

DIMENS L. 404'-0" x 55'-6" x  $\begin{cases} 27'-10" \text{ TO SECOND DECK} \\ 36'-10" \text{ TO UPPER DECK.} \end{cases}$

SCALE 1/2"=1 FOOT

THE GREENOCK DOCKYARD CO. LTD.  
GREENOCK

LLOYDS NUMERALS.		
$L$	$404' D$	$35.833' L \times D$
$404'$	$35.833'$	$= 14476$
$L \times (B+D) =$	$404' \times (55.5' + 35.833')$	$= 36898$
$L/D$	TO UPPER DECK	$10.96$
$L$	DEPTH	$23.64$ (for framing)

UPPER DECK.

SYNTER 58" x 58" for 1/4" to 39" 42" ✓

PLATING 54" for 1/4" to 36" - 38" for 1/4" to 36" BETWEEN OPENINGS

42" ADJUST OPENINGS

SYNTER BUTT 38" to 2R WHERE NOT ENGAGING - 42" 7/8" RIS at 3" 6" CRS

PLATING BUTTS 38" to 1R - 2R BETWEEN HATCHES 7/8" RIS SAVED 3" 6" CRS

LANDINGS (INCL. STE.) 3" 7/8" 4" CRS. *See Plan Table 11.*

UPPER DECK.

BEAMS	9/2" x 3/2" x 49 B.A. O.B.S.	31" SPACING	KNEES	28" x 47.5"	6-7/8 RVS
CARLINGS	7/2" x 3/2" x 43 B.A. O.B.S.	31" SPACING	KNEES	22 1/2" x 47.5"	7/8 R
BEAM RIVETING	7/8 RVS	6 1/4" CRS.	OR (EQUAL NUMBER MULTIPLE)		

SECOND DECK.

STRINGER 47 $\frac{1}{2}$ " 40" FOR 1/2 L TO 36" - 34" AT ENDS BUTTS 2 R. P.B.A

PLATING .89" FOR 1/2 L TO 33" - 34" FOR 1/2 L TO 30" BETWEEN OPENING

PLATE BUTTS 2 R TO 1 R 3/4" RVS. @ 3" CRS.

LANDINGS S R 3/4" R 3 3/8" CRS.

**SECOND DECK.**

BEAMS $11 \times 3 \frac{1}{2}$ @ 6' B.A. @ 3' SPACING KNEES $33 \times 48$ 8'- $\frac{7}{8}$ RVS
CARLINGS $8 \times 3 \times 42$ BA @ 3' SPACING KNEES $24 \times 48$ 5'- $\frac{7}{8}$ RVS
BEAM RIVETS $\frac{3}{4}$ RVS 5" CRS. OR (EQUAL NUMBER MULTIPLE)

STRINGER ANGLE  $61^{\circ} 61' 59''$  TO  $42^{\circ}$   
2 ROWS  $78'$  RIS SPACED  $4\frac{3}{8}'$  REELED  
WHERE EXPOSED, STRINGER CHOCKS IN PLACE  
 $3\frac{1}{2} \times 3\frac{1}{2} \times 42"$ . STRINGER BAR  $3 \times 3 \times 42"$

STRINGER CHOCKS  $3\frac{1}{2} \times 3\frac{1}{2} \times .41$  TO  $.34$   
 $3/4$ " RYS AT  $5\frac{1}{4}$ " CRS. SHELL  $7/8$ " RYS AT  $6\frac{1}{4}$ " CRS  
 CEMENT ANGLE  $3 \times 3 \times 40$  -  $34$  AT ENDS.

BOTTOM & SIDE SHELL

BOTTOM AND SIDE 9/16" FAL TO 4 1/2" IN WDS

3 BOTTOM STRAWS 1/2 TO COLLISION SURFACES

BUTTS 3R 7/8 IN 3/16 CDS LAMINOS 2R

7/8 IN 4R AT 3/16 CDS (4RS AT 1/2 SPACE TRYSX 27 SPACE

IN EACH ROW FOR ALL SHELL)

SIDE SHELL .59 FOR 1/2 TO 4 1/2

BOSS .68

BUTTS 3R 7/8 IN AT 3/16 CDS

LAMINOS 0 R 7/8 IN AT 3/16 CDS

TOP END UNDERSTRAVE .08" .64" .46"

STRATE BELT .50" 61 .64

BUTTS 4R 10/32 IN 0.4778 7/8 IN AT 3/16 CDS

LAMINOS 2R 7/8 IN 3/16 CDS

POURFEASIBLE SIDE PLATING .42"

