

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(CONDITIONS OF ASSIGNMENT.)

Index No. 37713
(For London Office only).

21 AUG 1944

F. 54

GLASSGOW REPORT No. 68749Ship's Name Empire SaturnPort of Survey Belfast and Glasgow

Official Number

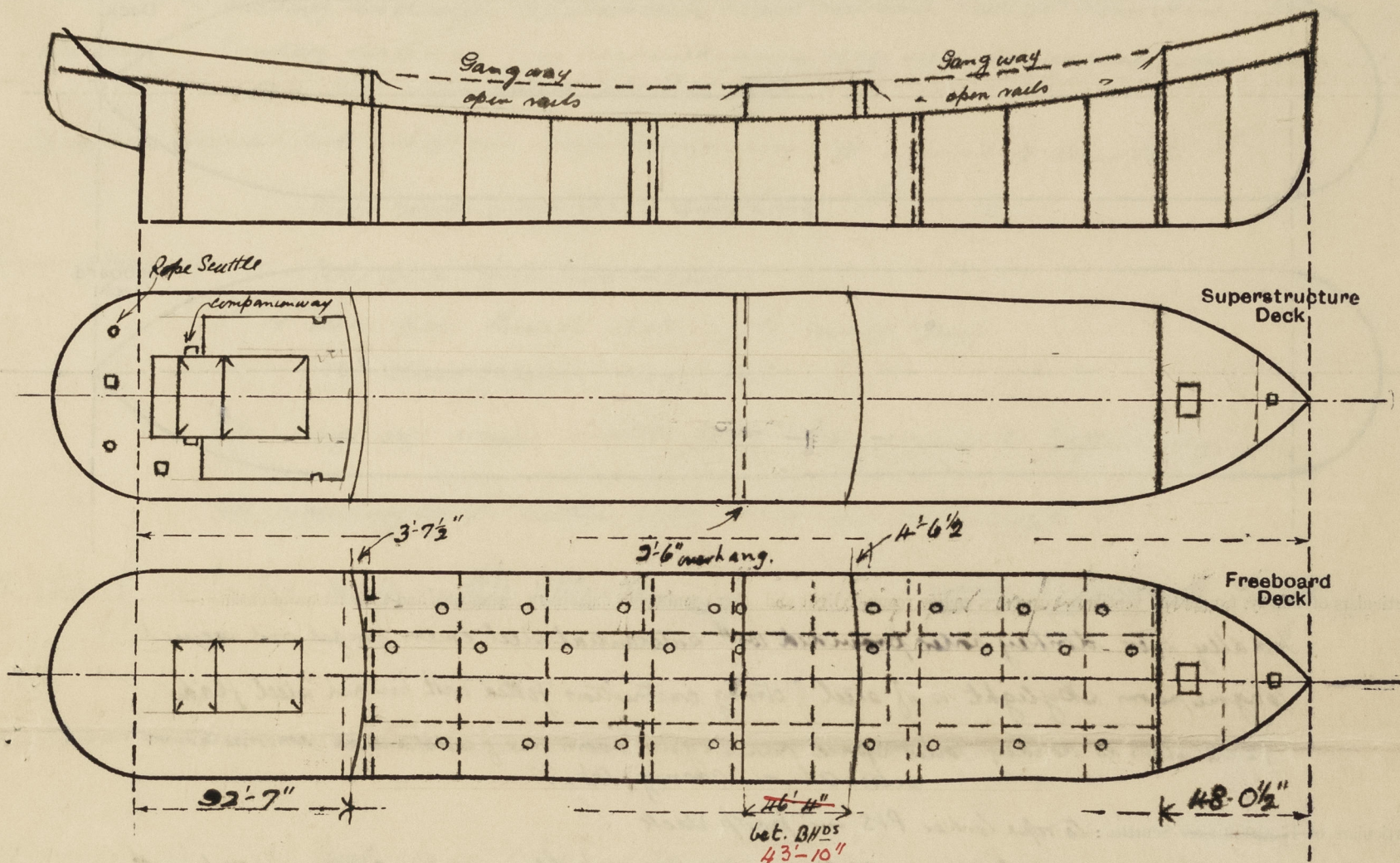
Surveyor's Signature

Wm. Baillie and W. J. PyleNationality and Port of Registry British, Belfast.

Date of Survey

during construction.

