

COMPUTATION OF FREEBOARD

Length on summer load line	140'-4 3/8"	Moulded Breadth	27'-0"	Moulded Depth	18'-0"	Depth of Keel	1 1/2"
Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth	1323	Tons	5. W. 47 15.3'				
Co-efficient of fineness for use with tables	$\frac{\Delta \times 35}{L \times B \times D \times 85} = 1984$						
Displacement and tons per inch immersion in salt water at summer load line	(9'6 1/2") 743 tons						
Moulded depth	18'-00	Deduction for Fresh Water	40 T = 2.35 = 2 1/2	inches			
Stringer Plate	1/4"	Round of Beam Correction	STRAIGHT CAMBER OF 6"				
Sheathing on exposed deck T	(L-S)	Ships Round of Beam	EQUIVALENT 7.29	inches			
Rise of floor (in sailers)	-	Standard Round of Beam	50	6.48			
Depth for Freeboard (D)	18'-02 1/2	Difference	81				
Table Depth	15	Restricted to					
Depth Correction	130 x 8.663	Correction	Difference x (1 - E/L) = 2025 x .8842				
If restricted by superstructures	9.35 ON.		= 179 OFF.				

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft	Mean Actual sheer forward	Length of enclosed superstructure forward of amidships	Length of enclosed superstructure aft of amidships	Shear Correction
Poop				1		LESS THAN 1.				
Raised Quarter Deck				4		LESS THAN 1.				
Bridge OPEN	32'-6"	F	7'-0"	2						
Forecastle				4						
Trunk Aft				2						
" Forward				4						
Tonnage Opening Aft				1						
" Forward				18						
Totals	32.5		16.25							

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft	Mean Actual sheer forward	Length of enclosed superstructure forward of amidships	Length of enclosed superstructure aft of amidships	Shear Correction
A.P.				1		LESS THAN 1.				
1/2 L from A.P.				4		LESS THAN 1.				
1/2 L from A.P.				2						
Amidships				4						
1/2 L from F.P.				2						
1/2 L " "				4						
F.P.				1						
				18						
Effective Mean Sheer										
Standard " " .05L + 5										
Difference										

TABULAR FREEBOARD corrected for flush deck if required = 14.25

Correction for co-efficient = 1.478 / 136 = 15.49 DRAUGHTS AND SEASONAL CORRECTIONS

Depth correction	9.35	-	35	Depth to Freeboard Deck in feet	18.021
Deduction for superstructures	-	35		Summer Freeboard in feet	8.542
Sheer correction	7.62	-	18	Moulded Draught (d)	9.479
Round of Beam correction				Addition for Keel	.042
Correction for thickness of deck amidships				Extreme draught	9'-6 1/4"
Other corrections, scantlings, etc.	10.55				9.521
ALL SEASONS	87.52	51	87.01	Deduction for Tropical and addition for Winter freeboard d/4 =	ins.
Summer Freeboard in inches	8'-6 1/2		102.00	Addition for Winter North Atlantic (if required)	ins.
Additional allowance for superstructures on				Deduction for Tropical Timber Freeboard d1	ins.
Timber carrying ships				Addition for Winter " " d1	ins.
Summer Timber Freeboard in inches				" " 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 SEABREEZE" OFFICIAL NUMBER 180437

