

Lloyd's Register of Shipping.

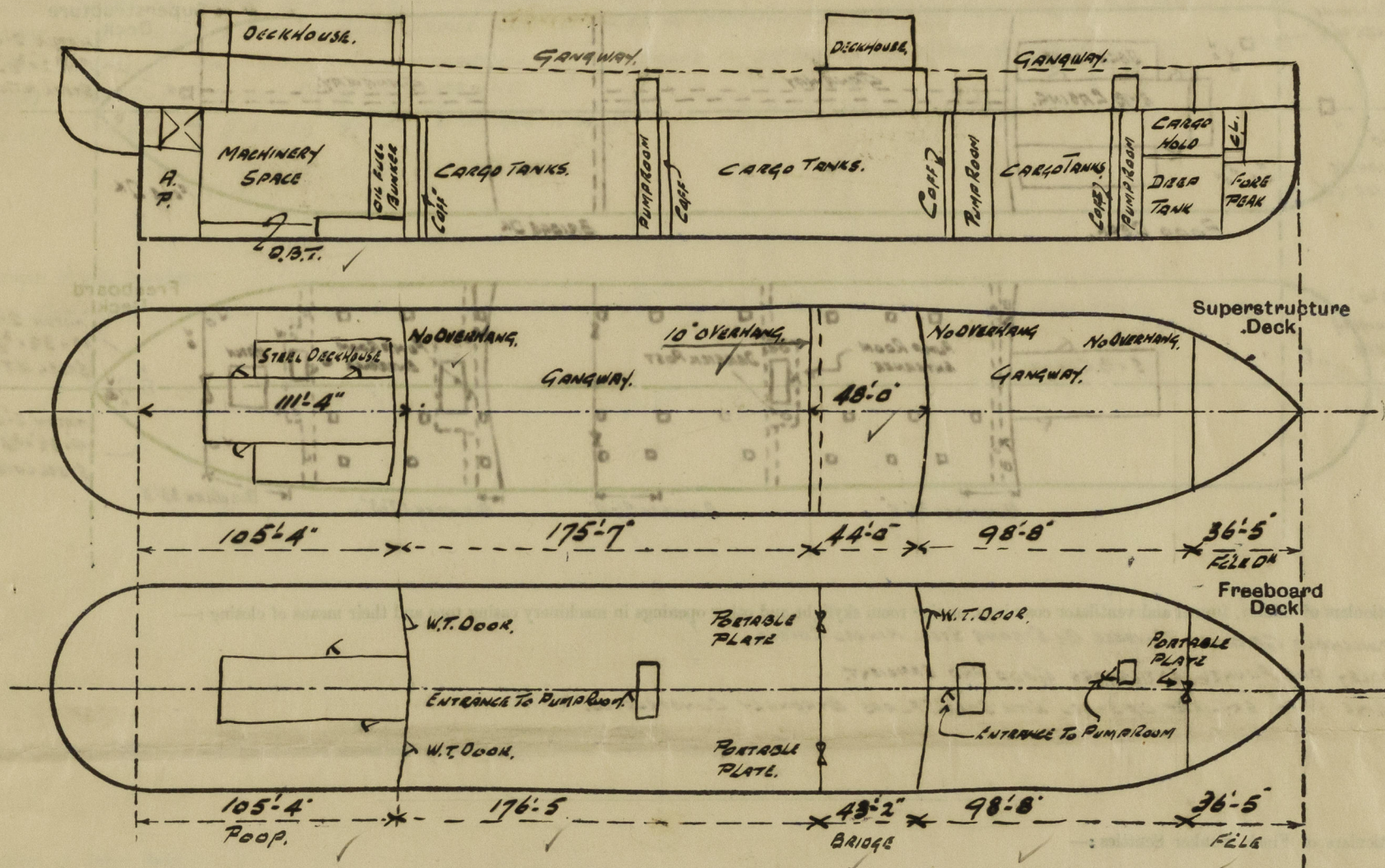
SURVEYS FOR FREEBOARD.

(CONDITIONS OF ASSIGNMENT.)

No. 17101

Ship's Name **EMPIRE EMERALD** Port of Survey **MIDDLESBROUGH.**
FURNES S.B. CO. LTD N° 334
 Official Number **164849** Surveyor's Signature **Cyril B. Acorn**
 Nationality and Port of Registry **BRITISH MIDDLESBROUGH** Date of Survey **WHILE BUILDING.**

Disposition and dimensions of superstructures, trunks, deckhouses and machinery casings to be inserted in the diagrams and tabular statement:—



