

THE BRITISH CORPORATION REGISTER OF  
SHIPPING AND AIRCRAFT

"SEASILVER" SURVEY FOR FREEBOARD

20/6/45  
STEAMER, TANKER, SAILER: <sup>S.M.</sup> Ex "Empire Seasilver"  
Nationality British Builders' Name and No. of Ship Shipbuilders Corporation Ltd (Type Bunch)  
Port of Registry NEWCASTLE Owners SEAWAY COASTERS LTD  
Official Number 169200 (Mans) BRITISH CHANNEL ISLANDS SHIPPING CO LTD.  
Gross Tonnage 517.81 Port and Date of survey Newcastle. DURING CONSTRUCTION  
Date of Build JULY 1945 Name of Surveyor J. M. Swanson  
Particulars of Classification BS \* (WITH FREEBOARD) Names of Sister Ships Empire Seagull - Empire Seabrook  
Type of Superstructures Closed Sull. Deck  
Trade of Ship  
Service Endorsement if any

ALL SEASONS

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line. (..... wood ..... steel)

TROPICAL FRESH WATER LINE above centre of disc

FRESH WATER LINE

TROPICAL LINE

WINTER LINE

WINTER NORTH ATLANTIC LINE

Corresponding Freeboard

8' 6 1/2"

8' 4"

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.

FRESH WATER

TROPICAL

WINTER

WINTER NORTH ATLANTIC

Corresponding Freeboard

Number of years recommended for load line certificate

DATE of ISSUE 31-11-45  
DATE of EXPIRY 30-7-50

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

Chief Surveyor

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the

14 July 1945



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Secretary

011869-011876-0156 '18



## COMPUTATION OF FREEBOARD

Length on summer load line 140'4" Moulded Breadth 27'0" Moulded Depth 18'0" Depth of Keel 4'0"  
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 15.3 ft Tons 1311  
 Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times .85} = .7915$   
 Displacement and tons per inch immersion in salt water at summer load line 738 @ 7.96 T.P.I.  
 Moulded depth 18'0" 18.000 Deduction for Fresh Water  $\frac{\Delta}{40T} = 2.32$  inches  
 Stringer Plate .25 .021 Round of Beam Correction  
 Sheathing on exposed deck T  $\left(\frac{L-S}{L}\right)$  - Ships Round of Beam STRAIGHT (AMOUNT 6" inches  
 Rise of floor (in sailers) - Standard Round of Beam  $\frac{B \times 12}{50} = 6.48$   
 Depth for Freeboard (D) 18.021 Difference .81  
 Table Depth 115 x 9.356 Restricted to  
 Depth Correction 1130 x 8.665 = 9.35 ON Correction  $\frac{\text{Difference}}{4} \times \left(1 - \frac{B}{L}\right) = 2.025 \times 1$   
 If restricted by superstructures 2.025 OFF

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle						
Trunk Aft						
„ Forward						
Tonnage Opening Aft						
„ „ Forward						
Totals						

Standard Height of Superstructure -  
 „ „ R.Q.D. -  
 Percentage covered S/L = -  
 „ „ E/L = -  
 „ from Table line A, B, (corrected for absence of forecastle if required)  
 Percentage from Table by interpolation for Bridge less than .2L if required = -  
 Deduction = -  
 Percentage from Table for Tankers (or Timber ships) = -  
 Deduction = -

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.				1	
$\frac{1}{2}$ L from A.P.				4	
$\frac{1}{2}$ L from A.P.				2	
Amidships				4	
$\frac{1}{2}$ L from F.P.				2	
$\frac{1}{2}$ L „ „				4	
F.P.				1	
				18	

Effective Mean Sheer =

Standard „ „ .05L + 5 =

Difference

Mean Actual sheer aft =

Mean Actual sheer forward =

Length of enclosed superstructure forward of amidships =

Length of enclosed superstructure aft of amidships =

Sheer Correction = Difference  $\times \left(75 - \frac{S}{L}\right) = 12.02 \times .75 = 9.015$  ON

If limited on account of midship superstructure =

„ to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft. =TABULAR FREEBOARD corrected for flush deck if required = 14.24 + 2.11 = 16.35Correction for co-efficient = 1472/136 = 17.70 DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction	9.35	-		
Deduction for superstructures	-	-		
Sheer correction	9.02	-		
Round of Beam correction	-	.20		
Correction for thickness of deck amidships	-	-		
Other corrections, scantlings, etc.	66.63	-		
Low Hatch Coamings Forward altered to 24"	85.00	.20		
ALL SEASONS Summer Freeboard in inches	85.00	.20	84.80	
Additional allowance for superstructures on				
Timber carrying ships				
Summer Timber Freeboard in inches				

Depth to Freeboard Deck in feet 18.021Summer Freeboard in feet 8.542Moulded Draught (d) 9.479 (d1)Addition for Keel .033Extreme draught 9'6" 9.512Deduction for Tropical and addition for Winter freeboard  $d/4 =$  ins.