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 ...	44 welded		8 x 4 x 50 welded	27" 4 30"	welded T & B	20' 5" 0" x 2' 6"	18"	7' 6"
Raised Quarter Deck Bulkhead ...	✓							
Bridge, After Bulkhead ...	30 welded		6 x 7/16 welded	27" 4 30"	welded T & B	20' 5" 3" x 3' 0" 1' 5" 0" x 8' 0"	18"	7' 6"
Bridge, Forward Bulkhead ...	44 welded		8 x 4 x 50 welded	27" 4 30"	welded T & B	10' 5" 0" x 2' 6"	18"	7' 6"
Forecastle Bulkhead ...	30 welded		6 x 7/16 welded	24" 6 36"	none	10' 5" 0" x 4' 0" 1' 5" 0" x 2' 6" 10' 5" 0" x 3' 0"	18"	7' 6"
Trunk, Aft ...								
Trunk, Forward ...								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks ...	30	26	4 x 3 x 32	31	none	none when exposed		7' 6"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...								
Deckhouses on Flush Deck Ships ...								

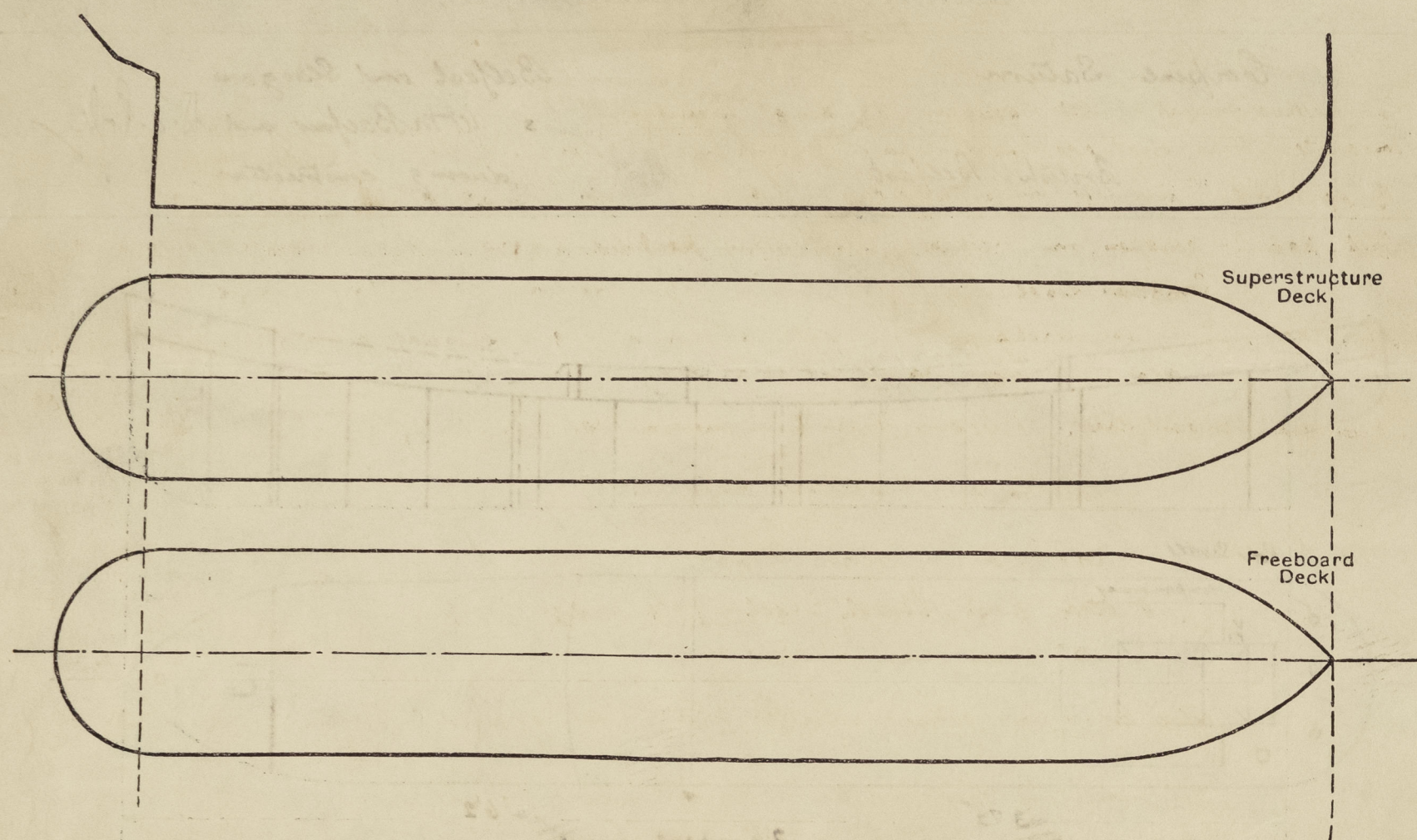
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	2 Hinged steel W.T. doors *
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead ...	one hinged steel W.T. door *; Two portable stiffened plates secured by hook bolts
Bridge, Forward Bulkhead ...	Hinged steel W.T. door *
Forecastle Bulkhead ...	one hinged steel W.T. door * (companionway), one hinged steel door, one portable stiffened plate secured by hook bolts
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	
Exposed Machinery Casings on Superstructure Decks ...	no openings
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	
Deckhouses on Flush Deck Ships ...	

