

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

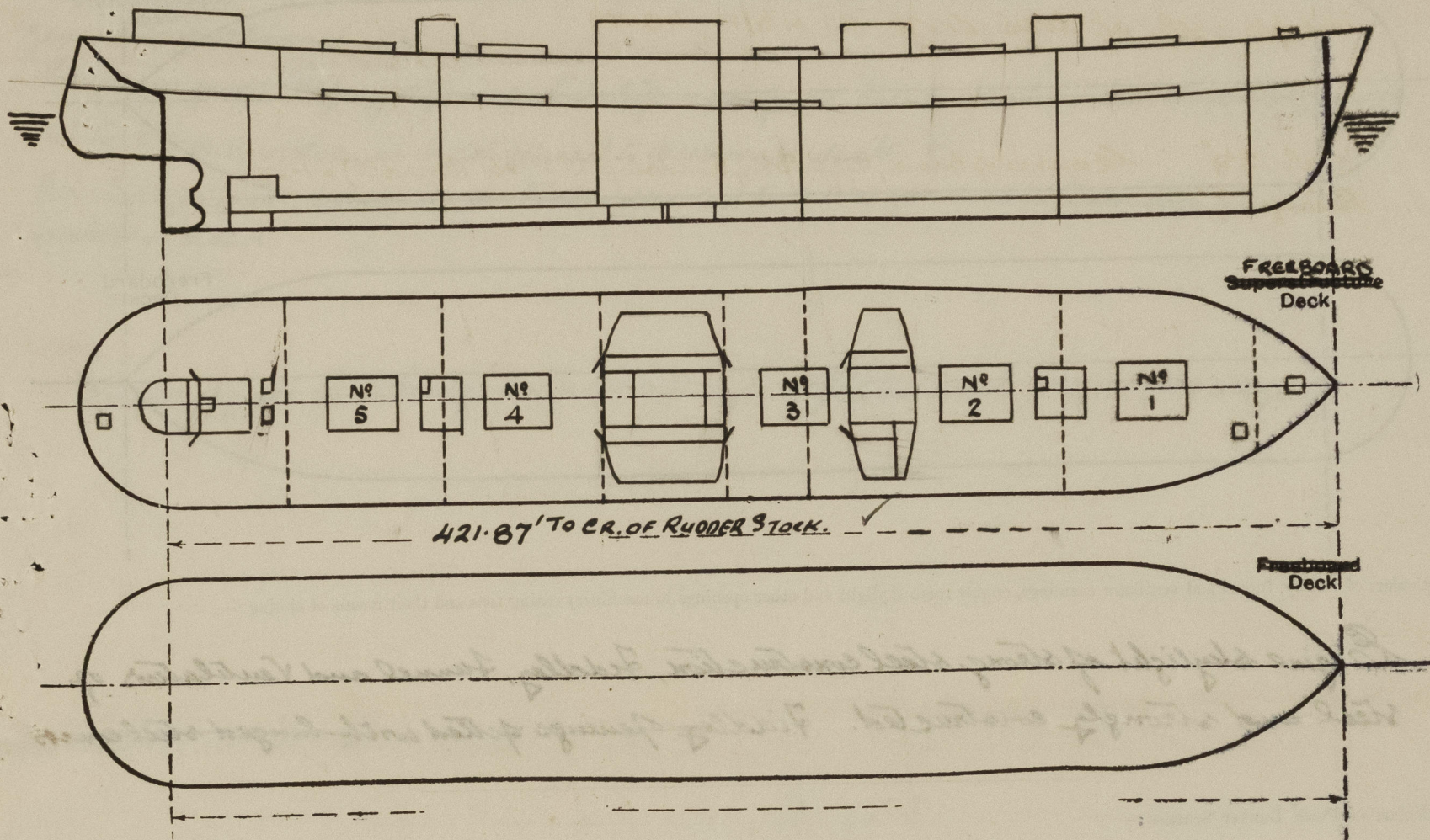
(CONDITIONS OF ASSIGNMENT.)

11 SEP 1941

RT. COPY.

Ship's Name "Empire Grenfell" Port of Survey Sunderland.  
 Official Number 169000 Surveyor's Signature H. F. H. Duncan  
 Nationality and Port of Registry British - Sunderland. 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 ...								
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead ...								
Bridge, Forward Bulkhead ...								
Forecastle Bulkhead ...								
Trunk, Aft ...								
Trunk, Forward ...								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks ...								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...								
Deckhouses on Flush Deck Ships ...	35	25	$\left\{ \begin{array}{l} 3 \times 3 \times 30 \text{ sides} \\ 6 \times 3 \times 30 \\ 4 \times 3 \times 30 \end{array} \right\}$	$\left\{ \begin{array}{l} 30" \\ 24" \end{array} \right\}$	Bulk. T. & B.	5' x 2'	22 1/2" 16"	7' 6"