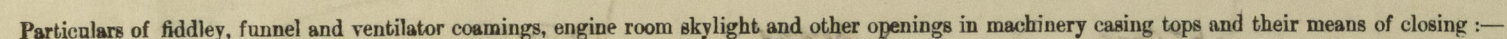
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	3'-9" x 44"	44"	CR 10" x 3 1/2" x 7/16"	24" APART.	BKS TOP & BOTTOM	5'-0" x 3'-0"	18"	7'-6" ✓
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead	3'-9" x 34"	34"	5" x 3" x 3/8" x 7/16"	36"	BKS AT TOP ONLY	3'-1" x 5'-1"	18"	7'-6" ✓
Bridge, Forward Bulkhead	3'-9" x 48"	48"	10" x 3 1/2" x 1/2" x 7/16"	36"	BKS AT TOP, W. AT BOT.	3'-0 1/2" x 5'-0"	18"	7'-6" ✓
Forecastle Bulkhead	3'-9" x 30"	30"	5" x 3" x 5/16" x 7/16"	30"	NOT ATTACHED.	4'-0 1/2" x 5'-0"	18"	7'-6" ✓
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	House Front, 3'-6" x 36"	30"	6" x 3 1/2" x 5/16" x 7/16"	30 3/4"	BKS T. & B.	NO OPENINGS	✓	8'-0" ✓
Exposed Machinery Casings on Superstructure Decks	3'-9" x 34"	30"	4 1/2" x 3" x 5/16" x 7/16"	30 3/4"	BKS AT TOP CONTINUOUS AT BOT.	2'-0" x 5'-0"	18"	8'-0" ✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships								

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	HINGED WATERTIGHT STEEL DOORS MANIPULATED FROM BOTH SIDES (PORT & STARBOARD SIDES.) ✓
Raised Quarter Deck Bulkhead	✓
Bridge, After Bulkhead	PORTABLE PLATE WITH HOOKED BOLTS 12" APART (PORT & STARBOARD SIDES.) ✓
Bridge, Forward Bulkhead	HINGED WATERTIGHT STEEL DOOR MANIPULATED FROM BOTH SIDES (PORT SIDE ONLY.) ✓
Forecastle Bulkhead	PORTABLE PLATE WITH HOOKED BOLTS 12" APART. (IN CENTRE) ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	✓
Exposed Machinery Casings on Superstructure Decks	STEEL HINGED DOORS MANIPULATED FROM BOTH SIDES.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Ships	PUMP ROOM ENTRANCES HINGED WATERTIGHT STEEL DOORS MANIPULATED FROM BOTH SIDES ✓

The following diagrams should be used to indicate the positions of cargo and coaling hatchways, gangway, cargo and coaling ports, ventilators, companionways, etc., which would affect the seaworthiness of the ship:—



STOKHOLD GRATING COVERED BY STRONG STEEL HINGED COVERS.
FLOOD BY AND FUNNEL VENTILATORS GOOD AND EFFICIENT.
ENGINE ROOM SKYLIGHT OF STEEL WITH STEEL FLOOR STRONGLY CONSTRUCTED.

Particulars of Flush Bunker Scuttles:—

NONE FITTED.

Particulars of Companionways :—

Particulars of Companionways:—
PUMP ROOM ENTRANCES IN FORE DECK OF STEEL, 4'-0" x 5'-8" x 6'-6" PLATING, FORE ENDS 140° STICKENERS, 5'-3" x 3/8" STEEL CAST-IRON DOOR ON AFTER SIDE 4'-4" x 2'-0" COAMING 18" 2 SLOES
MIDN PUMP ROOM ENTRANCES ONE ON FORE DECK AND ON AFTER DECK, 6'-6" x 15'-6" x 6'-6" PLATING, FORE ENDS 140° STICKENERS 7'-3" x 5'-3" SPACED 2'-2" APART, AFTER ENDS, PLATING, 30° STICKENERS, 5'-3" x 5/16" SPACED ABOUT 2'-6" APART. STEEL CAST-IRON DOORS IN AFTER SIDE 4'-4" x 2'-0" COAMING 18" 2 SLOES

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :—

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—	
VENTILATORS ON ROOF DECK	<p>To AFTER PEAK STORE AND STACKING GEAR SPACE 1 OFF 8" DIA CORNING 2'-6" x 30" ✓</p> <p>To STEERING GEAR SPACE + ROOF SPACE 3 OFF 6" DIA W.I. PIPES 2'-6" x 25" ✓</p> <p>To ENGINEERS STORE 2 OFF 18" DIA CORNINGS 2'-6" x 40" ✓</p> <p>To ROOF SPACE 2 OFF 12" DIA " 2'-6" x 34" ✓</p> <p>To ROOF SPACE GOOSE NECK PIPES. 10 OFF 6" " 2'-6" x 40" ✓</p>
FREEBOARD DECK.	<p>To PUMP ROOM 2 DERRICK POSTS RATING 15 VENTILATORS. ✓</p> <p>" " FORWARD To FORE HOLD. 2 OFF 10" DIA. CORNINGS 9'-0" x 32 STRAY TO FILE FRONT ✓</p> <p>" " " To PUMP ROOMS 4 OFF 12" DIA. CORNINGS 3'-0" x 34" ✓</p>
FORECASTLE DECK.	<p>To FORE PEAK STORE. 1 OFF 8" DIA CORNING 3'-0" x 30" ✓</p>
BRIDGE DECK.	<p>To BRIDGE SPACE. 6 OFF 6" DIA W.I. PIPES. 2'-6" x 25" ✓</p>