BUTTS 1R 7/8 IN 3/16 CDS LAMINOS 5R 7/8 IN 3/16 CDS

SEE PROFILE & DECK PLIN FOR  
INCREASES TO SIDE SHELL IN WAY  
OF EOPB AND STIFFENING

**FRAMES**

5584 IN HOLDS AT 3' SPACING EXTENDING TO 8<sup>TH</sup> DECK. 12' 8 1/2" 53' 8" 65' 8" 63' DEEP TAN ENDS. THREE DECK FRAMES G 3' 3 1/2" 32.8 A. ON EVERY FRAME SCARFED TO MAIN FRAMES

IN COAL BUNKERS. 4' 11 1/2" 48.4 A. REV. BUA AT MATCH ENDS WITH GUSSET AT DECK.

FORECASTLE 7' 39 1/2" 35.8 A. EXTENDING TO UPPER 5<sup>TH</sup> DECK. ALTERED FORECASTLE INTERMEDIATE FRAMES A SCARFED AT UPPER DECK. FORE PEAK FRAMES 7' 39 1/2" 48.8 A. AT 26' FRAME SPACING CUT AND BKT.

7' 31 1/2" 48.8 A. TO UPPER FORECASTLE DECKS. ALTERN.

3' 73 1/2" 48.4 A. TO UPPER DECK CUT & BKT. AT W. PLT.

HOLD FROM 1/30' FLOOR TO FIRM 152. 12' 31 1/2" 55.4 A. PORTING 14 1/2' 20.0 D.

8' 19 1/2" 53 1/2" 81' SIDE FRAMES IN CONJUNCTION WITH SIDE STRINGERS. (SEE DETAIL

12' 31 1/2" 48.4 A. 140' SIDE FRAMES IN CONJUNCTION WITH 7' 19 1/2" 48.8 CDS.

SHELL 7' 19 1/2" 48.8 CDS

12' 31 1/2" 48.4 54' 8" 66.8 A.

[illegible]

FRAME  
 42"  
 7'x7' .55" O.A.  
 STRINGER FACE BAR  
 6'x3 1/2" .40"  
 4-7/8" RIV THRU REV FR

### DETAIL OF STRINGER



Lloyd's Register  
Foundation

LIST OF ITEMS	INCREASED ABOVE	LYOYDS SCANTLINGS	BY OWNERS
ITEM		OWNERS.	
CENTRE GIRDER VERT. ANGLES	3/16 1 3/4 " 53 85	3/16 3/4 " 625 85	
CENTRE GIRDER TO KEEL	2 1/4 " 59 "	4 1/2 " 68 6 8 8 5	
CENTRE GIRDER TO TANK TOP	3/16 3 3/4 " 63 85	3/16 3 3/4 " 70 85	
" " "	" "	3/16 3 3/4 " 625 85	
SKELETON FLOOR FRAMES "	7 1/2 3/4 " 53 8 5	7 1/2 3/4 " 59 8 5	
" " REV FRAMES	3/16 3 1/4 " 43-83 85	7 1/2 3 3/4 " 58 8 5	
" " INTS STRUTS	6 1/2 3 1/4 " 43-59 85	7 1/2 3 3/4 " 52 8 5	
" " STRENGTH	11 3/16 3 1/4 " 46-56 85	11 3/16 3 1/4 " 46-56 85	
TANK TOP OR STAKE.	5/16 5 " 57 85	5/16 5 " 63 85	
TANK TOP PLATING	5/16 5 " 57 85	5/16 5 " 63 85	
TANK MARGIN	39 50 " 59 8 5	39 50 " 60 8 5	
W.T. FLOORS	.50 " 57 8 5	.50 " 57 8 5	
" " FRAME BAR	3/16 3 1/2 " 52	3/16 3 1/2 60 8 5	
FLOORS GIRDERS & BATS	.41 " 51 85	.41 " 47 8 5 57 8	
FLOOR BOUNDARY BARS	3/16 3 1/2 " 43-58 85	3/16 3 1/2 " 43-58 85	
" " "	" "	3/16 3 1/2 " 50 8 5	
GIRDER VERT ANGLE TO FLOOR	3 1/2 3 3/4 " 49 85	3 1/2 3 3/4 " 60 8 5	
FRAME BATS	.48 " 58 8 5	.48 " 68 8 5 52 8	
OUTSIDE MARGIN ANGLE	4B-58 85	5 1/2 4B-64 8 5	
" " "	" "	5 1/2 " 52 8 5	
ANGLE GUSSETS	3/16 1 3/4 " 41-51 85	3/16 1 3/4 " 41-51 85	
" " "	" "	6 1/4 " 48 8 5 8 5	
INSIDE MARGIN ANGLE	3/16 1 3/4 " 43-59 85	3 1/2 1 3/4 " 43-50 85	
" " "	" "	GO 85	
MARGIN PLATE LANDINGS	SINGLE RIVETS	DOUBLE RIVETS	
LANDINGS ON TANK TOP	3 1/4 RIVETS	7 1/2 RIVETS	
DEEP TANK BOLLER END	3 BOTTOM STRIPS	+ 10	

