

S.S. EMPIRE. GERAIN.**MIDSHIP SECTION.**SCALE: $\frac{1}{2}$ " = ONE FOOT.

TO CLASS 100 A.I. WITH FREEBOARD AT LLOYDS SPECIAL SURVEY.

DIMENSIONS: ~ 425'-0" B.P. ON L.W.L. x 56'-0" M^D 56'-3" EXT. x 27'-9" NORMAL SHEER MLD TO 2'-0" DK 37'-6" FLAT SHEER MLD TO UPPER DK**LLOYDS NUMERALS TO NORMAL SHEER**

FIRST LONGITUDINAL NUMBER L x D = 425'-0" x 35'-75"	= 15193.75
SECOND LONGITUDINAL NUMBER L x (B+D) = 425'-0" x (56'-0" + 35'-75")	= 38993.75
D TO UPPER DECK = 425'-0" x 36'-75"	= 11.27
D MOULDED DEPTH = 27'-75" + 8'-0"	= 35.75
D = 36'-75" - (9'-0" + 3'-75") - CREDIT FOR DEEPER KNEES & FRAME BRACKET = 23.3	

EQUIPMENT NUMBER

SECOND LONGITUDINAL NUMBER L x D = 425'-0" x (56'-0" + 36'-75")	= 39418.75
FORECASTLE = 40'-0" x 7'-5" x $\frac{3}{4}$ "	= 225.00
MIDSHIP ACCOMMODATION & CASING = 72'-25" x 8'-0" x $\frac{1}{2}$ "	= 289.00
SALOON ACCOMMODATION = 80'-0" x 8'-0" x $\frac{1}{2}$ "	= 120.00
EQUIPMENT NUMBER	= 40052.75

EQUIPMENT

- 2 BOWER ANCHORS 68 CWTs EACH STOCKLESS
1 STEER ANCHOR 19 CWTs EX-STOCK
270 FATHOMS 2" STUD CHAIN CABLE TAYCO
90 FATHOMS 1 $\frac{1}{2}$ " STEER CHAIN OR 5' FLEXIBLE STEEL WIRE 6"x12"
120 FATHOMS 4 $\frac{3}{4}$ " SPECIAL FLEXIBLE STEEL WIRE 6"x24"
2 HAWSERS 90 FATHOMS 8' HEMP OR 2 $\frac{3}{4}$ " FLEXIBLE STEEL WIRE 6"x12"
2 WARPS 90 FATHOMS 7' HEMP OR 2 $\frac{1}{2}$ " FLEXIBLE STEEL WIRE 6"x12"

RIVETING NOTE.

RIVETS IN FRAMES TO FLOORS AND CROSS TIE PLATES IN AFT PEAK SPACED 5 DIAS APART CR TO CR
RIVETS IN FRAMES TO SHELL AT PLAT OF DOUBLE BOTTOM FOR HALF LENGTH FOR SPACED 5 $\frac{1}{2}$ DIAS (TWO COMPLETE ROWS)
RIVETS IN FRAMES TO FLOORS AT PLAT OF DOUBLE BOTTOM FOR HALF LENGTH FOR SPACED 6 $\frac{1}{2}$ DIAS (TWO COMPLETE ROWS)
RIVETS IN SIDE FRAMES TO SHELL SPACED 6 $\frac{1}{2}$ DIAS APART, 5 $\frac{1}{2}$ DIAS APART IN WAY OF FORE & AFT PEAK TRUNKS AND DEEP FRAMING FOR
RIVETS IN BOTTOM FRAMES TO SHELL AFT HALF LENGTH FOR SPACED 7 DIAS APART CR TO CR
RIVETS IN 3A BUTTS OF OUTSIDE PLATING AND OF DECK STRINGER PLATES SPACED 3 $\frac{1}{2}$ DIAS APART CR TO CR
RIVETS IN 4A BUTTS OF OUTSIDE PLATING AND OF DECK STRINGER PLATES SPACED 4 DIAS APART CR TO CR
RIVETS IN SERIES OF SHELL PLATING, DECK PLATING AND INNER BOTTOM PLATING AS PER TABLE 40.
RIVETS IN BUTTS OF DECK PLATING, INNER BOTTOM & MARGIN PLATING SPACED 4 DIAS APART CR TO CR
RIVETS IN SERIES & BUTTS OF BULKHEAD AND TUNNEL PLATING, MARGIN ANGLES AND WEATHER DECK STRINGER ANGLES AND BULKHEAD FRAME TO BULKHEAD SPACED 4 $\frac{1}{2}$ DIAS APART CR TO CR
RIVETS IN PLAT KEEL ANGLES, VERTICAL ANGLES CONNECTING FLOORS TO CENTRE GIRDER AND SHELL PLATE OR NOTIFICATION
RIVETS IN FRAMES TO FLOORS AFT HALF LENGTH FOR REVERSE FRAMES TO FLOORS AND INNER BOTTOM PLATING
VERTICAL ANGLES TO FLOORS AND SIDE BULKHEADS, IN BULKHEAD STIFFENERS (EXCEPT PEAK BULKHEADS) AND IN DECK PLATING
TO BEING ON EVERY FRAME SPACED 7 DIAS APART CR TO CR
RIVETS IN CENTRE GIRDER TOP ANGLES SPACED 7 DIAS APART CR TO CR AND WATERWIGHT.
RIVETS IN CENTRE GIRDER TOP ANGLES SPACED 5 DIAS APART CR TO CR WATERWIGHT.

