

S.S. "EMPIRE VOICE" (AS BUILT)

Nº 677 & 678.

MIDSHIP SECTION

SCALE 1/2" = ONE FOOT

MOULDED DIMENSIONS 420'-0" x 57'-3 1/2" x 34'-6" TO UPPER D²

CLASS 100A1 LLOYDS WITH FREEBOARD CORRESPONDING

TO A SUMMER MOULDED DRAFT OF 25'-5"

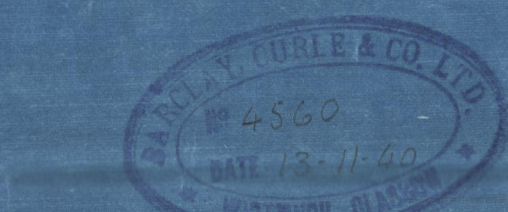
PLAN Nº 1A

L x D = 420.0 x 34.5 =	14490
L(B+D) = 420.0 x 91.79 =	38552
D =	34.5
4/D =	12.17 TO UPPER DECK.
4/D =	10.0 " BRIDGE.
d =	20.87' CLEAR OF MACHINERY SPACE.
d =	20.87' IN MACHINERY SPACE.

FRAME SPACING	
24" IN PEAKS	
27" FORWARD OF 1/2 L F. TO COLLISION BND	
30" ELSEWHERE	RULE = 30 1/4"

STEM = 10' x 2 3/8"
STERN POST = 10 1/4' x 8 1/4"
RUDDER POST = 10 1/4' x 8 1/4" } SEE
DETAIL PLAN.

EQUIPMENT TO RULE.



DOUBLE BOTTOM SCANTLINGS

ITEM.	1/2 L AMIDSHIPS.		AT ENDS		REMARKS.	ENGINE ROOM.	BOILER ROOM.
	RULE	AS FITTED	RULE	AS FITTED			
CENTRE GIRDER	43' x 53'	43' x 53'	43'	43'	LIGHTENING RIGID IN TWO END TANKS ONLY.	43' x 53'	43'
• TOP	32' x 32' x 47'	32' x 32' x 47'	43'	43'	DOUBLE ALL F.H.R.		55' CENTRE
• VERT.	32' x 32' x 43'	5' x 32' x 43'	43'	43'	SINGLE	5' x 32' x 43'	51'
SIDE GIRDERS			37'	37'			53'
• BOTTOM ANGLES	32' x 32' x 43'	32' x 32' x 43'	43'	43'	DOUBLE UNDER TACKY SEATS END.	32' x 32' x 43'	32' x 32' x 43'
• TOP	3' x 3' x 43'	3' x 3' x 43'	43'	43'		3' x 3' x 43'	5' x 3' x 43'
• VERT.	3' x 3' x 39'	5' x 3' x 39'	39'	39'	SOLID ON EVERY FRAME.	41'	51'
FLOORS			41'	41'	DOUBLE PLAT OF 1/2" PL OR 5/16" PL		41' CENTRE
• FRAMES	32' x 32' x 43'	32' x 32' x 43'	43'	43'	DOUBLE UNDER TACKY SEATS END.	32' x 32' x 43'	32' x 32' x 43'
• REV.	3' x 3' x 43'	32' x 3' x 43'	43'	43'	DOUBLE PLAT OF 1/2" PL OR 5/16" PL	32' x 32' x 43'	32' x 32' x 43'
W.T. FLOORS			49'	49'	AS PER TABLE 78.		59'
TANK MARGIN	32' x 32' x 43'	32' x 32' x 43'	43'	43'			59'
• SHELL ANGLE	32' x 32' x 43'	4' x 4' x 53'	53'	53'	DOUBLE PLAT OF 1/2" PL OR 5/16" PL	32' x 32' x 43'	32' x 32' x 43'
• VERT. OUTSIDE	6' x 6' x 43'	6' x 6' x 43'	43'	43'	DOUBLE PLAT OF 1/2" PL OR 5/16" PL	6' x 6' x 43'	6' x 6' x 43'
• INSIDE	6' x 6' x 43'	6' x 6' x 43'	43'	43'	DOUBLE PLAT OF 1/2" PL OR 5/16" PL	6' x 6' x 43'	6' x 6' x 43'
WING BRACKETS			44'	44'	3' x 3' x 43' WING BRACKETS		57'
TANK TOP C ² STRAKE	69' x 49'	69' x 49'	42'	42'	RULE 51 - 43'	57'	57'
• PLATING	43'	43'	39'	39'	1 - 15' UNDER MACHINERY	51'	57'

RIVETING

ITEM.	END LAPS		EDGE LAPS	
	1/2 L ENDS	1/2 L ENDS	1/2 L ENDS	1/2 L ENDS
KEEL	2	2	2	2
BOTTOM SHELL	3	2	2	2
SIDE	3	2	2	2
SHEERSTRAKE	3	2	2	2
STRAKE BELOW	3	2	2	2
BRIDGE SIDE PLATING	4	2		
CENTRE GIRDER	3	3		
MARGIN	3	3	1	1
TANK TOP CENTRE STRAKE	3	2	2	1
• PLATING	2	1	1	1
MAIN DECK STRINGER	2	2	1	1
• PLATING	2	1	1	1
UPPER STRINGER	2	1	1	1
• PLATING	2	1	1	1
BRIDGE STRINGER	3	1	1	1
• PLATING	2	1	1	1

SPACING OF RIVETS IN DOUBLE BOTTOM.

FRAMES: RIVETS IN BOTH FLANGES SPACED 7 DIAM ² C ² TO C ² .	
FORW ² OF 1/2 L F. RIVETS IN BOTH FLANGES SPACED 5 1/2 DIAM ² C ² TO C ² .	
REV. FRAMES: RIVETS IN BOTH FLANGES SPACED 7 DIAM ² C ² TO C ² (200' OF ENGINE ROOM).	
C ² GIRDER: BOTTOM ANGLES RIVETS IN BOTH FLANGES 5 DIAM ² C ² TO C ² .	
TOP	7 DIAM ² C ² TO C ²
VERT.	5 DIAM ² C ² TO C ²
SIDE GIRDERS VERT.	7 DIAM ² C ² TO C ²
TANK MARGIN SHELL ANGLE	4 1/2 DIAM ² C ² TO C ²

SPACING OF RIVETS IN SIDE FRAMES

SIDE FRAMES TO SHELL RIVETS SPACED 2 1/2 DIAM ² C ² TO C ² .	
IN PEAK TANKS AND IN WAY OF PAINTING 5 1/2 DIAM ² C ² TO C ² .	

UPPER DECK.

MAIN DECK.
[LLOYDS 2ND]

FOR SCANTLINGS OF BEAMS &
DECK PLATING SEE PLAN OF
PROFILE & DECK.

PLAN OF PILLARS & GIRDERS
TO BE SUBMITTED.

NO MANHOLE IN TANKS &
INTERS. UNDER PILLARS.
DOUBLE BOTTOM TO BE
EFFICIENTLY STIFFENED UNDER
PILLARS.

BOTTOM SHELL STRAKES 3 TO 5 1/2' FOR 1/2 L
TO 1/2 L AT ENDS STRAKES 3 TO 4 1/2' FROM
1/2 L F. TO RULE POSITION OF COLLISION BULKHEAD
STRENGTHENING OF BOTTOM FORWARD AS PER RULES.

Barclay Curle & Co^{ld}

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Empire Voice

Midship Section (As built)

Glasgow Report No:- 63091



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003263-003274-0153