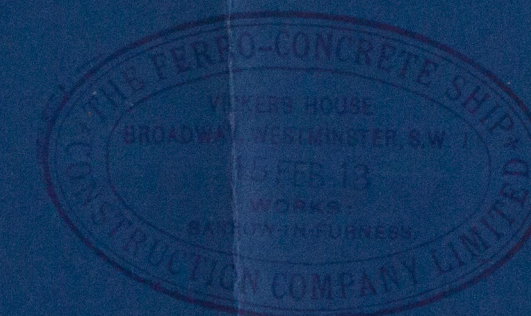


— FERRO-CONCRETE CARGO BOATS Nos 99, 100 & 101. —

DIMENSIONS: 205'-0" x 32'-0" x 19'-6"

TABLE OF BENDING MOMENTS AND STRESSES ON TRANSVERSE FRAMING (3'-0" APART)

NOTE:— ALL TABLED Mb ARE FOR ONE FOOT LENGTH OF SHIP.
MODULUS OF SECTIONS ARE ALSO FOR ONE FOOT LENGTH OF SHIP.



CONDITIONS TAKEN	Nº 1 NORMAL DRAFT 15'-0" (STILL WATER) DECK LOAD 200 LBS. PER SQ. FT. UNIFORM LOAD IN HOLD GIVING 396 LBS. PER SQ. FT. UPWARD PRESSURE ON BOTTOM TWO ROWS OF PILLARS.	Nº 2 SHIP ON WAVE CREST DRAFT 18'-6" DECK LOAD 200 LBS. PER SQ. FT. HALF AVERAGE LOAD IN HOLD GIVING 740 LBS. PER SQ. FT. UPWARD PRESSURE ON BOTTOM TWO ROWS OF PILLARS.	Nº 3 SHIP IN DRY DOCK IN LIGHT CONDITION SUPPORTED ON CENTRE KEEL BLOCKS. TWO ROWS OF PILLARS.	Nº 4 SUMMARY OF MOST SEVERE BENDING MOMENTS IN NOS 1, 2 & 3	Nº 5 SHIP IN WAVE HOLLOW DRAFT 10'-0" DECK LOAD NIL FULL LOAD IN HOLD CONCENTRATED BETWEEN PILLARS. TWO ROWS OF PILLARS.	Nº 6 APPROX INCREASE OF BENDING MOMENTS DUE TO ROLLING STATIC ANGLE (45°)	Nº 7 SUMMARY OF MOST SEVERE BENDING MOMENTS WITH ADDITIONAL BENDING MOMENT DUE TO ROLLING ADDED = Nº 4 + 6	MODULUS OF SECTIONS FRAMES, FLOORS ETC. IN INCH ³ DIVIDED BY FRAME SPACING.		STRESS FOR FERRO- CONCRETE SHIP STILL WATER LOADED COND. AS PER Nº 1.	STRESS FOR FERRO- CONCRETE SHIP EXTREME CONDITIONS AS PER Nº 7
	Mb	Mb	Mb	Mb	Mb	Mb	Mb	STEEL SHIP Z	FERRO-CONCRETE SHIP Z		
CENTRE OF TRANS. FLOOR	14.5 TON FT	28.5 TON FT	24.5 TON FT	+ 30.0 TON FT	- 23.0 TON FT	-	30.0 TON FT	40 INCH ³	40.6 INCH ³	14.5 TON FT = 4.3 TONS SQ. INS.	30.0 TON FT = 8.8 TONS SQ. INS.
CORNER OF BILGE	8.0 TON FT	13.2 TON FT	2.5 TON FT	13.0 TON FT	1.0 TON FT	4.0 TON FT	17.0 TON FT	40 "	33.0 "	8.0 " = 2.9 "	17.0 " = 6.18 "
CENTRE OF FRAME	2.5 TON FT	3.8 TON FT	1.0 TON FT	4.0 TON FT	+ 4.0 TON FT	2.0 TON FT	6.0 TON FT	5.0 "	10.9 "	2.5 " = 2.75 "	6.0 " = 6.6 "
CORNER OF DECK	1.8 TON FT	2.5 TON FT	.9 TON FT	2.5 TON FT	.6 TON FT	4.0 TON FT	6.5 TON	9.9 "	18.0 "	1.8 " = 1.2 "	6.5 " = 4.3 "
BEAM AT PILLAR	2.3 TON FT	2.5 TON FT	.6 TON FT	2.5 TON FT	.4 TON FT	-	2.5 TON FT	1.2 "	4.9 "	2.3 " = 5.6 "	2.5 " = 6.6 "
BEAM AT CENTRE	1.8 TON FT	2.0 TON FT	.4 TON FT	2.0 TON FT	.6 TON FT	-	2.0 TON FT	1.2 "	2.73 "	1.8 " = 7.9 "	2.0 " = 8.8 "



Vickers Cargo Steamer

Table of Bending Moments
etc.

RETAIN



6120-27219

© 2020

Lloyd's Register
Foundation