Addition for Winter North Atlantic (if required) = ins.

Deduction for Tropical Timber Freeboard  $\frac{d1}{d} =$  ins.Addition for Winter „ „  $\frac{d1}{3} =$  ins.

„ „ N.A. Timber Freeboard (if required) = ins.

Form LL. 4.D.

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

### CONDITIONS OF ASSIGNMENT

SHIPS NAME

Empire SeasideOFFICIAL NUMBER 169200

Nationality and Port of Registry

British  
Newcastle

## PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
R.Q.D. „								
Bridge Aft Bulkhead								
„ Forward „								
Forecastle Bulkhead								
Trunk, Aft								
„ Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks	.30	.25	3 x 2 1/2 x 5/16 and 2 1/2 x 2 1/2 x 5/16	24 to 36	3 bolt connections upper and lower	See sketch of Profile and Decks	18 to 24	7.0
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances								
Deckhouses on flush deck ships								

## PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	
R.Q.D. „	
Bridge Aft Bulkhead	
„ Forward „	
Forecastle Bulkhead	
Exposed Machinery Casings on Freeboard or R.Q. decks	
Exposed Machinery Casings on superstructure decks	
Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances	
Deck houses on Flush Deck ships	

## PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well					
Forward Well					

State fore and aft position and height above deck to bottom of port, for each port

After Well

Forward Well

State whether freeing ports are fitted with shutters, bars or rails, and give particulars

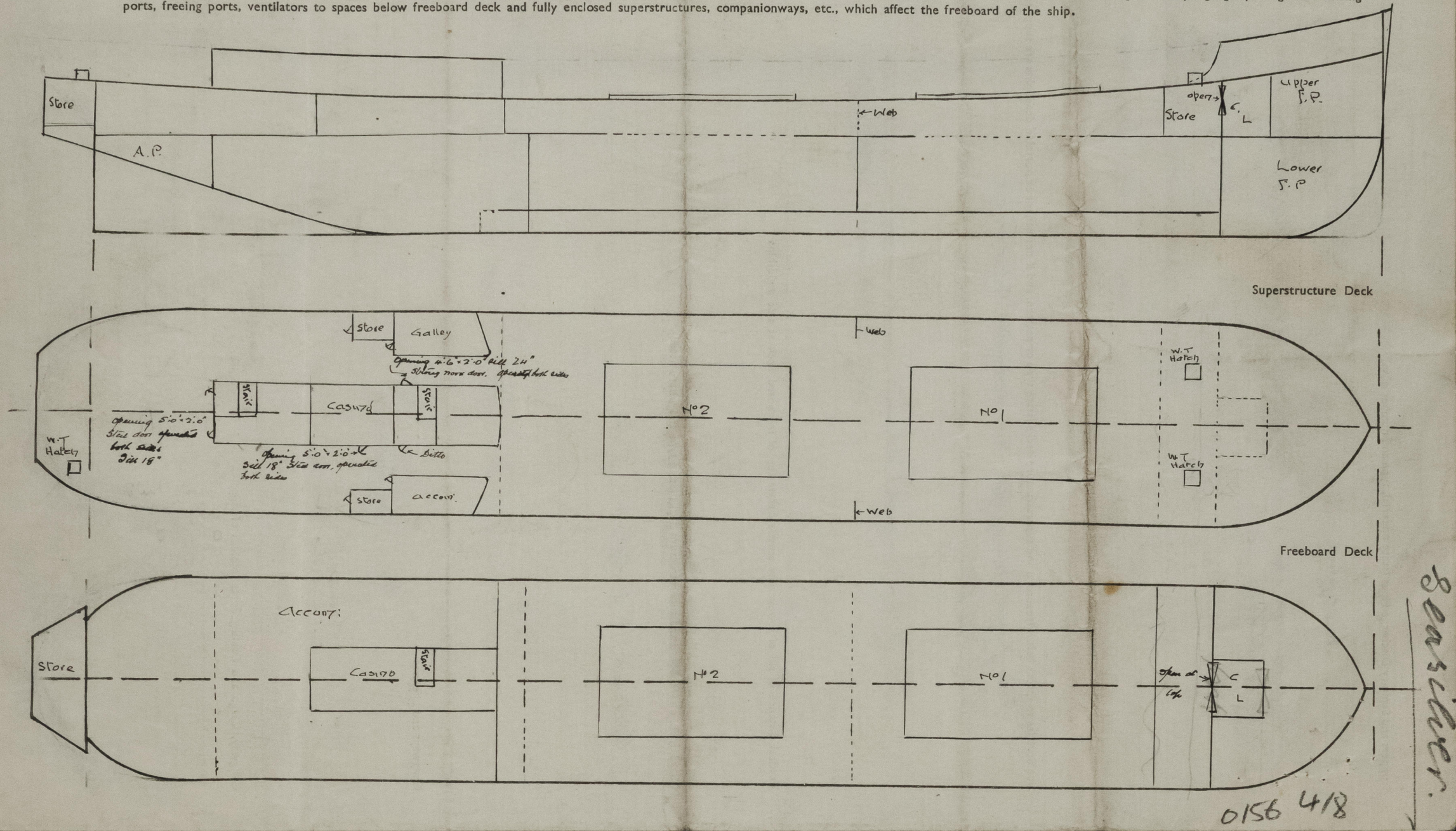
Give particulars of freeing port area, etc., on superstructure decks