* operated from both sides.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

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 :-



Particulars of fiddle, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing :-

Fiddle over donkey boiler provided with substantial steel covers hinged and secured ✓
 Engine room skylight is of steel of strong construction fitted with hinged steel flaps ✓
 Ventilator to donkey boiler space and in engine room are of substantial construction situated on casing top.

Particulars of Bulk-Header Scuttles :- to rope locker P.T.S. in poop deck ✓

The openings have a 9" B.A. coaming with flanged steel cover fitted with hemp packing secured by spindle, strong back and butterfly nut ✓

Particulars of Companionways :- One door in fore-castle to pump room 5' x 2' sill 18", door steel W.T. secured by toggles ✓
 Access to pump room (cargo) in strong steel deckhouse, one each well, plating .32 welded stiffeners ✓
 5' x 3" welded T spaced 27" to 30" door 30' x 58" sill 18" hinged steel W.T. secured by toggles ✓
 Door at side of poop companionway P.T.S. sill 18", door 26' x 63" hinged 1 3/4" Oregon pine, plating .30 ✓
 Stiff 3' x 2 1/2" x 30 about 30' apart.

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

On Fore-castle deck 7 @ 10" dia, 1 @ 8" dia, 2 @ 6" dia; coam 36" rule thickness to spaces in fore-castle and below freeboard deck 8 @ 1 1/4" dia 36" high to faint steel funt. ✓
 On Bridge deck :- 7 @ 6" dia coam 30" x 30" to spaces in bridge ✓
 On Poop deck :- 2 @ 10" dia; 6 @ 6" dia; coam 30" x 30" rule thickness to tween deck & steering gear ✓
 15 S.H.V. : 8' x 4" cast steel 30" to upper lower tween decks ✓
 Forewell :- 2 @ 3 1/2" dia demoh pesto vents to pump room efficiently supported ✓
 Aft well :- 2 @ 3 1/2" dia ✓
 Boat deck :- 6", 8", 10", 12" dia coam 30" x 30" rule thickness to poop tween decks ✓
 Coal ventilator in fore and poop provided with W.T. steel covers or wood plugs and canvas covers ✓

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

On fore-castle deck :- 1 @ 1 1/2" to fore peak; 1 @ 1 1/2" to deep tank 30' x 24" high 7 @ 2 1/2" to Magazine in fore. ✓
 On freeboard deck :- fore well 2 @ 3" to forward cofferdam carried up 7 ft on fore well & clipped through. ✓
 Aft well 2 @ 3" to after cofferdam; 2 @ 1 1/2" to ne first bunker, all carried up ✓
 Poop front well 2 @ 3" to poop cofferdam 6' x 6" high to cofferdam & 9' x 6" high to bunks. ✓
 On Poop deck :- 2 @ 2 1/2" to aft peak; 1 @ 2 1/2" to F.W. tanks; 1 @ 2 1/2" to main tank; 1 @ 2 1/2" to stem compartment ✓
 1 @ 2 1/2" to hull mm air 26" high 3 @ 3" dia about 4' x 5" high to let bil tanks in tween deck, clipped to rail. ✓
 On casing top :- Air pipes 2 1/2" to 4" dia from tanks in eng. space, height above casing top 18' x 24" ✓
 All air pipes furnished with canvas covers or wire gauze & hinged flaps at cofferdam air pipes

EMPIRE SATURN.