[illegible]

CENTRE LINE BHP.

PLATING - 30" DECK CONT 3x3/4"

TANK TOP CORNER 3 1/2 x 3 1/2 x 40"

STIFFENERS AS PER PROFILE & DECK PLAN

DOUBLE AT HATCH ENDS

STIFFENERS LUGGED TO TANK TOP

BRACKETED AT HATCH END

STEM	9 3/4" x 2 1/2"
STERNPOST	10 1/2" x 7 3/4"
RUDDERPOST	5" x 7 3/4"
RUDDER STOCK	10" DIA.

**KEEL & CENTRE GRIDER**

CENTRE GRIDER 42 1/2" x 55" FOR 1/2L to 45" IN IN 3 BUT 25" 7/8 IN2 SPAGNO 3/2 CR2

CENTRE GRIDER 42" SINGLE 31/2" x 43" - 625 8/5 SMALL 5/4 x 51 5/8 EN THIRST 5/4 7/8 IN2 & 3/4 CR2

CENTRE GRIDER 70" SINGLE 41 1/2" x 59" FOR 1/2L to 55" DOUBLE 7/8 5/4 61 1/2 EN 6/8 IN2 SPAGNO 7/8 4/5 CR2

CENTRE GRIDER BUILT UP CONNECTION 31/2" x 51/2" x 7/8 FOR 1/2L to 43" 7/8 IN2 31/2" x 43" 625 DOUBLE EN2 1/2 CR2

DOUBLE BARS FITTED PORE & CMT 7/8 IN2 @ 4 1/2 CR2 HERE IN2 ELIMINATE 7/8 IN2 6/8 CR2

KEEL PLATE 51/2" x 77" FOR 1/2L to 47 BUTS 45" to 35" 4/2 BUTS 1" x 61 & CR2 3/4 7/8 IN2 @ 3 1/2 CR2

NOT READING 7/8 IN2 7/8 IN2 3/2 EN2 THROUGHOUT 1/2 IN2 4/5 IN2

FRAME BRACKETS ETC.

FRAME EXTS	48" - 62" B.S. AND 54" IN. E.R.
OUTSIDE MARGIN ANGLE	51.5° 48" - 64" B.S. AND 52" IN. E.R. 13-7/8 RVS.
ANGLE GUSSETS ON EVERY FRAME	3/2" x 8 1/2" x 41" 6" x 48" E.R. 38" B.R.
INSIDE MARGIN ANGLE	51.31/2° x 43" - 60" B.S. AND 50" IN. E.R. 7-7/8 RVS.

SABLETON FLOORS	SPAN 5'-5"
FRAMES	7' x 3 1/2" x 43 B.A. - 59" IN B.S.
RIV FRAMES	7' x 3 1/2" x 36 B.A. - 52" IN B.S.
INT'L STRUTS	7' x 3 1/2" x 36 B.A. - 52" IN B.S. 3-7/8 RIS
STRUTS	11' x 3 1/2" x 46" - 62" IN B.S. 4-7/8 RIS
BRACKETS	6-7/8 RIS

BILGE RADIUS 4'0"  
RISE OF FLOOR 4"  
BILGE KEEL 12" x 44 BULB PLATE  
SHEEL CONT 6 x 4 x 50" TEE BAR

FRAME BRACKET AT FLAT TANK AFT.



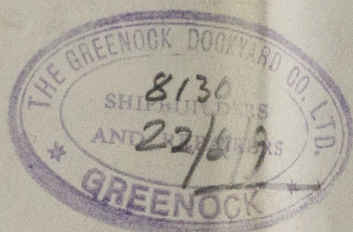
The Greenock Dock Co.

S. S. "BARRWHIN".

N. 417.

Ship's Section

(Amended)



Gr. R. Rept. N. 19106.

W148-0050



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