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Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, freeing ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc., which affect the freeboard of the ship.



PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	← Upper Deck →		← Superstructure Deck →		Forward Store	After Store						
	1	2	1	2	2 off	1 off						
Dimensions of Hatchway	20'0" x 15'0"	20'0" x 15'0"	20'0" x 15'0"	20'0" x 15'0"	2'0" x 2'0"	1'10" x 2'2"						
COAMINGS	Height { steel { deck		9'		18'	18'						
	above { wood { deck		9'		18'	18'						
	Thickness { sides		3/16		5/16	5/16						
	ends		3/16		5/16	5/16						
Stiffeners	-	-	-	-	-	-						
Brackets or Stays	-	-	-	-	-	-						
HATCH BEAMS	Number		4		-	-						
	Spacing		4'0"		-	-						
	Scantling and Sketch		7 x 1/2"		-	-						
	Sketch		Sketch		-	-						
Bearing Surface and thickness of carriers or sockets	3	3	3	3	-	-						
FORE AND AFTERS	Number		-		-	-						
	Spacing		-		-	-						
	Unsupported lengths		-		-	-						
	Scantling and Sketch		-		-	-						
Bearing Surface and thickness of carriers or sockets	-	-	-	-	-	-						
HATCH COVERS	Material		W.W.		Steel	Steel						
	Thickness		2 1/2"		5/16"	5/16"						
	How Fitted		F x A		Secured by turnbuckles							
	Bearing Surface		3 1/2"		-	-						
Spacing of Cleats	-	-	-	-	-	-						
Number of Tarpaulins	-	-	-	-	-	-						

Are tarpaulins in good condition and in accordance with rule requirements?

Are lashings provided in accordance with rule requirements?

Are wood fore and afters steel shod at all bearing surfaces?

Are battens and wedges efficient and in good condition?



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Give full particulars of the following:—

Fiddle, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casing tops and their means of closing (state height of coamings, type of fiddle covers, and if these are permanently attached in their proper positions)

No fiddle opening Steel E.R. skylight  
Coamings #2 Height of casing 7'0"  
Vent coamings 2 1/2' deep  
Mushroom Vent 8' coaming with permanent cover

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

None

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

See sketch on this form

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

Steel Coams. 40' high above steel deck. Welded to deck. 1/2" bolts  
30 1/2' mod. 1/2" accomm.  
Mushroom Vent to acc. Coam 6' above wood deck. Screwed tops  
Goose-neck Vents to stores 20' above deck to opening  
Steel Coam on E.R. casing 2 1/2'

Closing arrangements: Wood plugs and canvas covers to hold vents

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

Goose-neck air pipes Minimum height to opening 20' above deck

Closing arrangements: Wood plugs and canvas covers

Seasilver.

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

No scuppers

Sanitary discharges about 11' above second deck, 3'-4" dia fitted with storm valves.  
Valves of gunmetal

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

Brass frames, ordinary type, with permanent C.I. deadlights  
All 10" clear glass.

Vertical distance of sill of lowest side scuttle below top of freeboard deck at side amidships

Guard Rails on freeboard and superstructure decks (state type and where fitted)

Open rail 3' 3" high with 3 rods.

Gangways and Lifelines

None. Crew houses aft.

Gangway, Cargo and Coaling Ports in sides of ship

None



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SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructure and Machinery Casings comply with rules?

Is provision made for protection of steering gear?

Is emergency steering gear provided?

Are efficient sockets and eyes for lashings provided and properly spaced?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Particulars of any Special Features in the construction of the Ship

*Composite principle, with longitudinal beams in holds. Chain plate & beams*

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

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition



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