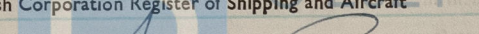


Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft  
on the 7<sup>th</sup> October 1942

  
[Secretary]

Lloyd's Register  
Foundation  
0121 610 13160 - 0036 1/2



COMPUTATION OF FREEBOARD

Length on summer load line 107' 6" Moulded Breadth 26' 0" Moulded Depth 13' 6" Depth of Keel 7'

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 512 Tons

Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times .85} = .5614$  Use .68.

Displacement and tons per inch immersion in salt water at summer load line 575 @ 5.3 TP1

Moulded depth 13.500 Deduction for Fresh Water  $\frac{\Delta}{40T} = 2.712$  inches

Stringer Plate .37 Round of Beam Correction .031

Sheathing on exposed deck T  $\frac{(L-S)}{L}$  Ships Round of Beam 1.00 inches

Rise of floor (in sailers) Standard Round of Beam  $\frac{B \times 12}{50} = 6.24$

Depth for Freeboard (D) 13.531 Difference .76

Table Depth  $\frac{L}{15} = 7.133$

Depth Correction  $\frac{L}{130} \times 6.398 = 6.398$

If restricted by superstructures  $\frac{5.2600N}{4} \times (1 - \frac{L}{L}) = .19 \text{ off.}$

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

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft
A.P.	14.7	14.7	14.7	1	14.7	more than 1
1/2 L from A.P.	9.21	9.21	9.21	4	36.84	
1/2 L from A.P.	9	9	9	2	18	
Amidships				4		
1/2 L from F.P.	4.5	4.5	4.5	2	9	
1/2 L from F.P.	19	19	19	4	76	
F.P.	42	42	42	1	42	
				18	285	
Effective Mean Sheer					15.833	
Standard " " .05L + 5					10.350	
Difference					5.483	

TABULAR FREEBOARD corrected for flush deck  $\frac{12.30}{12.30} = 12.30$

Correction for co-efficient = 12.30 DRAUGHTS AND SEASONAL CORRECTIONS

	+	-
Depth correction	5.27	-
Deduction for superstructures	-	-
Sheer correction	-	1.60
Round of Beam correction	-	.19
Correction for thickness of deck amidships	-	-
Other corrections, scantlings, etc.	5.27	1.79
Summer Freeboard in Inches $(1' 3\frac{1}{2}" ) =$	15.78	3.48
Additional allowance for superstructures on Timber carrying ships		
Summer Timber Freeboard in Inches		

Depth to Freeboard Deck in feet 13.531

Summer Freeboard in feet 1.292

Moulded Draught (d) 12.239

Addition for Keel .583

Extreme draught 12.976 12.822

Deduction for Tropical and addition for Winter freeboard  $d/4 = 3.509$  ins.

Addition for Winter North Atlantic (if required) 5.509 ins.

Deduction for Tropical Timber Freeboard  $\frac{d}{4} =$  ins.

Addition for Winter " "  $\frac{d}{3} =$  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