Particulars of Gangway Cargo and Coaling Ports :-

None

Particulars of Scuppers and Sanitary Discharge Pipes :-

From freeboard deck in wells, scupper cut through shestrake ✓
 Fore-castle space :- drainage from this space is by means 1" holes in fore well with outside flaps ✓
 Bridge space :- drainage from this space is by means 1" holes in fore well with outside flaps ✓
 Poop space :- scupper from freeboard deck within poop led overboard with storm valves at ship's side ✓
 Sanitary discharges led overboard below freeboard deck with storm valves at ship's side ✓
 Upper bridge Sanitary discharges from accommodation on bridge deck led overboard above freeboard deck with storm valves at ship's side. ✓
 Spaces below freeboard deck :- at aft end drain to engine room keels; forward to drain keels ✓
 storm valves of malleable cast iron ✓

Particulars of Side Scuttles :-

None below freeboard deck ✓
 8", 10" clear glass through shell in fore, bridge & poop ✓
 12" clear glass in deck house. ✓
 Also large size escape scuttles fitted where required by Defense regulations ✓
 All, including escape scuttles, fitted with hinged deadlights ✓
 a strongly constructed escape scuttle fitted thru shell in steering gear compartment with strongback. ✓

Vertical distance of S.H. of lowest Side Scuttle above top of keel none below freeboard deck ✓

Particulars of Guard Rails :-

in poop, bridge & fore-castle and between bulwarks in wells ✓
 3' x 8" high, 3 rails, stanchions 4' x 6" to 5' apart ✓

Particulars of Gangways, Lifelines, etc. :-

Fore and aft gangway in wells 7' x 9" high, channel stinger 6' x 3' x 3/8 P.T.S. connected by 3' x 3' x 3/8 transverse angles spaced 14' 0" apart. Gangway plating .32 with transverse strips welded to plating with nails, 2 each side. Gangway supported by bracing to deck 1 1/2" x 1 1/2" angles spaced 8' 0" apart and spread 5' x 3" transversely at deck. Supports braced transversely 3' x 3' x 3/8 angles diagonals and longitudinally by the 3 1/2" x 3 1/2" x 3/8 angles fitted diagonally in alternate spaces. ✓

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 120' x 14" ... at poop 15 ft at bridge 5 ft		3' 8"	3' 0" x 1' 3"	1	over 50% open rails	✓
Forward Well 120' x 8" ... at bridge 15 ft at fore 27 ft		3' 8"	3' 0" x 1' 3"	1	over 50% open rails	✓

State position of each freeing port ... (After Well :-

(F. and A. position and height above deck edge) (Forward Well :-

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :-

Additional area where sheer is less than standard.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.									
<div>Fore and Aft Deck</div> <div>Fore and Aft Deck</div> <div>Fore and Aft Deck</div> <div>Fore and Aft Deck</div> <div>Fore and Aft Deck</div> <div>Fore and Aft Deck</div> <div>Fore and Aft Deck</div> <div>Fore and Aft Deck</div> <div>Fore and Aft Deck</div> <div>Fore and Aft Deck</div>									
Description of Hatchway	Fore Peak	Fore Hold	to magazine	Cargo hold	Cofferdam	to fore peak	to fore peak	to fore peak	to fore peak
Dimensions of Hatchway	30" x 30"	8' x 8'	24" x 30"	4' 0" dia	24" x 18"	30" x 30"	30" x 30"	30" x 30"	30" x 30"
COAMINGS	9" Ba	30"	9" about 8"	10"	6" 5	9" Ba	9" Ba	9" Ba	9" Ba
Height above Deck	46	50	about 8"	3/4	46	46	46	46	46
Thickness	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sides	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ends	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stiffeners	✓	✓	✓	✓	✓	✓	✓	✓	✓
Brackets, Stays	✓	✓	✓	✓	✓	✓	✓	✓	✓
HATCH BEAMS	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spacing	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scantling and Sketch	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bearing Surface	✓	✓	✓	✓	✓	✓	✓	✓	✓
FORE AND AFTERS	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spacing	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unsupported Lengths	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scantling and Sketch	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bearing Surface	✓	✓	✓	✓	✓	✓	✓	✓	✓
HATCH COVERS	✓	✓	✓	✓	✓	✓	✓	✓	✓
Material	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thickness	✓	✓	✓	✓	✓	✓	✓	✓	✓
How fitted	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bearing Surface	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spacing of Cleats	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number of Tarpaulins	✓	✓	✓	✓	✓	✓	✓	✓	✓

*Are wood fore and afters steel shod at all bearing surfaces? ✓
 Are battens and wedges efficient and in good condition? ✓
 Are tarpaulins in good condition and in accordance with rule requirements? ✓
 Are lashings provided in accordance with rule requirements? ✓

Particulars of any special features:—

Guard rails fitted round cargo hatches.

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.