ALL VENTILATORS CONSTRUCTED IN ACCORDANCE WITH THE RULES AND COAMINGS CLOSED WITH WOOD PLUGS AND CANVAS COVERS.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :—

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :-

POOP DECK AIR PIPES TO TRANSON SPACE,	2½" DIA GOOSE NECK	18" HIGH (SS)
- - - RUDDER TRUNK,	2½"	18" HIGH (PS)
- - - AFTER PEAK TANK	3"	18" (PS)
SOUNDING PIPE TO AFTER PEAK TANK,	2"	3'-0" ABOVE WATER DECK WITH SELF CLOSING COCK.
AIR PIPES LEO TO DISTRIBUTION CASING TOP,	2 OFF 3" DIA, 2 OFF 2½" DIA,	WITH GOOSE NECKS, 18" HIGH.
- - - 3'-0" ABOVE WATER DECK,	WITH GOOSE NECK 2 OFF 4" DIA.	
SOUNDING PIPES TO D.B.T.,	3'-0" ABOVE Y.T. FITTED WITH QUICK CLOSING VALVES.	
FREEBOARD DECK AIR PIPES TO DEEP OIL FUEL TANK,	4" DIA 1 OFF P.S. WITH GOOSE NECK	3'-0" ABOVE U.D.
- - - TO AFTER COFFEROAM	2½" DIA 1 OFF P+S	
- - - TO FORWARD DEPTANK	4"	
- - - TO FORWARD COFFEROAM	2½"	
FORECASTLE DECK	FORE PEAK	4" 1 OFF (PS) GOOSE NECK 1'-6" ABOVE FLOOR
AIR PIPES TO OIL FUEL TANKS	FITTED WITH GOOSENECKS WITH DOUBLE GAUZE AND SCREW COVERS,	PEAK & A.W. TANKS AIR PIPE GOOSE NECKS
CLOSED WITH WOOD PLUGS AND CANVAS COVERS.		

SOUNDING PIPES DECK PIECES 12" ABOVE DECK
WITH FLANGE TO TAKE EJECTOR BARBS & SCREW PLUGS
WITH CHAIN ATTACHMENT & BUSHES
(WHEN CARRYING GRAIN THESE TO BE REMOVED)
AND GOOSENECKS 3'-0" ABOVE DECK FITTED
4. 25' BUNKER PIPES SIMILAR TO ABOVE WITH
5" HIGH DECK PIECES. ✓

Particulars of Gangway Cargo and Coaling Ports :—

NONE FITTED.

Particulars of Scuppers and Sanitary Discharge Pipes :—

Particulars of Scuppers and Sanitary Discharge Pipes :-
 SCUPPERS FROM POOP DECK 3" OPEN ENDED PIPES DISCHARGING OVERBOARD 18" ABOVE UPPER DECK P & S SIDES. ✓
 2. SCUPPERS FROM STEERING GEAR SPACE IN POOP 2" DIA LEO OVERBOARD ABOUT 2'-0" BELOW U.D. WITH CHAINED SCREW PLUGS ON U.D. & N.R.S.V. ON SHIPS SIDE. ✓
 GALLEY SCUPPER 2" DIA. LEO OVERBOARD 3'-0" ABOVE L.W.L. WITH NON-RETURN VALVE ON SHIPS SIDE ✓
 SANITARY DISCHARGE PIPE FROM POOP DECK AND POOP SPACE ACCOMMODATION LEO OVERBOARD ABOUT 3'-0" ABOVE L.W.L. WITH EFFICIENT TRAPS ON INNER END AND STORM VALVES ON SHIPS SIDES. ✓
 SCUPPER FROM PASSAGE WAY IN POOP SPACE LEO TO BILGE IN MACHINERY SPACE WITH SCREW PLUG AND CHAINED CAP. ✓
 SANITARY DISCHARGES FROM MIDSHIP ACCOMMODATION LEO OVERBOARD IN BRIDGE SPACE ABOUT 9" ABOVE U.D. WITH STORM VALVES ON SHIPS SIDES AND EFFICIENT TRAPS ON INNER END. ✓
 5 SCUPPERS ON U.D. P & S SIDES THROUGH STRINGER ANGLE.

