

LYON'S NUMERALS

FIRST LONGITUDINAL NUMBER $L(X) = 425.0 \times 35.75$	=	15193.75
SECOND LONGITUDINAL NUMBER $L(Y) = 425.0 \times (56.0 - 35.75)$	=	38993.75
$\frac{1}{2}$ TO UPPER DECK = 425.0×36.75	=	11.85
D MOULDED DEPTH = $27.75 + 8.0$	=	35.75
$d = 27.75 - (3.74 \times .3 \text{ FOR HIGHER BKT} + .6 \text{ FOR DEEP KNEE})$	=	23.40
$\frac{1}{2}$ AT HALF LENGTH FORWARD	=	26.29

EQUIPMENT

2 BOWER ANCHORS 68 CWTs EACH STOCKLESS.
1 STREAM ANCHOR 19 CWTs EX- STOCK

RULE 270 FATHOMS 225 FATHOMS 2 $\frac{1}{4}$ " STUD CHAIN CABLE 600 CWTs.
30 FATHOMS 1 $\frac{3}{4}$ " STREAM CHAIN OR 3" FLEXIBLE STEEL WIRE 6'X12"
120 FATHOMS 4 $\frac{3}{4}$ " SPECIAL FLEXIBLE STEEL WIRE 6'X24"
2 HAWSEYS 30 FATHOMS 8 HEMP OR 2 $\frac{3}{4}$ " FLEXIBLE STEEL WIRE 6'X12"
2 WADPS 30 FATHOMS 7 HEMP OR 2 $\frac{1}{2}$ " FLEXIBLE STEEL WIRE 6'X12"

IN THE EVENT OF SCARCITY OF LABOUR
ELECTRIC WELDING WOULD BE ADOPTED
WHERE EVER PRACTICABLE

RIVETS IN FRAMES TO FLOORS AND CROSS TIE PLATES IN APEAK SPACED 5 DIAMS APART CR TO CE.
 RIVETS IN FRAMES TO SHELL AT FLAT OF DOUBLE BOTTOM DEEP HALF LENGTH FORD SPACED 5 1/2 DIAMS (TWO COMPLETE ROWS)
 RIVETS IN FRAMES TO FLOORS AT FLAT OF DOUBLE BOTTOM FORD HALF LENGTH FORD SPACED 5 1/2 DIAMS (TWO COMPLETE ROWS)
 RIVETS IN SIDE FRAMES TO SHELL SPACED 5/2 DIAMS APART 5 1/2 DIAMS APART IN WAY OF FORD & AFT PEAK
 TANKS AND DEEP FRAMING FORD
 RIVETS IN BOTTOM FRAMES TO SHELL AFT HALF LENGTH FORD SPACED 7 DIAM APART CR TO CE.
 RIVETS IN 3.R BUTTS OF OUTSIDE PLATING AND OF DECK STRINGER PLATES SPACED 3 1/2 DIAMS APART CR TO CE.
 RIVETS IN 4.R BUTTS OF OUTSIDE PLATING AND OF DECK STRINGER PLATES SPACED 4 DIAMS APART CR TO CE
 RIVETS IN BERMS 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 DIAMS APART CR TO CE.
 RIVETS IN BERMS & BUTTS OF BULKHEAD AND TUNNEL PLATING MARGIN ANGLES AND WEATHER DECK STRINGER
 ANGLES AND BULKHEAD FRAMES TO BULKHEAD SPACED 5/2 DIAMS APART CR TO CE.
 RIVETS IN FLAT KEEL ANGLES VERTICAL ANGLES CONNECTING FLOORS TO CENTRE GIDDER AND SHELL FLANGE
 OF WATERTIGHT BULKHEAD FRAMES SPACED 5 DIAMS APART CR TO CE.
 RIVETS IN FRAMES TO FLOORS AFT HALF LENGTH FORD REVERSE FRAMES TO FLOORS AND INNER BOTTOM PLATING
 VERTICAL ANGLES TO FLOORS AND SIDE GIDDEES IN BULKHEAD STIFFENERS (EXCEPT PEAK BULKHEAD) AND
 IN DECK PLATING TO BERMS ON EVERY FRAME SPACED 7 DIAMS APART CR TO CE.
 RIVETS IN CENTRE GIDDER TOP ANGLES SPACED 7 DIAMS APART CR TO CE NON - WATERTIGHT.
 RIVETS IN CENTRE GIDDER TOP ANGLES SPACED 5 DIAMS APART CR TO CE WATERTIGHT.

