

# 43 Decks. & Shelter IRON OR STEEL STEAMER.

Received at London Office TUES. 26 JUN 1906

State if Report is also sent on the Machinery of the Vessel Yes

Date of completion of report 9th June 1906 Port of Glasgow No. 24118  
 Survey held at Glasgow Date, First Survey 17th Feb 05 Last Survey 4th June 181906

On the Steel Twin Screw Steamer "EMPRESS OF IRELAND" Rig Schooner. 2 masts

TONNAGE under Tonnage Deck 2264.34 THREE DECKED VESSEL.  
 Do. between Tonnage Deck 2268.61  
 and 3rd and 4th Dk. 2238.88

Total under Upper Dk. 9444.86 CLASS 100A-1 Shelter Dk FEET.

Do. of Poop 158.01 Half Breadth (moulded) 32.75  
 Do. of Bridge House 1196.21 Depth from upper part of Keel to top of Upper Deck Beams 41.35  
 Do. of Forecastle 116.28 Girth of Half Midship Frame (as per Rule) 67.50

Do. of Houses on Dk. 1298.90 deduct 7 feet 7  
 Do. of Houses on Dk. 1134.45 141.60  
 Do. above Crown of Engine Room 509.04 184.60

Gross Tonnage 14191.05 1st Number 73962  
 Less Crew Space 606.26 Length on deck from after part of stem to fore part of stern post 529.5  
 Less above Crown of Engine Room 509.04 2nd Number 73962

TONNAGE FOR FEES 13045.45 Proportions—Breadth to Length 8.38  
 Less Engine Room 5459.48 Depth to Length—Upper Deck to top of Keel 13.29  
 Less Navigation Spaces 97.14 Main Deck ditto 16.47

Register Tonnage 8028.14 Destined Voyage Liverpool

on Beam 8028.14 Surveyed while Building, Afloat, in Dry Dock

Master F. Carey Year of appointment 1906

Built at Glasgow

When built 1905/1906 Launched 27th Jan 1906

By whom built The Fairfield Shipbuilding & Engineering Co. Ltd.

Owners Canadian Pacific Railway Co.

Managers (Where necessary to be entered in Reg. Book.)

Residence

Port belonging to Liverpool

Length on Deck as per Rule 349.6 Breadth Moulded 65.6 Depth, Actual—Top of Floors to top of Upper Dk. Beams 36.75

Do. do. do. do. Main Dk. Beams 29.7

Dimensions of Ship per Register, Length 548.9 breadth 65.75 depth 36.75 Moulded depth, ft. 40.0 To Upper Dk. Round of Upper Dk. Beam, Actual 12 ins.

FRAMING. Inches in Ship. 16ths in Ship. 20ths in Ship. 16ths in Ship. 20ths in Ship. 16ths in Ship. 20ths in Ship.

FRAME, Angles, or Bars for length 8x3 1/2 x 3 1/2 11 8x3 1/2 x 3 1/2 11

Do. at each end 7 1/2 x 3 1/2 10 7 1/2 x 3 1/2 10

Do. in way of Double Bottoms at Solid Floors 3 1/2 x 3 1/2 11 3 1/2 x 3 1/2 11

Distance of Frames from moulding edge to moulding edge, all fore and aft 24 1/2 peak 24 1/2 peak

REVERSED FRAME, Angles 4 4 10 4 4 10

DEEP FRAMING, depth of girder 8 8

FLOORS, depth and thickness of Floor Plate at mid-line for length amidships 27 27

in way of Engines and Boilers 27 27

thickness at the ends of vessel 27 27

depth at the half breadth, as per Rule 27 27

height extended at the Bilges 27 27

LOORS & BRACKETS in Cell Dble Bottoms 53 10 53 10

Distance apart 27 27

ENTRE GIRDER, in Double bottom, depth 53 13 53 13

and thickness 53 13 53 13

Angles, Top 4 4 12 4 4 12

Bottom 5 5 13 5 5 13

IDE GIRDERS, number on each side & thickness 10 10

Angles 8 1/2 x 3 1/2 11 8 1/2 x 3 1/2 11

MARGIN PLATE, depth (exclusive of flange) 4 1/2 x 3 1/2 11 4 1/2 x 3 1/2 11

and thickness 4 1/2 x 3 1/2 11 4 1/2 x 3 1/2 11

Angles to Outside Plating 4 4 12 4 4 12

INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake 53 12 53 12

in Engine and Boiler space 53 12 53 12

Remainder in Holds 109 109

BEAMS, Upper Deck, Single Angle, Bulb 8x3 1/2 x 3 1/2 10 8x3 1/2 x 3 1/2 9

Angle, Plate or Tee Bulb Channels 27 27

Angles on upper edge 27 27

Average space 54 54

BEAMS, Middle Deck, Single Angle, Bulb 12x3 1/2 x 3 1/2 13 12x3 1/2 x 3 1/2 13

Angle, Plate or Tee Bulb Channels 54 54

Angles on upper edge 54 54

Average space 54 54

BEAMS, Lower Deck, Single Angle, Bulb 12x3 1/2 x 3 1/2 16 12x3 1/2 x 3 1/2 16

Angle, Plate or Tee Bulb Channels 54 54

Angles on upper edge 54 54

Average space 54 54

BEAMS, Hold, or Orlop, Plate or Tee Bulb 8x3 1/2 x 3 1/2 10 8x3 1/2 x 3 1/2 9

Angle, Plate or Tee Bulb Channels 27 27

Angles on upper edge 27 27

Average space 54 54

BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate 8 3 9 8x3 1/2 x 3 1/2 8