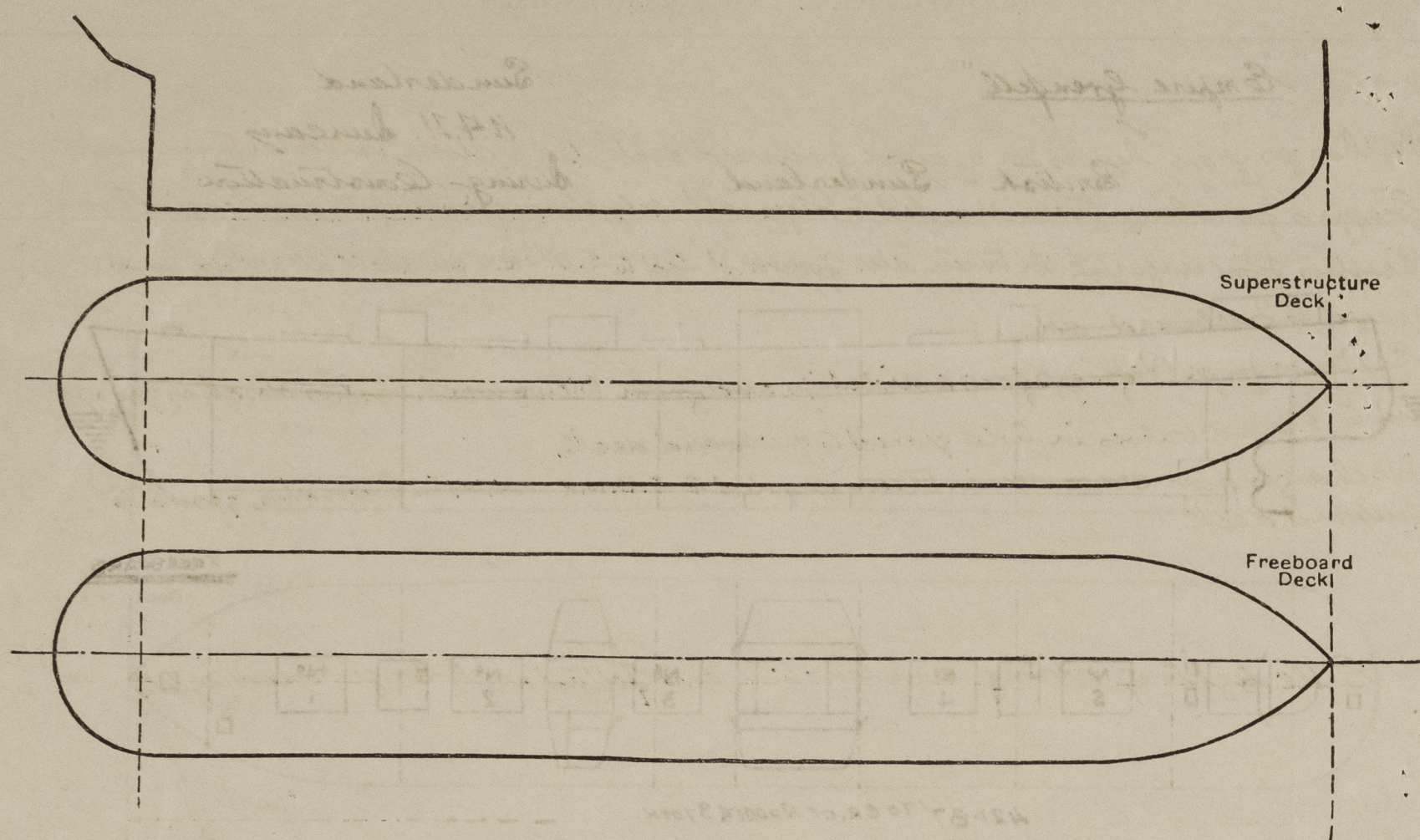
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead ...	
Bridge, Forward Bulkhead ...	
Forecastle Bulkhead ...	
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	
Exposed Machinery Casings on Superstructure Decks ...	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	
Deckhouses on Flush Deck Ships ...	Hinged Steel doors 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:—

Engine skylight of strong steel construction, Fiddle, Funnel and Ventilators of steel and strongly constructed. Fiddle openings fitted with hinged steel covers.

Particulars of Flush Bunker Scuttles:—

None. ✓

Particulars of Companionways:—

One to crew quarters aft, of steel plates and angles with hinged steel doors operated from both sides. ✓  
Sills 22½" high.