Particulars of Side Scuttles:—

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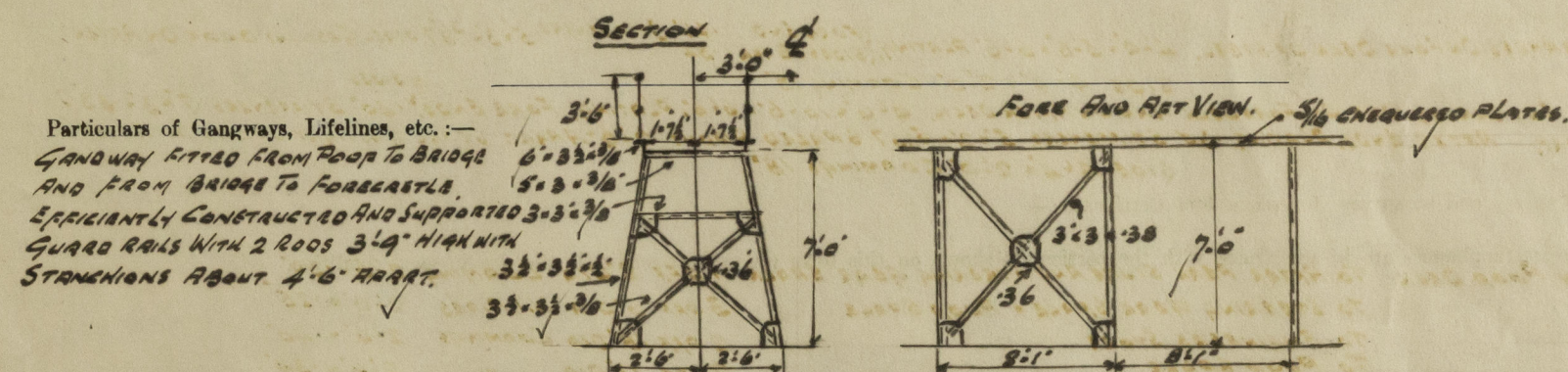
SIDE SCUTTLES IN POOP, BRIDGE AND FORECASTLE OF SUBSTANTIAL CONSTRUCTION FITTED WITH HINGED DEADLIGHTS.

Vertical distance of Sill of lowest Side Scuttle above top of keel

Particulars of Guard Rails :—

Particulars of Guard Rails:—

GUARD RAILS ON POOR BRIDGES & FORECASTLES 3 RDS 3'-6" HIGH WITH STANCHIONS ABOUT 4'-6" APART.
= " FREEBOARD DECK 3 - 3'-6" - " - " 4'-6" "
PART STEEL BULKHEAD AT ENDS OF EMBANKMENTS 3'-6" HIGH EFFICIENTLY CONSTRUCTED AND SUPPORTED.



Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well ...	<i>22 31'-8"</i> <i>32 31'-4"</i> <i>34 17'-3"</i> <i>46 33'-2"</i>	<i>3'-6"</i> <i>-</i> <i>-</i> <i>-</i>	<i>10 aft 2'-0" x 1'-9" 10 aft 2'-6" x 5"</i> <i>3 aft 2'-6" x 5"</i> <i>10 aft 2'-0" x 9"</i> <i>NONE</i>	<i>2</i> <i>3</i> <i>1</i>		<i>Open rails</i> <i>for 1/2 length</i>
Forward Well ...	<i>And open rails for more than half length of exposed portion of weather deck.</i>					<i>of the exposed weather deck</i>

State position of each freeing port { After Well:— *FF. 1'-6", 13'-9" B.S. 1'-0", 15'-9", 13'-4" 12" ABOVE DECK*
(F. and A. position and height above deck edge) { Forward Well:— *B.S. 5'-6"* *No*

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— *No SHUTTERS ON ROOS.*

Additional area where sheer is less than standard.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.									
Description of Hatchway		W.T. HATCHES ON UPPER DECK.							
Dimensions of Hatchway									
COAMINGS	Height above Deck								
	Thickness	Sides							
	Stiffeners	Ends							
	Brackets, Stays								
HATCH BEAMS	Number								
	Spacing								
	Scantling and Sketch								
	Bearing Surface								
FORE AND AFTERS	Number								
	Spacing								
	Unsupported Lengths								
	Scantling* and Sketch								
HATCH COVERS	Material								
	Thickness								
	How fitted								
	Bearing Surface								
Spacing of Cleats									
Number of Tarpaulins									
<p>*Are wood fore and afters steel shod at all bearing surfaces ?</p> <p>Are battens and wedges efficient and in good condition ?</p> <p>Are tarpaulins in good condition and in accordance with rule requirements ?</p> <p>Are lashings provided in accordance with rule requirements ?</p>									

Particulars of any special features :—

Endorsement at first survey and at surveys for renewal of Certificate :—

The fittings and appliances are in accordance with the particulars shown on this form (or as now modified) and are in good condition.



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Foundation