

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 TPI

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

Stringer Plate .37 Round of Beam Correction

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

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

Depth for Freeboard (D) 13.531 Difference .76

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

Depth Correction $\frac{L}{430} \times 6.398 = 6.398$ Correction Difference $\frac{1}{4} \times (1 - \frac{L}{430}) = .19$ off.

If restricted by superstructures

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

Measured from top of raked keel.

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	41	20.7	41	1	41
1/2 L from A.P.	21	9.21	21	4	96
1/4 L from A.P.	9	2.28	9	2	18
Amidships				4	
1/4 L from F.P.	4.5	1.55	4.5	2	9
1/2 L "	19	18.42	19	4	76
F.P.	42	41.4	42	1	42
				18	285

Effective Mean Sheer = $\frac{15.833}{10.350} = 1.53$

Standard " " .05L + 5 = $\frac{10.350}{5.483}$

Difference = 1.6 off

TABULAR FREEBOARD corrected for flush deck 12.30

Correction for co-efficient = 12.30

DRAUGHTS AND SEASONAL CORRECTIONS

Depth correction	Summer Freeboard in feet
5.27	13.531
	1.292
	12.239
	.583
	12.822
	12.822
	15.78

Summer Freeboard in Inches $(1.312) = 15.78$

Additional allowance for superstructures on Timber carrying ships = /

Summer Timber Freeboard in Inches = /

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.

PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

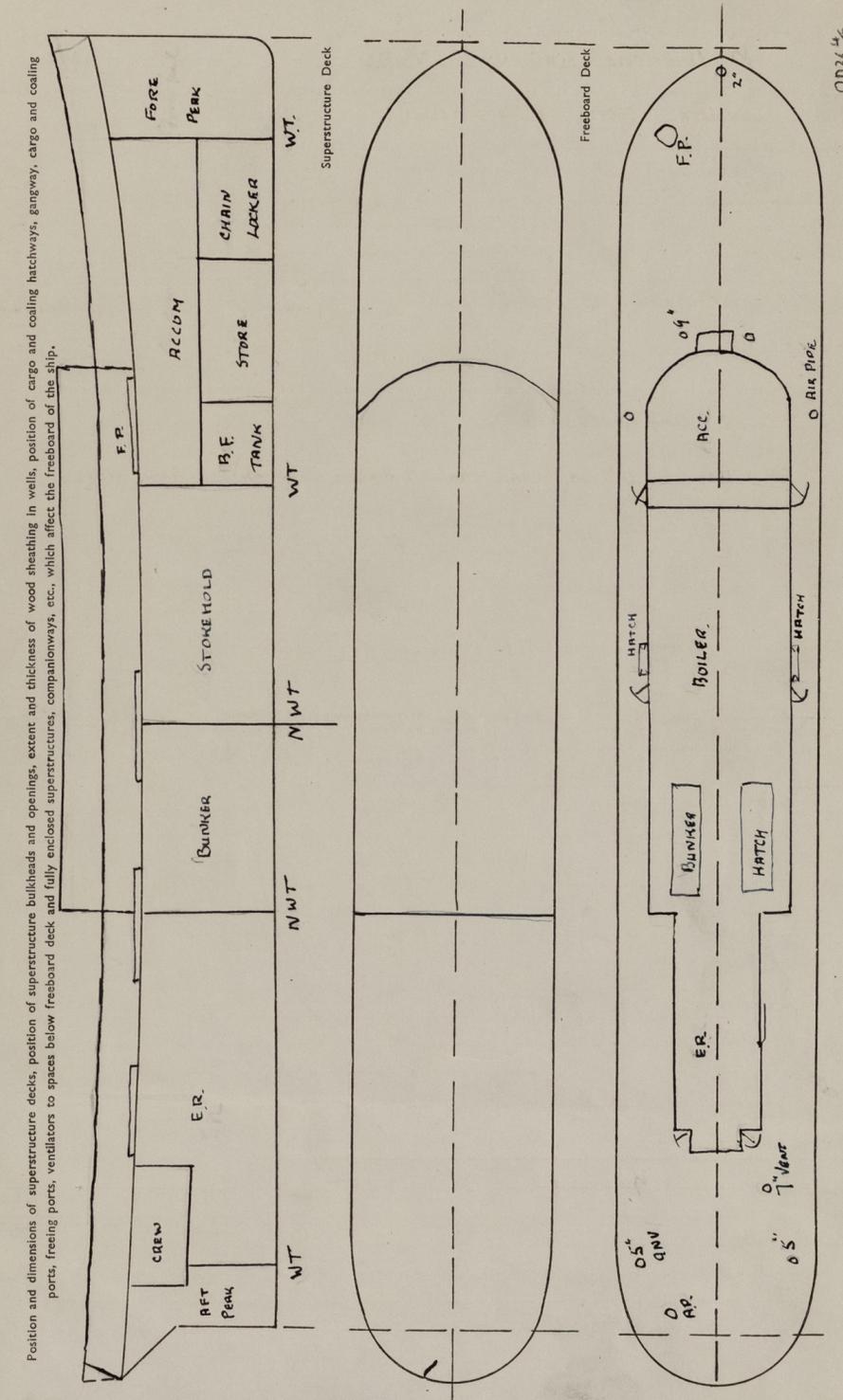
	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	-	-	-	-	-	-	-	-
R.Q.D. "	-	-	-	-	-	-	-	-
Bridge Aft Bulkhead	-	-	-	-	-	-	-	-
Forecastle Bulkhead	-	-	-	-	-	-	-	-
Trunk, Aft	-	-	-	-	-	-	-	-
Forward	-	-	-	-	-	-	-	-
Exposed Machinery Casings on Freeboard or R.Q. Decks	-	.25	3" x 2 1/2" x 25'	24"	-	-	-	-
Exposed Machinery Casings on superstructure decks	-	.25	3" x 3" x 3	24"	-	1-3'-0" x 2'-0"	24"	8'-6"
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances	-	-	-	-	-	-	-	-
Deckhouses on flush deck ships	.3	.25	6" x 3 1/2" x 8'	24"	BKTS	4-4'-6" x 2'-0"	24"	7'-6"

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

Poop Bulkhead	-
R.Q.D. "	-
Bridge Aft Bulkhead	-
Forecastle Bulkhead	-
Exposed Machinery Casings on Freeboard or R.Q. decks	HINGED 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	HINGED 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	1-28'-0"	1-43'-0"	1-63'-0"	1-77'-0"	14 sq.
Forward Well			4-7'-0" x 6"		
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					



PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	Dimensions of Hatchway	Height of steel deck above	Thickness of sides	Stiffeners	Brackets or Stays	Number Spacing	Scantling and Sketch	Bearing Surface and thickness of carriers or sockets	Number Spacing	Unsupported lengths Scantling and Sketch	Bearing Surface and thickness of carriers or sockets	Material Thickness How Fitted	Number of Cleats	Number of Tarpsails
Cross Bunkers	8'-6" x 5'-3"	4'-0"	.38"	-	-	-	-	WOOD 3" THwartsHIP	-	-	-	WOOD 3" THwartsHIP	-	-
Side Pockets	3'-0" x 1'-3"	2'-0"	3/8"	-	-	-	-	WOOD 3" F.L.A.	-	-	-	WOOD 3" F.L.A.	-	-

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

Are hatchways provided in accordance with rule requirements? YES

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

Are battens and wedges efficient and in good condition? YES

0036 28

0036 38

0036 58