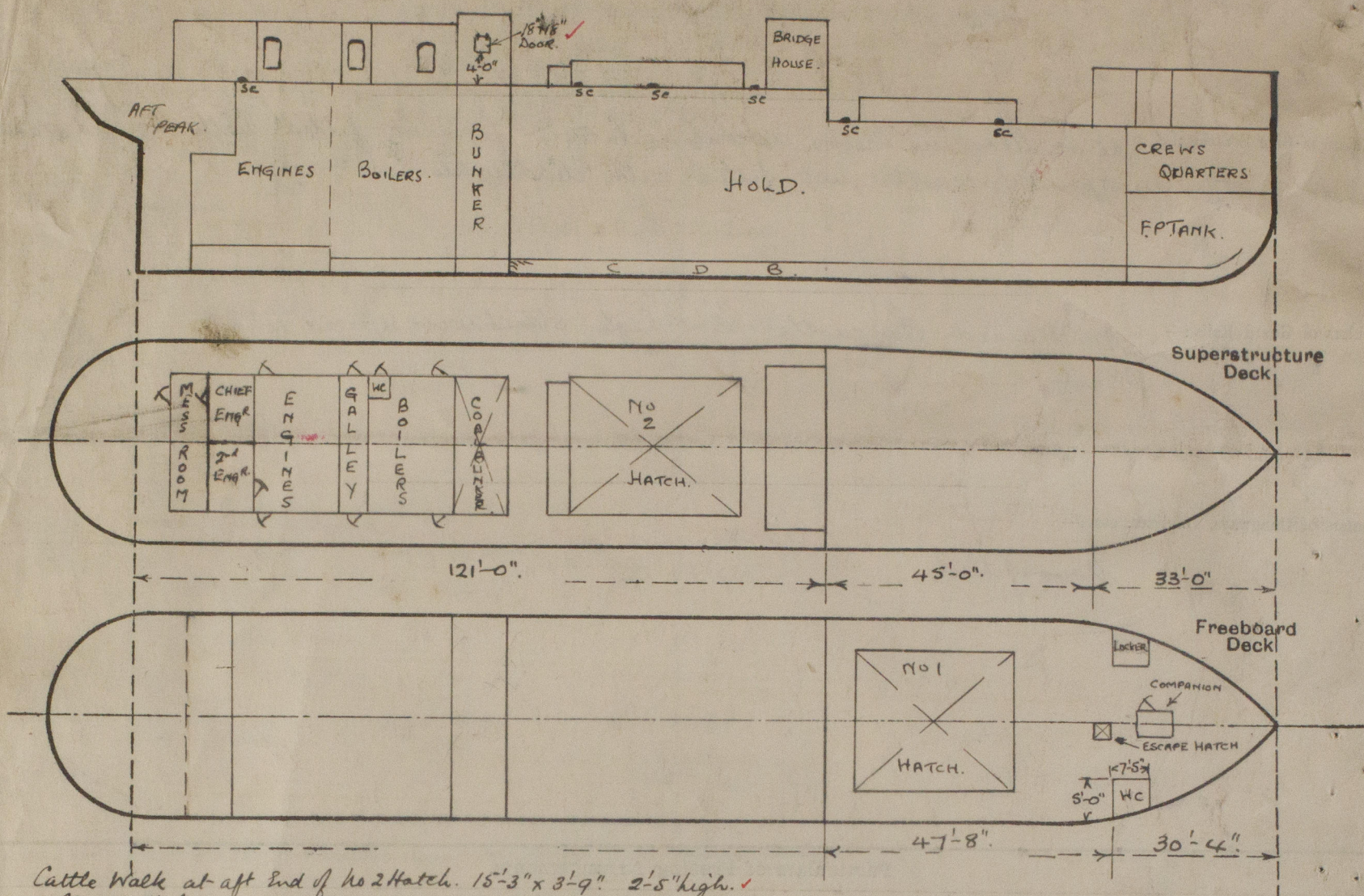
Particulars of Gangways, Lifelines, etc. :-

None fitted	<i>lifelines provided in forward well</i>
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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 ...	7/16" ✓	5/16" ✓	4 x 3 x 3/8 L.S. 2 1/2 ft. on deck ✓	20" to 4'-0" ✓	—	None ✓	✓	4'-0"
Bridge, After Bulkhead	✓							
Bridge, Forward Bulkhead	✓							
Forecastle Bulkhead	Open Forecastle ✓							7'-0"
Trunk, Aft	✓							
Trunk, Forward	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	3/8" ✓	1/4" ✓	2 1/2 x 2 1/2 x 3/8" ✓	2'-8" ✓	Bracket at top ✓	4'-1" x 2'-0" ✓ 4'-6" x 2'-0" ✓	22" ✓ 17" (actual) ✓	6'-6"
Exposed Machinery Casings on Superstructure Decks	✓							
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓							
Deckhouses on Flush Deck Ships ...	✓							

Poop Bulkhead	✓
Raised Quarter Deck Bulkhead	✓ <i>no openings.</i> ✓
Bridge, After Bulkhead	✓
Bridge, Forward Bulkhead	✓
Forecastle Bulkhead	<i>Open Forecastle.</i> ✓
Exposed Machinery Casings on Freeboard Raised Quarter Decks	<i>Edr Lidley + Gally doors strong steel hinged Manipulated from both sides</i>
Exposed Machinery Casings on Superstructure Decks	<i>Access Door strong hinged wood. Manipulated from both sides.</i>
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Ships	✓

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



Cattle Walk at aft end of No 2 Hatch. 15'-3" x 3'-9" 2'-5" high. ✓
 WPCovers 3" bearing 3". 2 tarpaulins, cleats spaced 2'-0" hinged end 2'-5" high. ✓
 Escape Hatch Forward. 2'-2" square. 9 x 3 1/2 x 1/2" BA coaming. WPCover 2 1/2" thick. Cleats spaced 16". 2 tarpaulins. ✓
 Bunker Hatch 16'-6" x 9'-1" coaming 7'-6" high. 3" WPCovers fitted F&A. bearing 2". cleats spaced 23" 2 tarpaulins. ✓

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

Lorecastle.

33.00	33.00
1/10 L. x .959 = 19.08	19.90 ✓
13.92	21.13.10 ✓
	6.55 ✓
	19.08 ✓
	<u>25.63</u> ✓

Builder's name and yard number J. Fullerton & Co. Paisley

Names of sister ships

Owners City of Cork Steam Packet Co. Ltd.

Fee £ 6 : 16 : 0

Received by me



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Foundation