Nationality and Port of Registry BRITISH. HULL

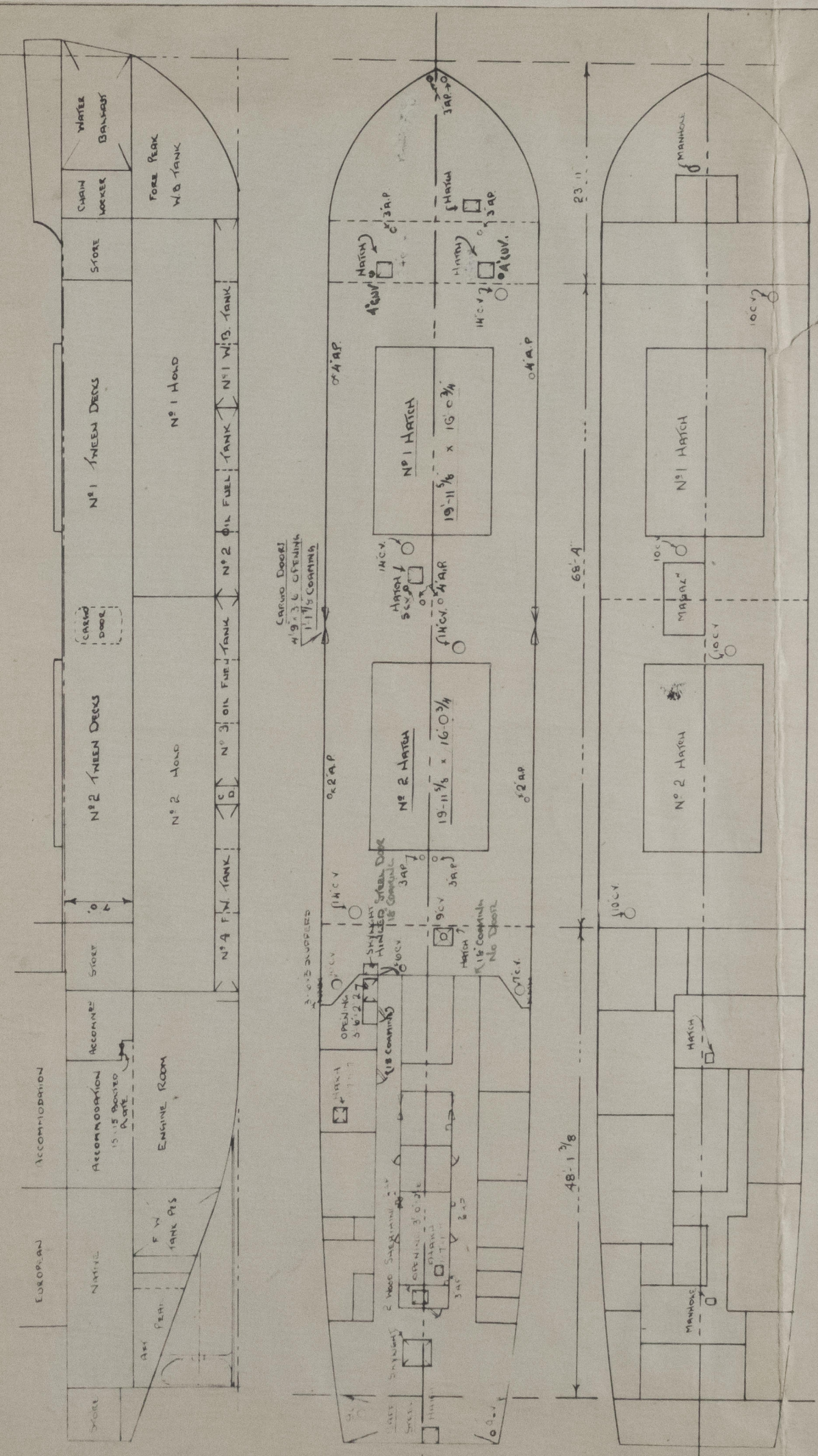
Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead							
R.Q.D. "							
Bridge Aft Bulkhead							
" Forward "							
Forecastle Bulkhead							
Trunk, Aft							
" Forward							
Exposed Machinery Casings on Freeboard or R.Q. Decks	18'-28"	25"	5 1/2" x 3/8" C.	1'-9"	4XTS. AT TOP WELDED AT BOTTOM 1.4'-11" x 1'-10" 5"	12'-6" x 2'-6" 7P 18"	7'-5 3/4"
Exposed Machinery Casings on superstructure decks							
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances							
Deckhouses on flush deck ships	18'-28"	25"	4" x 5/16"	1'-9"	WELDED STRAP AT TOP 1.2'-0" x 1'-6" 7P 1.4'-11" x 1'-10" 5"	12'-6" x 2'-6" 7P 18"	7'-2 3/4"