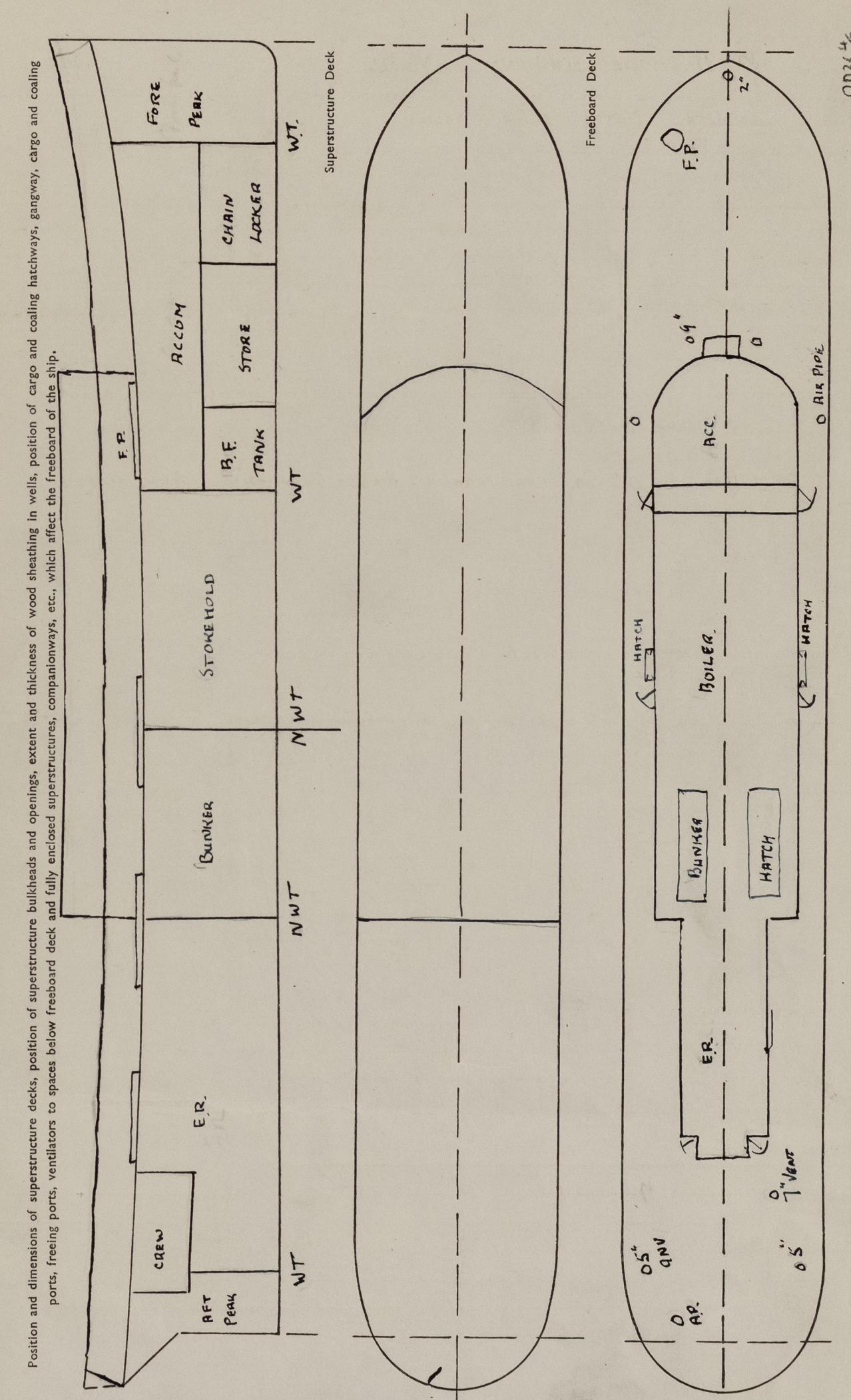
SHIPS NAME "EMPIRE PIKE" TUG. OFFICIAL NUMBER 168790

Nationality and Port of Registry BRITISH GOOLE.

	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 "	-	2.5	3" x 2 1/2" x 25'	24"	-	-	-	-
Forecastle Bulkhead	-	-	-	-	-	-	-	-
Trunk, Aft	-	-	-	-	-	-	-	-
Forward	-	-	-	-	-	-	-	-
Exposed Machinery Casings on Freeboard or R.Q. Decks	-	2.5	3 x 3 x .3	24"	-	1-3'-0" x 2'-0"	24"	8' 3/4"
Exposed Machinery Casings on superstructure decks	-	-	-	-	-	-	-	-
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances	-	-	-	-	-	-	-	-
Deckhouses on flush deck ships	.3	2.5	6" x 3 x 2 1/2"	24"	AKTS	4-4'-6" x 2'-0"	24"	7' 6"

	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
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well	1-28'-0"	1-43'-0"	1-63'-0" 1-77'-0"		
Forward Well			4-7'-0" x 6"	14 sq.	
State fore and aft position and height above deck to bottom of port, for each port			8" SILL.		
State whether freeing ports are fitted with shutters, bars or rails, and give particulars					
Give particulars of freeing port area, etc., on superstructure decks					



Number and description of Hatchway from Forward	Dimensions of Hatchway	Height of steel deck above wood	Thickness of sides	Stiffeners	Brackets or Stays	Number	Spacing	Scantling and Sketch	Bearing Surface and thickness of carriers or sockets	Number	Spacing	Unsuppored lengths	Scantling and Sketch	Bearing Surface and thickness of carriers or sockets	Material	Thickness	How Fitted	Bearing Surface	Spacing of Cleats	Number of Tarpaullins
Cross Bunkers	8'-6" x 5'-3"	4'-0"	3/8"	-	-	-	-	-	WOOD 3"	-	-	-	-	-	WOOD 3"	THWARTSHIP	3"	24"	TWO	
Side Pockets	3'-0" x 1'-3"	2'-0"	3/8"	-	-	-	-	-	WOOD 3"	-	-	-	-	-	WOOD 3"	F.L.A.	3"	24"	TWO	

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

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