

Nos 150/161

## SHELL &amp; FRAMING EXPANSION.

SCALES ~ 1/4" = 1 FOOT &amp; AS MARKED.

APPROVED BY LLOYDS 251249

## NOTES.

DEAM KNEE DETAILS ARE SHOWN ON "MAIN DECK."  
 KNEES TO CREW PLAT BEAMS SHOWN ON "MAIN DECK."  
 SCUPPER DETAILS SHOWN ON "MAIN DECK."  
 FLOOR CONNECTIONS TO FRAMES SHOWN ON "KEEL & CENTRE GIBCO."

## RIVETTING

DR END LAPS 3/4 RIVS. 3" APART CR TO CR.  
 DR SEAMS 1/2 RIVS. 4" IN EACH SPACE EX-FRAME RIVS.  
 BULWARK END LAPS 3/4 RIVS. 3" APART CR TO CR.  
 BULWARK RAIL 3/4 RIVS. 4" - - - - -  
 HOLD FRAMES TO SHELL 3/4 RIVS. 5" - - - - -  
 BOTTOM FRAMES TO SHELL IN FORWARD 25 L 1/2 RIVS. 4" - - - - -  
 BOTTOM FRAMES ELSEWHERE 3/4 RIVS. 5" - - - - -  
 KEEL ANGLES TO SHELL 3/4 RIVS. 3" - - - - -  
 CREW PLAT ANGLES TO SHELL 3/4 RIVS. 4" IN EACH SPACE EX-FRAME RIVS.  
 STRINGER ANGLES TO SHELL 3/4 RIVS. 3" - - - - -  
 DRD BOUNDARY BARS TO SHELL 3/4 RIVS. 3" APART CR TO CR.  
 RUBBING BARS TO SHELL 3/4 RIVS. 5" - - - - - MAXIMUM.

SHELL PLATING 38 THROUGHOUT.  
 SEAMS THROUGHOUT. 4 1/2" D.R.  
 END LAPS THROUGHOUT. 5" D.R.

## CANT FRAMES.

DRAWN FOR FRAME AT 2'0" BUTTOCK (PORT).

SIMILAR AT 4'0" &amp; 6'0" BUTTOCKS.

## BILGE KEEL.

FOR FURTHER DETAILS OF  
 PLATING AT STERN,  
 SEE SHEET PLAN.

POSITIONS OF SIDELIGHTS  
 TO CREW SPACE (87 & 25)  
 TO BE ADDED AT SHIP.

STRINGER PLATE  
 DECK BUTT /

FOR DETAILS OF ANCHOR  
 POCKETS, SEE SEPARATE PLAN.

FOR FULL DETAILS OF PLATE  
 STEEL, SEE SEPARATE PLAN.

A.P. FLOORS (CLEAR OF W.T.B's) 12" x 26" PLATE. FLGD 2 1/2"

BOTTOM FRAMES 3" x 3" x 38" BA [5] - BA [26] (CLEAR OF W.T.B's)

FLOORS. 12" x 3 1/2" x 3/4" x 38" / 50" CHANNELS. (CLEAR OF W.T.B's) F [15] - F [88]

SIDE FRAMES, CLEAR OF W.T.B's, ALL 6" x 3" x 27" B.A's SPACED 24" APART. HEEL TO HEEL, THROUGHOUT.

BOTTOM FRAMES 3" x 3" x 38" BA [71] - BA [88] (CLEAR OF W.T.B's)

CLELANDS (Successors) LTD.  
 WALLSEND NORTHUMBERLAND.  
 DRAWN BY E.W.M.  
 NOV 12





CLELANDS (SUCCESSORS) LTD.

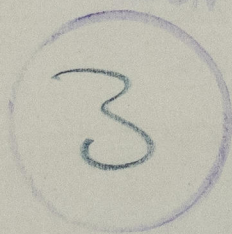
SHIP N<sup>o</sup> 158

'MANGAL' ★

SHELL & FRAMING EXPANSION. [AS ERECTED]

NEWCASTLE-ON-TYNE, No. 108227.

RECORDS DEPT.  
LONDON



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