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

6	Cool Vents	24" diam.	Coamings 35" x 40" to No. 1 & 2 Holds & tween dks.
10	"	24" "	" 33 x 40 " aft end No. 2-3 & 4 Holds & tween dks.
4	"	12" "	" 33 x 34 " Crew aft
4	"	10" "	" 33 x 32 " Deep Tank
1	"	10" "	" 33 x 32 " Tunnel
2	"	10" "	" 33 x 32 " T. Dks Amidships
2	"	6" "	" 33 x 30 " Crew aft.
1	"	6" "	" 33 x 30 " Store aft.
2	"	6" "	" 33 x 30 " Steering gear
1	"	6" "	" 33 x 30 " Fore Peak.

20 S.D. Mushroom vents 6" diam. 9" high to Crew aft ✓  
1 6" dia vent to Winch room Coaming 36" x 34" ✓  
2 6" dia " Coaming 32" x 30" to D.F. space.

Cool vents closed by means of wood plugs and canvas covers.

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

All airpipes 30" in height to underside of bend and fitted with wood plugs and canvas covers, or with gauge. ✓

"EMPIRE GREENFELLS"

Particulars of Gangway Cargo and Coaling Ports:—

None.

Particulars of Scuppers and Sanitary Discharge Pipes:—

Discharges from houses on or above freeboard deck led to storm valves in tween decks ✓  
Scuppers from Cargo tween dks led to bilges with self closing valves fitted in Engine Room. ✓  
Scuppers from Magazine in tween dks forward led to S.D.N.R.V on shell at 2nd dk and geared to freeboard dk. ✓  
Scuppers from Refrig space amidships and from Crews wash basins discharges aft led to S.D.N.R. valves in hold geared to freeboard deck. ✓  
Discharges from crew's w.c.s in tween dks led to S.D.N.R. valves in tween dks, geared to freeboard deck. ✓

Particulars of Side Scuttles:—

Side lights of strong construction and fitted with hinged deadlights ✓

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

37'-0"

Particulars of Guard Rails:—

3'-6" high, 3 rods, stanchions spaced about 5'-0" apart. ✓  
Steel bulwarks fitted in way of accommodation and at fore end of vessel.

Particulars of Gangways, Lifelines, etc.:—

One 3" manilla life line supplied with fittings for same on Port and Starboard sides. ✓

## 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 ...	✓					
Forward Well ...	✓					

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.										
Description of Hatchway	...	...	...	No 1	No 2	FORE PEAK	CRUISER STERN	STORE AFT.	TUNNEL.	
Dimensions of Hatchway	...	...	...	31'6" x 22'	31'6" x 22'-0"	3'-0" x 2'-6"	2'-11" x 2'-11"	4'-6" x 4'-6"	2'-4" x 2'-3"	
COAMINGS	{	Height above Deck	...	30 1/2"	30 1/2"	15"	20"	30"	12 x 3 1/2 x 508	
		Thickness	{ Sides	...	.50	.50	.36	.44	.36	
		Ends	...							
		Stiffeners	...	B.A.	9 x 3 1/2 x 40	9 x 3 1/2 x 40	✓	✓	✓	✓
Brackets, Stays	...	SIDES	2	2	✓	✓	✓	✓		
		ENDS	2	2	✓	✓	✓	✓		
HATCH BEAMS	{	Number	...	5	5					
		Spacing	...	5'-3"	5'-3"					
		Scantling and Sketch	...							
		I	21" x 38"	19" x 36"	✓	✓	✓	✓		
9 x 36	9 x 36									
Bearing Surface	...	...	3 1/2	3 1/2						
FORE AND AFTERS	{	Number	...							
		Spacing	...							
		Unsupported Lengths	...							
		Scantling* and Sketch	...							
Bearing Surface	...	...	✓	✓	✓	✓	✓	✓		
HATCH COVERS	{	Material	...	CP.	CP.	W.T. Steel	CP.	CP.	W.T. Steel	
		Thickness	...	2 3/8	2 3/8	Covers.	2 3/8	2 3/8	Covers	
		How fitted	...	7 x 2	7 x 2	Secured	7 x 2	7 x 2	Secured	
		Bearing Surface	...	3"	3"	by	3"	3"	by	
Spacing of Cleats	...	...	...	24"	24"	Butterfly	18"	21"	Butterfly	
Number of Tarpaulins	...	...	...	2	2	Screws	2	2	Screws	
*Are wood fore and afters steel shod at all bearing surfaces? ✓										
Are battens and wedges efficient and in good condition? yes.										
Are tarpaulins in good condition and in accordance with rule requirements? yes.										
Are lashings provided in accordance with rule requirements? yes.										

Particulars of any special features:—

This vessel has been built to scantlings as approved for a draught of 18" in excess of that permitted by the rules for a C.S.S. vessel having a tonnage opening. The sheers forward have been increased in lieu of a forecastle.

*[Signature]*

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.