THE SCANTLINGS OF ANGLE AND BULB ANGLE SECTIONS
GIVEN ON THIS PLAN ARE N.B.S.

FOR STEM, STERNPOST AND RUDDER-POST

SEE SEPARATE PLANS.

LIST OF ALTERNATIVE AMERICAN SECTIONS
WITH CORRESPONDING N.B.S. EQUIVALENTS

N.B.S.	ALTERNATIVE AMERICAN
12" x 3 $\frac{1}{2}$ " x $\frac{3}{4}$ " BA	12" x 50' x 3 $\frac{1}{2}$ " x 80.9 LBS CHANNEL
12" x 3 $\frac{1}{2}$ " x $\frac{3}{4}$ " BA	12" x 60' x 3 $\frac{1}{2}$ " x 87.1 LBS CHANNEL
12" x 3 $\frac{1}{2}$ " x $\frac{3}{4}$ " BA	12" x 45' x 3 $\frac{1}{2}$ " x 30.9 LBS CHANNEL
12" x 3 $\frac{1}{2}$ " x $\frac{3}{4}$ " BA	12" x 45' x 3 $\frac{1}{2}$ " x 30.9 LBS CHANNEL
8" x 3 $\frac{1}{2}$ " x $\frac{3}{4}$ " BA	8" x 3 $\frac{1}{2}$ " x 46' BA
9" x 3" x $\frac{3}{4}$ " BA	9" x 3 $\frac{1}{2}$ " x 88' BA
6" x 3" x $\frac{3}{4}$ " BA	6" x 3 $\frac{1}{2}$ " x 16' BA
6" x 3" x $\frac{3}{4}$ " BA	6" x 3" x 46' BA
7 $\frac{1}{2}$ " x 3" x $\frac{3}{4}$ " BA	8" x 3" x 34' BA
7 $\frac{1}{2}$ " x 3" x $\frac{3}{4}$ " BA	8" x 3" x 34' BA
8" x 3" x $\frac{3}{4}$ " BA	8" x 3" x 52' BA
7" x 3" x $\frac{3}{4}$ " BA	7" x 3" x 38' BA
7" x 3" x $\frac{3}{4}$ " BA	7" x 3" x 38' BA
8" x 3" x $\frac{3}{4}$ " BA	8" x 3" x 46' BA
7" x 3" x $\frac{3}{4}$ " BA	7" x 3" x 46' BA

**FORECASTLE**

STRINGER PLATE 35" x 36" BUTTS 1R
STRINGER ANGLE 8 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " x 36"
DECK PLATING 32" UNSHEATHED
BUTTS LAPPED 1R
SIDE PLATING 40 BEAMS & BUTTS 1R
BEAMS ON EVERY FRAME AS PER
PROFILE & DECK PLAN.

"K" OUT & IN

77 $\frac{1}{2}$ " x 73" FOR 1/2 L X
TO 46" AT ENDS BUTTS LAPPED & 4R
FOR 1/2 L X TO 3R AT ENDS.

"J" IN

83 $\frac{1}{2}$ " x 65" FOR 1/2 L X
TO 46" AT ENDS
BUTTS LAPPED & 3R.

"H" OUT

83 $\frac{1}{2}$ " x 65" FOR 1/2 L X
TO 45" AT ENDS
BUTTS LAPPED & 3R.

"G" IN

83 $\frac{1}{2}$ " x 40" FOR 1/2 L X
TO 45" AT ENDS
BUTTS LAPPED & 3R.

"F" OUT

83 $\frac{1}{2}$ " x 60" FOR 1/2 L X
TO 45" AT ENDS
BUTTS LAPPED & 3R.

"E" IN

77 $\frac{1}{2}$ " x 64" FOR 1/2 L X
TO 50" AT ENDS
INSIDE STRIPS 4R

MARGIN PLATE 35" x 36" x 60" IN B.S.
BUTTS LAPPED & 3R THROUGHOUT
MARGIN ANGLE 3 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " x 64" TO 50"
LUGS TO FRAMES BRACKETED 4R

FLOOR ENDS 6" x 6" x 44" BULB END 5' 6" RLS
INSIDE STRIPS 4R

SPECIAL PLAN STRENGTHENING OF BOTTOM FORWARD
TO BE SUBMITTED LATER.

Messrs. Chas. Bonnell & Co. Ld

Yard. No. 439

Midship Section
(as built)

"Empire Geraint (Sister to Empire Murdered)
(Glas. Reg. 65950)

GLASGOW REPORT No. 66447

Oregon Star

N/
H. CAPTAIN ANNIS

003038-003045-0036



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