CENTRE GIDER
43 1/4" x .54" FOR 1/2 LEN Ø .46" AT ENDS
.62 IN BOILER SPACE BUTTS LAPPED & 3 E.
VERTICAL ANGLES 3 1/2 x 3 1/2 x .437 SINGLE - .54 B.S.
5" x 5" x .44 SINGLE UNDER ENGINE SPACE & THRUST
SEATING 5" x 5" x .54" UNDER BOILER BEARERS.

TANK TOP CENTRE STAKE TO KULE 83' 52" FOR 1/2 LEN &
TO 44" AT ENDS 52" IN ENGINE SPACE 58" IN BOILER SPACE
FITTED 83' 50" FOR 1/2 LEN & TO 43" AT ENDS
52" IN E.S. 58" IN B.S. BUTTS LAPPED & 3" TO 2.2 AT ENDS


CENTRE GIRDER TOP ANGLES 3 1/2 x 3 1/2 x 48" DOUBLE
FOR 1/2 LENGTH TO 44" AT ENDS - 58" B.S.

FLOOR PLATES .42" THROUGHOUT IN HOLDS & ENGINE SPACE .52" IN
BOILER SPACE. WATERTIGHT FLOORS .42" OR .50" WITH STIFFERS
6" 3 1/2" X 375 O.A. SPACED 30" APART FOR OVERFLOW 34.3" ABOVE TANK TOP.

WING BRACKETS .44" .54 IN B.S.
MARGIN CONNECTION G X G X .44 SINGLE .54 IN B.S.
WITH 18 - 7/8 RIVETS EACH FLANGE & 42 GUSSET PLATE
ON EVERY FRAME .52" IN B.S. WITH 5 - 7/8" RIVETS.
IN WAY OF DEEP FRAMING G X G X .44 SINGLE WITH
18 - 7/8 RIVETS EACH FLANGE & 42 GUSSET PLATE.

30 TH CONT WELD IN WAY
OF DEEP FERRING and
Continuous Juxct

3 - 3/4" 30 TH INTERN I
WELDS ON TOP
BUT NOT IN
CONNECTION WITH



OF CEILING. 15 GUSSET PLATES 15
UNDER SEAT STOPS IN FRONT SPACE & THRU SEAT TO BEYOND
INTERCOSTAL SEAT

5' x 5' - 4' 6" SINGLE FOLD - HALF LENGTH FOLD

"C" CLINKER. "D" IN.

FORECASTLE
STRINGER PLATE .36" BUTTS 1 R
STRINGER ANGLE 3/8" X 3/2" X .36"
DECK PLATING 32 UNSHEATHED
BUTTS LAPPED & 1 R
SIDE PLATING 40 BEAMS & BUTTS 1 R
BEAMS ON EVERY FRAME AS PER
PROFILE AND DECK PLAN.

"K" OUT.
58" x 65" FOR 1/2 LEN &
TO .46" AT ENDS. BUTTS LAPPED &
4R FOR 1/2 LEN & TO 3R AT ENDS.

"J" IN.
76" x 65" FOR 1/2 LEN. ϕ
TO 46" AT ENDS
BUTTS LAPPED & 3 R.

"H" OUT.
76" x 65" FOR 1/2 LEN. &
TO .46" AT ENDS
BUTTS LAPPED & 3.R.

" F " CLINKER.
76 1/2" X 65" FOR 1 1/2 LEN. &
TO 46" AT ENDS
BUTTS LAPPED & 3.R.

LITHGOWS LTD

N2969-70

Y3 Type

MIDSHIP SECTION

Y4 Type

971/2 - 3/10/41

973/6 - 24/10/41

977/8 - 14/11/41

979 - 8/1/42

980-81 - 14/1/42

N.N. FRINTON

NN. APTJ USHA

EX FAIRWATER X

EX FREECREST

Yard No. / Name First Entry Ret. No.

969	"EMPIRE AUSTEN"	21837
970	"EMPIRE GALAHAD"	21915
971	"EMPIRE LANCER"	22036
972	"EMPIRE PENNANT"	22115
973	"COULCORN"	22116
976	"CAPE HOWE"	22190
977	"EMPIRE TREASURE"	22243
978	"EMPIRE BEATRICE" (MARY K)	22284
979	"EMPIRE BUCKLER"	22309
980	"EMPIRE PIBROCH"	22347
981	"EMPIRE FALSTAFF"	22342
982	"EMPIRE SERVICE"	22374
990	"EMPIRE FLORIZEL"	22357

w/s
681

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