Angle, Plate or Tee Bulb Channels 27 27

Angles on upper edge 27 27

Average space 54 54

CLARS, In 'tween Deck, size and spacing 2 1/2 x 5 1/2 2 1/2 x 5 1/2

Hold 2 1/2 x 5 1/2 2 1/2 x 5 1/2

Quarter 'tween Dks., 2 1/2 x 5 1/2 2 1/2 x 5 1/2

in Hold 2 1/2 x 5 1/2 2 1/2 x 5 1/2

WEB-FRAMES, In Fore Body, No. and spacing 30 11 30 11

brdth. & thickness 30 11 30 11

No. of Side Stringers 30 11 30 11

WEB-FRAMES, In E. & B. Space, No. and spacing 30 11 30 11

brdth. & thickness 30 11 30 11

No. of Side Stringers 30 11 30 11

Size of Angles or Tee Bars to Web-Frames 6 1/2 x 3 1/2 15 6 1/2 x 3 1/2 15

BRACKET PLATES to Stringers between Web Frames, depth and thickness 24 10 24 10

FORGINGS OR CASTINGS. Inches in Ship. 16ths in Ship. 20ths in Ship. 16ths in Ship. 20ths in Ship. 16ths in Ship. 20ths in Ship.

KEEL, Bar or Side Plates, depth and thickness 12x3 1/4 12x3 1/4

STEM, moulding and thickness 12x3 1/4 12x3 1/4

STERN-POST for Rudder do. do. 13 13

for Propeller do. do. 13 13

MAIN PIECE of Rudder, diameter at head 9 9

do. at heel 9 9

RUDDER, how constructed 25 25

Can the Rudder be unshipped afloat? Yes

KEELSONS & STRINGERS. Inches in Ship. 16ths in Ship. 20ths in Ship. 16ths in Ship. 20ths in Ship. 16ths in Ship. 20ths in Ship.

CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate 4x4 9 4x4 9

Rider Plate 4x4 9 4x4 9

Bulb Plate to Intercoastal Keelson 4x4 9 4x4 9

Horizontal Plates on Floors 4x4 9 4x4 9

Angles 4x4 9 4x4 9

SIDE KEELSON, Angles 4x4 9 4x4 9

Bulb or Plate above floors, for lng. 4x4 9 4x4 9

Intercoastal Plate, for lng. 4x4 9 4x4 9

Attached to outside Plating with Angle 4x4 9 4x4 9

BILGE KEELSON, Angles 4x4 9 4x4 9

Bulb or Plate above floors, for lng. 4x4 9 4x4 9

Intercoastal Plate, for lng. 4x4 9 4x4 9

Attached to outside Plating with Angle 4x4 9 4x4 9

BILGE STRINGER Angles 4x4 9 4x4 9

Bulb Plate for lng. 4x4 9 4x4 9

Intercoastal Plate for lng. 4x4 9 4x4 9

Attached to outside Plating with Angle 4x4 9 4x4 9

SIDE STRINGER Angles 4x4 9 4x4 9

Bulb or Intercoastal Plate, for lng. 4x4 9 4x4 9

Attached to outside plating with Angle 4x4 9 4x4 9

Upper Deck Stringer Plates, br'dth & thickness 6 1/2 x 12 1/2 6 1/2 x 12 1/2

Angle on ditto 4x4 9 4x4 9

Tie Plates fore and aft, outside Hatchways 4x4 9 4x4 9

Deck, Iron or Steel, for full lng. 4x4 9 4x4 9

Wood Deck, Material & thickness P.P. 3 3

Middle Deck Stringer Plate, br'dth & thickness 6 1/2 x 10 6 1/2 x 10

Angles on ditto, No. 4x4 9 4x4 9

Tie Plates outside Hatchways 4x4 9 4x4 9

Diagonal Tie Plates on Bms., No. of prs. 4x4 9 4x4 9

Deck, Iron or Steel, for full lng. 4x4 9 4x4 9

Wood Deck, Material & thickness P.P. 3 3

Lower Deck Stringer Plate, br'dth & thickness 6 1/2 x 9 6 1/2 x 9

Angles on ditto, No. 4x4 9 4x4 9

Tie Plates, outside Hatchways, ditto 4x4 9 4x4 9

Deck, Material and thickness U.P. 3 3

Hold, or Orlop Stringer Plate, br'dth & thickness 4 1/2 x 10 4 1/2 x 10

Angles on ditto, No. 4x4 9 4x4 9

Tie Plates outside Hatchways, ditto 4x4 9 4x4 9

Deck, Material and thickness ditto 4x4 9 4x4 9

Lower Deck Stringer Plate, breadth & thickness 6 1/2 x 12 1/2 6 1/2 x 12 1/2

Angle on ditto 4x4 9 4x4 9

Tie Plates 4x4 9 4x4 9

Deck, Material and thickness 4x4 9 4x4 9

Bridge Deck Stringer Plate, br'dth & thickness 4 1/2 x 14 4 1/2 x 14

Angle on ditto 4x4 9 4x4 9

Tie Plates 4x4 9 4x4 9

Deck, Material and thickness 4x4 9 4x4 9

Forecastle Deck Stringer Plate, br'dth & thickness 4 1/2 x 13 1/2 4 1/2 x 13 1/2

Angle on ditto 4x4 9 4x4 9

Tie Plates 4x4 9 4x4 9

Deck, Material and thickness 4x4 9 4x4 9

BULKHEADS. Number. In Vessel. Per Rule. Thickness. STIFFENERS. Horizontal. Vertical. Single or Double Frames. Height up.

W. T. BULKHEADS 10 9 8 7/16 11 1/2 x 12 1/2 x 12 1/2 50 30 30 1/2

PARTITION 6 1/2 x 7 1/2 6 1/2 x 7 1/2 50 30 30 1/2

LONGITUDINAL 5 1/2 x 7 1/2 5 1/2 x 7 1/2 50 30 30 1/2

Are the outside Plates doubled two spaces of Frames in length Diamond plates fitted

Are the Sluice Valves and Watertight Doors in efficient working order? Yes



[illegible]



Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case)

M 28/12/04, 6/1/05, 12/1/05, 30/1/05, 3/2/05, 8/2/05, 11/2/05, 14/2/05, 1/3/05, 3/3/05, 18/3/05, 21/3/05, 28/3/05, 4/4/05

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*

Is the riveted work properly closed? *yes*

Are the liners between the frames and plates solid single pieces? *yes*

Do the holes for riveting plate to frames, butt straps, or plate

to plate, &c., conform well to each other? *yes*

Are the rivet holes well and sufficiently countersunk in the plate and punched

from the faying surfaces? *yes*

Do any rivets break into or through the seams or butts of plating? *a few*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *yes*

Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par. 24)? *yes*

State results of tests *Satisfactory*

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *yes*

State results of tests *Satisfactory*

General Remarks (State quality of workmanship, &c.) *Workmanship good*

*This vessel has been built in accordance with the approved plans, the Secretary's letters of above dates and in general conformity to the Rules for the class contemplated.*

*26 plans*

*7 Reports on ship castings & forgings*

*This is a sister vessel to the same Builders No 442 "Empress of Britain" 466 Sept 28 1909*  
The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *ft., R.Q.D. or Break* *ft., Bridge Dk. 405 ft., F'castle 95 ft.*  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *4 Dks (Stl. & Wm. W.S.) & shelter Dk (Stl. & Wm. W.S.) & web frames*

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside *Paint & Cement* Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors *Cellular system*

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	81	145	Fore peak tank,		49
Double bottom, under Engines and Boilers,	225	1146	After peak tank,		
Double bottom, if under Engines only,			Midship deep tank,	51.75	1950
Double bottom, if under Boilers only,			Other tanks, if fitted, <i>Fresh water.</i>	22.5	185
Double bottom, forward,	144	377	(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks.

State whether the above have been tested as required by the Rules *yes*

Order for Special Survey No. *1970*

Date *27. 2. 05*

No. *443* in builder's yard.

DATES of Surveys held while building

*1903. July 17. Mar 17. 2. Apr 15. 17. 21. 28. May 1. 4. 8. 11. 16. 19. 25. 27. Jun 1. 8. 9. 26. 27. 30. 31. 36. 37. 4. 11. 27. Aug 29. 6. 21. 23. 25. 28. 30. 31. 1. 6. 8. 13. 15. 20. 27. Oct 3. 11. 18. 19. 22. 26. 31. Nov 2. 6. 9. 12. 16. 20. 24. 29. Dec 4. 6. 11. 18. 21. 27. 26. 29. 1904. Jan 2. 13. 18. 19. 22. 26. 30. Feb 1. 7. 14. 20. 27. 28. 29. Mar 5. 9. 14. 20. 23. 28. Apr 2. 5. 20. 26. May 1. 22. 26. June 4.*

Total No. of Visits *92*

The amount of Entry Fee.....£ *5* :

Fees applied for,

*25. July 1904*

Special Survey Fee .....£ *51* : *18* :

Received by me,

Travelling Expenses, if any £ :

*25. July 1904*

Certificate to be sent to *Glasgow*

State whether the Vessel has been built under Special Survey *yes*

I am of opinion this Vessel should be Classed *+ 100 H (Steel) Shelter dk.*

*J.D. Mares.*

With, or without Freeboard, as condition of Class *without*

Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Character assigned *+ 100 H (Steel) "Shelter dk." Lloyd's acc'd.*