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	STEEL DOORS OPERATED BOTH SIDES
Exposed Machinery Casings on superstructure decks	
Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances	
Deck houses on Flush Deck ships	STEEL DOORS OPERATED BOTH SIDES

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				



PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway		2. HATCH STAYS		2. HATCH STAYS		2. HATCH STAYS		2. HATCH STAYS		2. HATCH STAYS		2. HATCH STAYS		2. HATCH STAYS		2. HATCH STAYS		2. HATCH STAYS	
Hatchway front to forward		Hatchway		Hatchway		Hatchway		Hatchway		Hatchway		Hatchway		Hatchway		Hatchway		Hatchway	
1'-9" x 2'-3"		2'-0"		2'-0"		2'-0"		2'-0"		2'-0"		2'-0"		2'-0"		2'-0"		2'-0"	
3/8"		3/8"		3/8"		3/8"		3/8"		3/8"		3/8"		3/8"		3/8"		3/8"	
Height { steel above }		Height { steel above }		Height { steel above }		Height { steel above }		Height { steel above }		Height { steel above }		Height { steel above }		Height { steel above }		Height { steel above }		Height { steel above }	
Thickness { sides }		Thickness { sides }		Thickness { sides }		Thickness { sides }		Thickness { sides }		Thickness { sides }		Thickness { sides }		Thickness { sides }		Thickness { sides }		Thickness { sides }	
Stiffeners		Stiffeners		Stiffeners		Stiffeners		Stiffeners		Stiffeners		Stiffeners		Stiffeners		Stiffeners		Stiffeners	
Brackets or Stays		Brackets or Stays		Brackets or Stays		Brackets or Stays		Brackets or Stays		Brackets or Stays		Brackets or Stays		Brackets or Stays		Brackets or Stays		Brackets or Stays	
Number		Number		Number		Number		Number		Number		Number		Number		Number		Number	
Spacing		Spacing		Spacing		Spacing		Spacing		Spacing		Spacing		Spacing		Spacing		Spacing	
Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch	
Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets	
Number		Number		Number		Number		Number		Number		Number		Number		Number		Number	
Spacing		Spacing		Spacing		Spacing		Spacing		Spacing		Spacing		Spacing		Spacing		Spacing	
Unsupported lengths		Unsupported lengths		Unsupported lengths		Unsupported lengths		Unsupported lengths		Unsupported lengths		Unsupported lengths		Unsupported lengths		Unsupported lengths		Unsupported lengths	
Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch		Scantling and Sketch	
Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets		Bearing Surface and thickness of carriers or sockets	
Material		Material		Material		Material		Material		Material		Material		Material		Material		Material	
Thickness		Thickness		Thickness		Thickness		Thickness		Thickness		Thickness		Thickness		Thickness		Thickness	
How Fitted		How Fitted		How Fitted		How Fitted		How Fitted		How Fitted		How Fitted		How Fitted		How Fitted		How Fitted	
Bearing Surface		Bearing Surface		Bearing Surface		Bearing Surface		Bearing Surface		Bearing Surface		Bearing Surface		Bearing Surface		Bearing Surface		Bearing Surface	
Spacing of Cleats		Spacing of Cleats		Spacing of Cleats		Spacing of Cleats		Spacing of Cleats		Spacing of Cleats		Spacing of Cleats		Spacing of Cleats		Spacing of Cleats		Spacing of Cleats	
Number of Tarpaulins		Number of Tarpaulins		Number of Tarpaulins		Number of Tarpaulins		Number of Tarpaulins		Number of Tarpaulins		Number of Tarpaulins		Number of Tarpaulins		Number of Tarpaulins		Number of Tarpaulins	